



GARMIN®

2023 } MARINE
CATALOG

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GARMIN MARINE FAMILY

GARMIN®

AT GARMIN WE STRIVE TO MAKE THE BEST PRODUCTS FOR EVERYTHING YOU DO ON THE WATER. THESE BRANDS ARE PART OF THE GARMIN FAMILY BECAUSE THEY REPRESENT THE STRONGEST AND BEST OF WHAT THEY DO.

BRAND FAMILY

FUSION®

A Garmin Brand

MARINE ENTERTAINMENT

FUSION® ENTERTAINMENT IS WORLD-RENOUNDED FOR ENGINEERING INNOVATIVE AUDIO SOLUTIONS THAT ARE ENJOYED AROUND THE GLOBE BY THE MOST PRESTIGIOUS BOAT DESIGNERS AND MANUFACTURERS.

NAVIONICS®

A Garmin Brand

CARTOGRAPHY

NAVIONICS® PROVIDES DETAILED MARINE CHARTS AND LAKE MAPS FOR MOST CHARTPLOTTERS, BOTH THROUGH ITS OWN BRANDED PRODUCTS AND WITHIN GARMIN NAVIONICS+™ AND PREMIUM GARMIN NAVIONICS VISION+™ CARTOGRAPHY FOR GARMIN DEVICES.

EmpirBus

A Garmin Brand

DIGITAL INTEGRATIONS

EMPIRBUS™ BRINGS ALL THE POWER AND CONVENIENCE OF ADVANCED HOME AUTOMATION TO YOUR VESSEL, ALLOWING YOU TO CONTROL AND MONITOR ALL ONBOARD ELECTRONIC SYSTEMS FROM YOUR GARMIN CHARTPLOTTER OR MFD.

vesper

A Garmin Brand

VHF AND SMARTAIS TECHNOLOGY

WITH ALMOST 15 YEARS OF EXPERIENCE, VESPER™ HAS DEVELOPED A SUITE OF COMMUNICATION PRODUCTS AND SOLUTIONS FOR POWER, SAIL AND WORKBOATS, INCLUDING THE AWARD-WINNING CORTEX® SYSTEM. CORTEX COMBINES A STATE-OF-THE-ART VHF RADIO WITH VESPER'S UNIQUE SMARTAIS® TRANSPONDER AND REMOTE VESSEL MONITORING TECHNOLOGY.

SONAR TECHNOLOGY



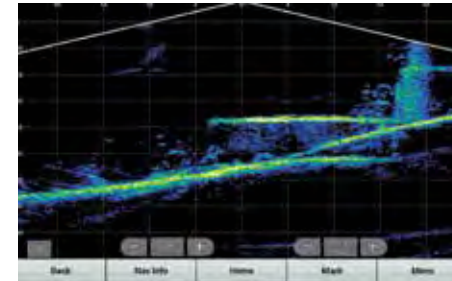
LIVESCOPE™ PLUS

The best of the best just got better with the LiveScope Plus System. Offering improved resolution, reduced noise, clearer images and better target separation, it features built-in stabilization to keep the sonar image steady on your compatible chartplotter, even in rough conditions. Now it's easier than ever to see structure, bait and fish swimming around your boat in real time.

Part no: 010-02706-00 LVS34

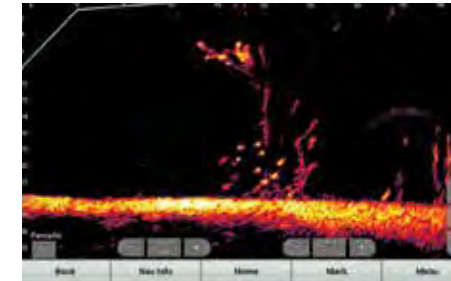
THREE MODES IN ONE TRANSDUCER

LIVESCOPE™ PLUS DOWN MODE



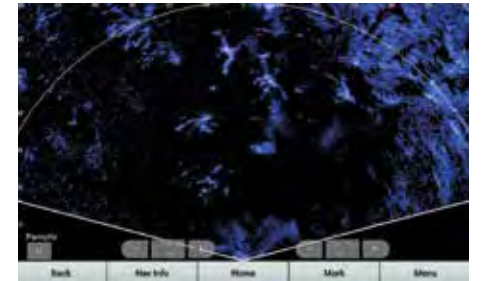
View live, easy-to-interpret scanning sonar images of structure and swimming fish in incredible detail below your boat.

LIVESCOPE™ PLUS FORWARD MODE



Scout ahead of your boat to see what's happening in real time by scanning sonar images of structure and fish up to 200' away.

LIVESCOPE™ PLUS PERSPECTIVE MODE



An ideal sonar mode for shallow water, this mode lets you see under the water with a view from your perspective above the water.

LIVESCOPE™ PLUS SCANNING SONAR SYSTEM

Part no: 010-03228-00 includes Perspective Mode Mount; 010-13228-01 includes Trolling Motor Barrel Mount; 010-13228-02 includes 8-Degree Pole Mount



Includes a compact GLS™ 10 sonar black box with LVS34 transducer and a simple plug-and-play Garmin Marine Network connector to install easily and integrate seamlessly with your compatible Garmin chartplotter¹. With support for Forward, Down and Perspective mode views, now it's easier than ever to see the structure, bait and fish around your boat in real time. Available with Perspective Mode Mount, trolling motor barrel mount and shaft mount options.

LIVESCOPE™ PLUS LVS34 TRANSDUCER

Part no: 010-02706-10



Easily upgrade your current LiveScope system black box (GLS 10 sonar module) with a new LVS34 transducer. Don't miss a thing with supported forward, down and perspective mode views and necessary mount.

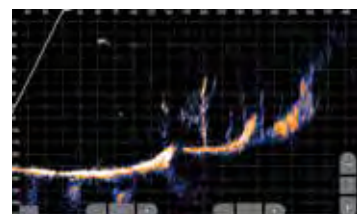
¹Compatible with GPSMAP® 8400/GPSMAP 8600 chartplotter series, GPSMAP® x2 Plus, GPSMAP® x3, ECHOMAP™ Ultra combo, ECHOMAP™ UHD 7" and ECHOMAP™ UHD 9"

LIVESCOPE™ XR SYSTEM

You didn't think it could get better, but it did with the extended range of the LiveScope™ XR System. It's the latest in LiveScope technology, now for coastal and open-water fishing. The XR transducer offers live scanning sonar up to 350' in saltwater and up to 500' in freshwater in three modes. Adjust the transducer to fit where you fish; use LiveScope™ Forward mode to see around your boat, LiveScope™ Down mode to see directly below your boat and Perspective mode for an overhead sonar view that's perfect for scouting open water or shorelines.

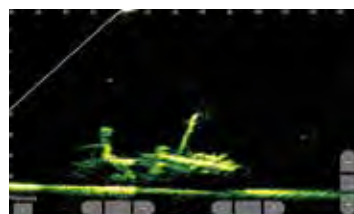


LOOK DEEPER



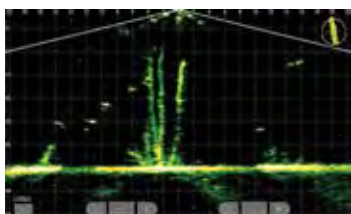
Explore the deep with extended-range, live-scanning sonar depths up to 500' in Freshwater and 350' in Saltwater.

TAKE A CLOSE VIEW



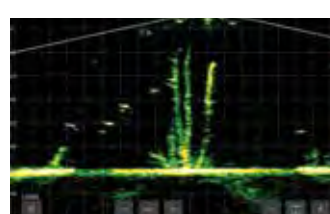
Find fish circling close to your boat. Compress range gives you clear views of waters around your hull.

IMAGE STABILIZATION



A built-in stabilization system keeps the sonar image steady on your compatible chartplotter, even in rough conditions.

VIVID COLOR PALETTES



Choose from seven vivid color options to see fish and structure with maximum contrast and clarity.



LIVESCOPE™ XR LVS62 TRANSDUCER

010-02719-10

Want to optimize your existing LiveScope sonar's GLS™ 10 black box for coastal and open-water fishing? Just add the LVS62 transducer to your setup. Get all the detail and clarity your system is built to deliver.

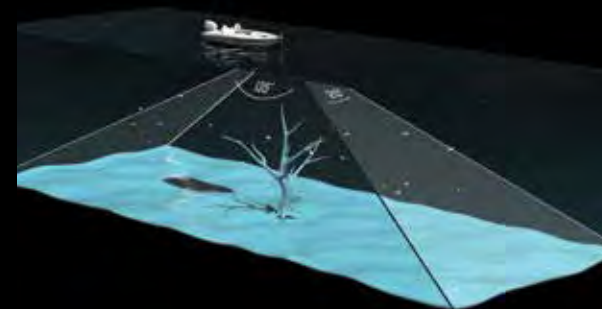
LIVESCOPE™ XR SONAR SYSTEM

010-02719-00

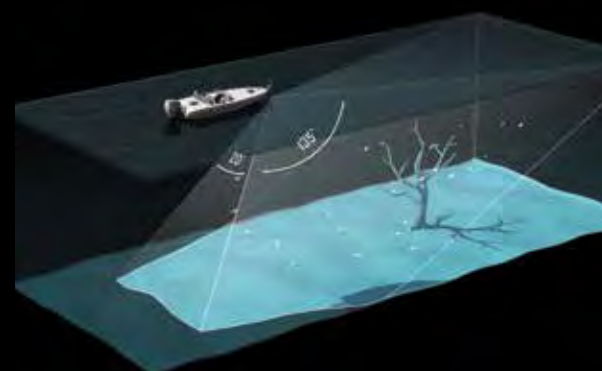
Includes a compact GLS™ 10 sonar black box with LVS62 transducer and offers easy installation with a plug-and-play Garmin Marine Network connector for seamless integration with your compatible Garmin chartplotter*. Now it's easier than ever to see the structure, bait and fish around your boat — in real time — with support for forward, down and perspective mode views.



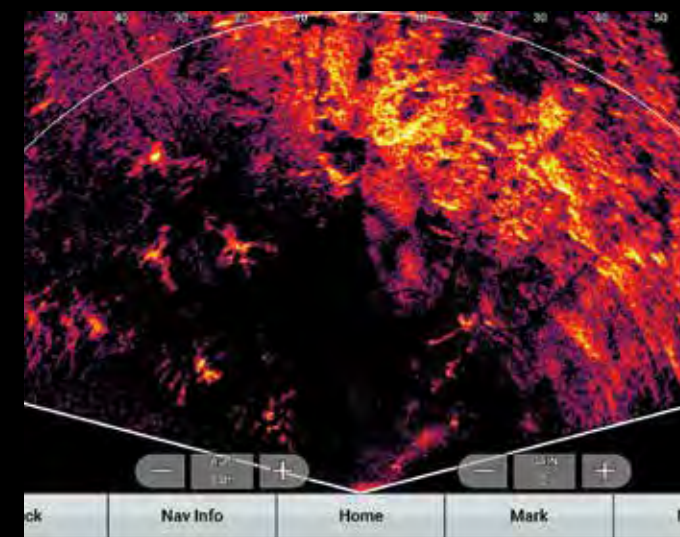
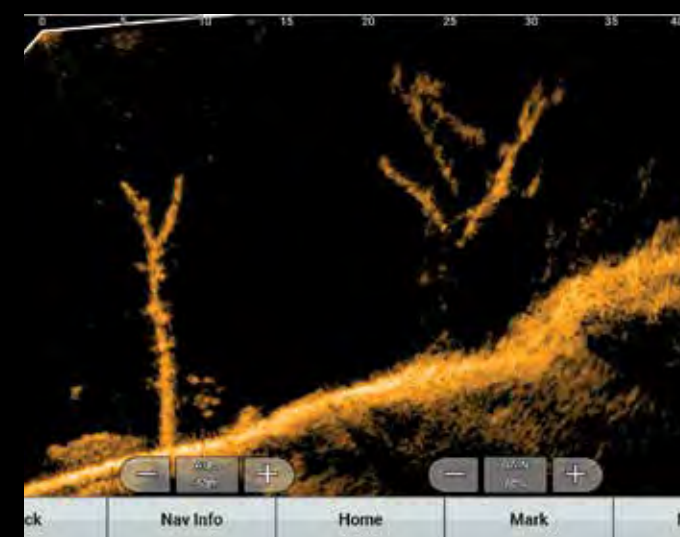
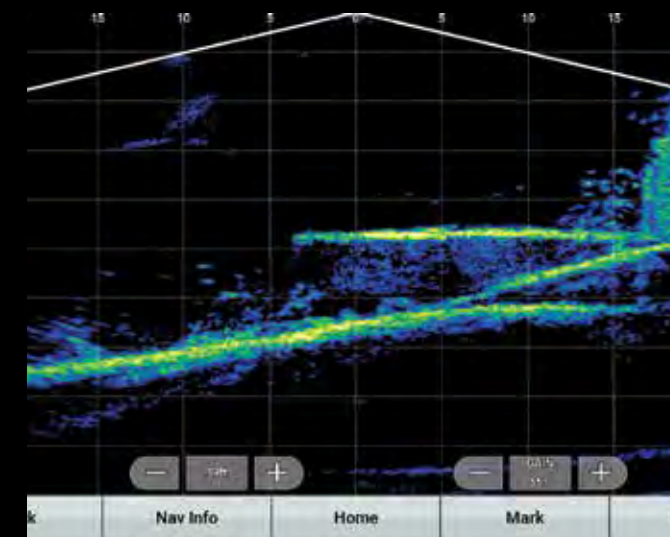
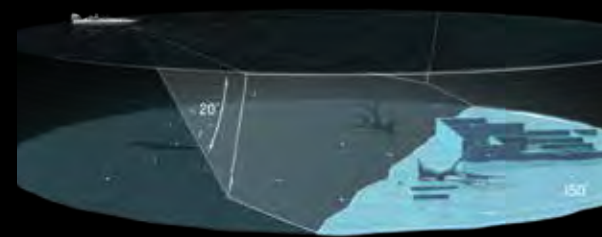
LIVESCOPE™ DOWN



LIVESCOPE™ FORWARD



LIVESCOPE™ PERSPECTIVE MODE



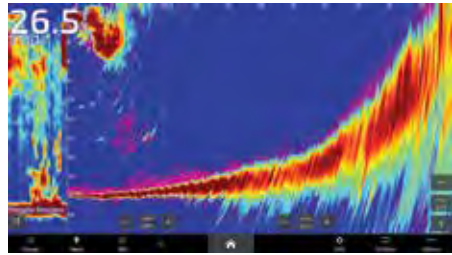
PANOPTIX™ ALL-SEEING SONAR

Panoptix sonar is opening up a new world for serious anglers. It makes it possible to see fish and bait swimming, in real time, around or under your boat — even when the boat is not moving.

PANOPTIX FORWARD

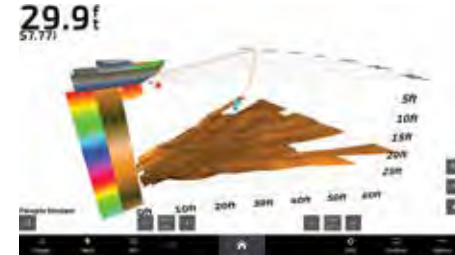
Includes three forward views: LiveVü™ Forward, RealVü™ 3D Forward and FrontVü™.

LIVEVÜ FORWARD



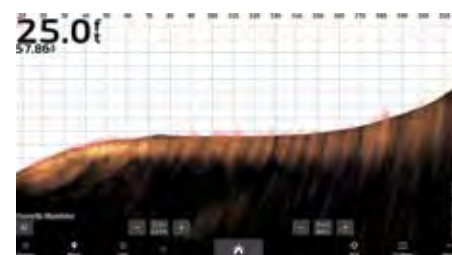
Provides a live sonar look at fish swimming and moving toward or away from the boat. Cast right at fish. See your lure. See fish react to your lure. See and feel the strike.

REALVÜ 3D FORWARD



Scans the area in front of your boat, creating a forward-looking 3D view of the bottom, structure and fish¹.

FRONTVÜ

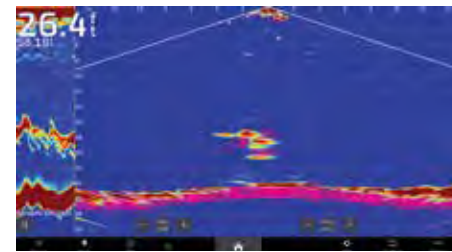


To help give you time to avoid collisions² with submerged obstacles, FrontVü shows underwater obstructions within a 300' range as you approach them in real time.

PANOPTIX DOWN

Includes three downward views: LiveVü Down, RealVü 3D Historical and RealVü 3D Down.

LIVEVÜ DOWN



Shows real-time moving sonar images of small baitfish and large target fish swimming below your boat and pinpoints their distance left or right and their depths.

REALVÜ 3D HISTORICAL



Scrolls through sonar data as the boat moves to show the history of the entire water column from the bottom to the surface and all the fish in between.

REALVÜ 3D DOWN



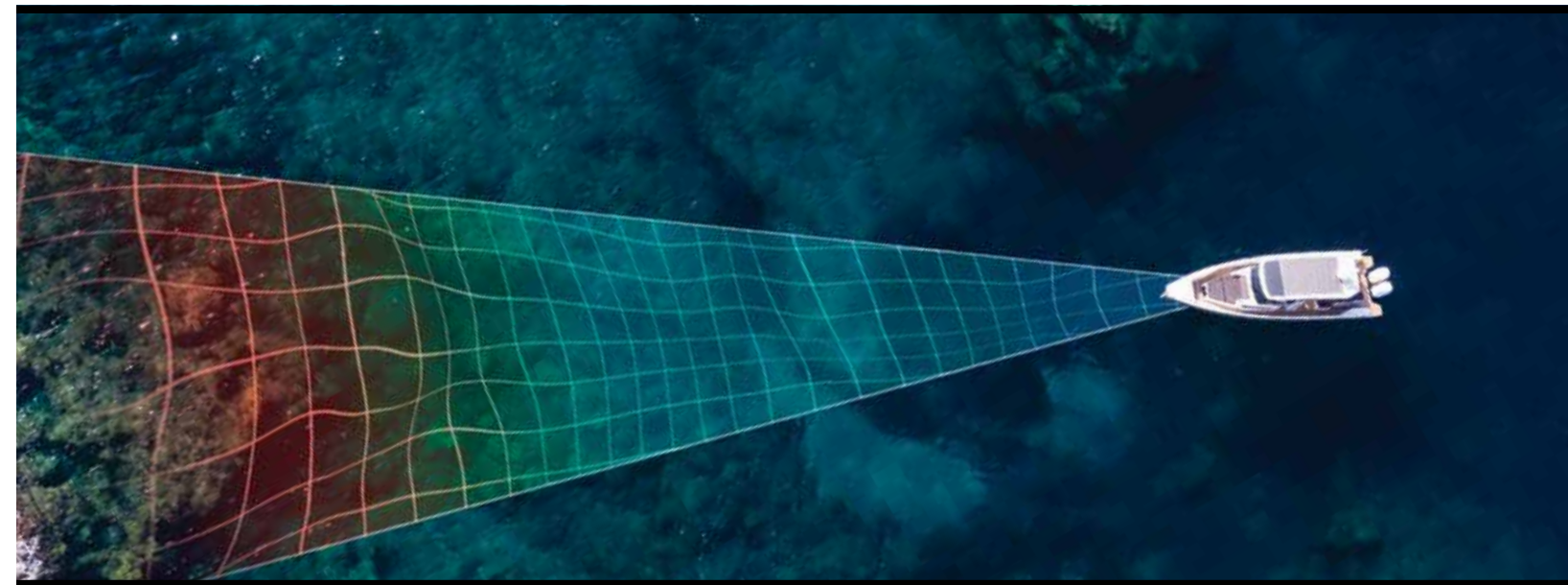
Scans below the boat — front to back and side to side — to construct a full 3D view of the area under the boat, letting you see contour changes, fish and structure, even while stationary.

PANOPTIX™ ALL-SEEING SONAR

PANOPTIX FRONTVÜ™ SONAR



Multibeam thru-hull transducer with premium FrontVü forward-looking sonar helps you avoid running aground¹ by displaying the bottom ahead of your boat in real time on your chartplotter. It also includes LiveVü™ Forward sonar to show you fish — even divers — swimming in real time under and ahead of your boat with a 300' forward range.



THE LINEUP

	PS21-TM 010-01588-01	PS22-TR 010-01945-00	PS30 010-01284-00	PS31 010-01284-01	PS51-TH 010-01753-00	PS60 010-01406-00
RealVü 3D Down			•			•
RealVü 3D Historical			•			•
LiveVü Down		•	•			•
RealVü 3D Forward				•		
LiveVü Forward	•	•		•	•	
FrontVü Forward	•	•		•	•	
Independent Power Connection	•	•	•	•	•	•
Transom Mount Included	• ¹		•	• ²		
Trolling Motor Mount Included		•		•		
Thru-Hull Mount and Fairing Block					•	•

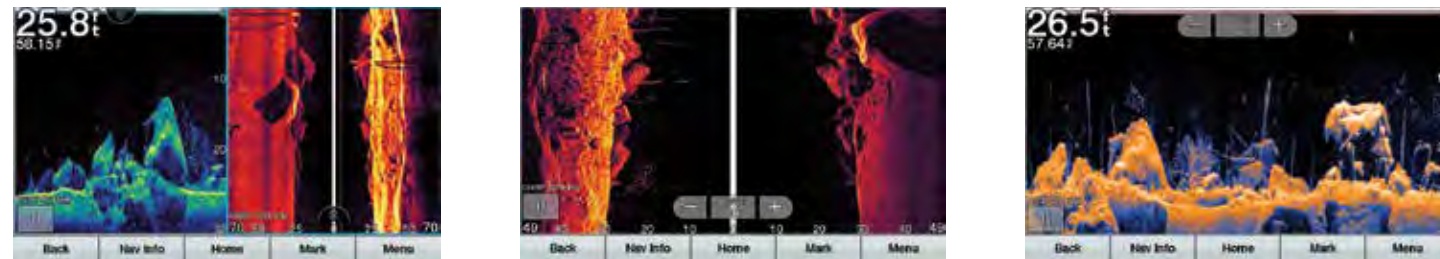
¹The forward-facing transom mount should be mounted in a location that is out of the water as speeds over 17 knots. If located below the waterline, cruising speeds over 21 knots should be avoided. • ²The ability to effectively avoid running aground with FrontVü sonar decreases as speed rises above 8 knots

¹The ability to effectively avoid running aground with FrontVü sonar decreases as speed rises above 8 knots. • ²The forward-facing transom mount should be mounted in a location that is out of the water as speeds over 17 knots. If located below the waterline, cruising speeds over 21 knots should be avoided

ULTRA HIGH-DEFINITION SCANNING SONAR

SEE EVERYTHING

Clarity and detail are redefined with the Ultra High-Definition scanning sonar system. It delivers greater resolution by putting more power on targets with a higher frequency range than conventional marine sonar technologies.



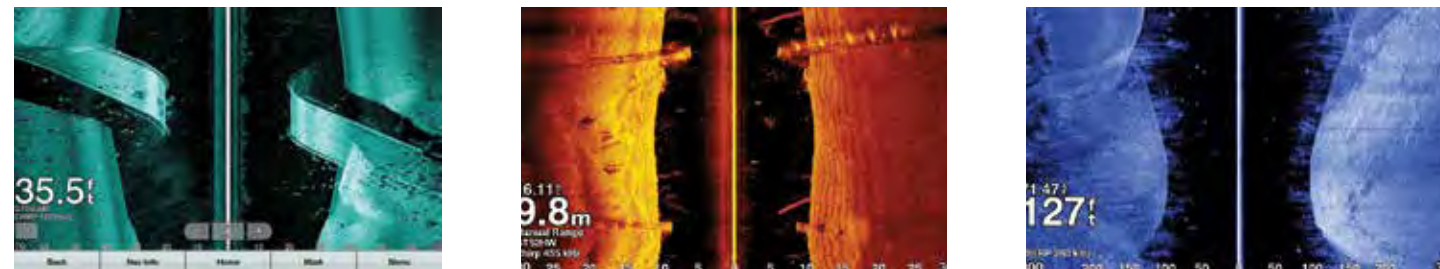
UHD CLEARVÜ

ClearVü is high-frequency sonar that delivers an amazingly clear picture of what's under your boat. ClearVü produces an ultra-clear image for a more detailed representation of objects, structure and fish.



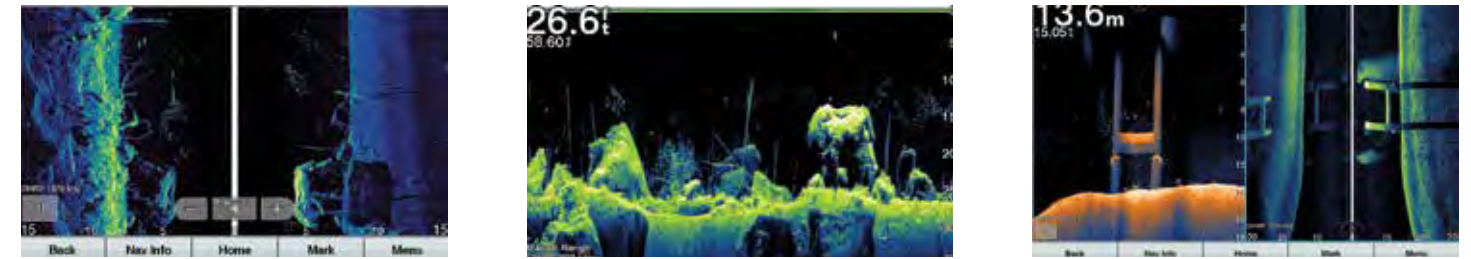
UHD SIDEVÜ

SideVü provides a highly detailed, high-resolution image of structure and fish off to either side of your boat. It's excellent for scouting, finding fish and the right types of structures for successful fishing.



VIVID COLOR PALETTE

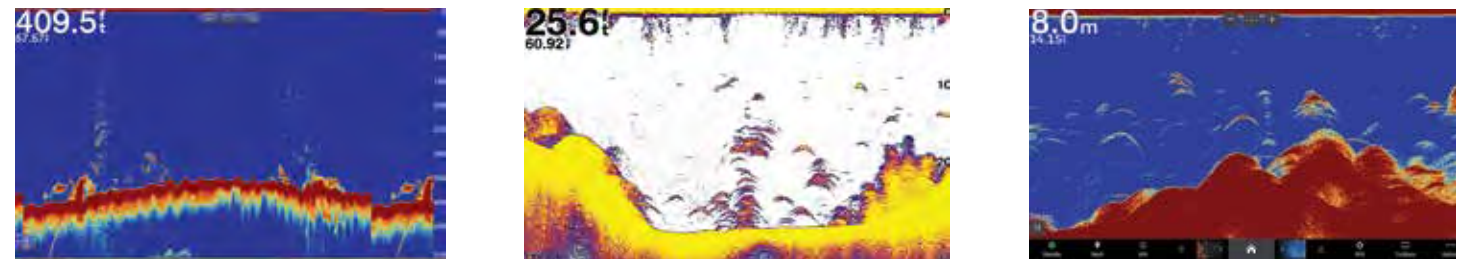
See fish and structure in colorful detail with vivid color palettes on your scanning sonar.



TRADITIONAL CHIRP SONAR

TRADITIONAL CHIRP SONAR

Garmin traditional CHIRP sonar sends a continuous sweep of frequencies ranging from low to high. This sweep of frequencies provides a wide range of data to create an amazingly clear, high-resolution image.



CHARTS AND MAPS



THE BEST OF GARMIN WITH THE BEST OF NAVIONICS®

Whether you're adventuring on the high seas, cruising an intercoastal waterway, fishing on your new favorite freshwater lake or piloting a commercial workboat, your chartplotter deserves our best, most up-to-date cartography and navigation data available. That's the advantage you get with the detail-rich Garmin and Navionics content in our full line of marine mapping solutions. With selectable chart layers, overlays and more, our products help mariners all over the world guide their boats in and out of port with confidence. Map coverage areas are aligned across standard and premium cartography for Garmin- and Navionics-branded products — with combined coastal and lake content that make it simple to access the map areas you want. See all the best places that water can take you. And plot your course with the world's No. 1 choice in marine mapping¹.

¹Based on 2021 reported sales
See current Garmin/Navionics cartography catalog for coverage areas and pricing.

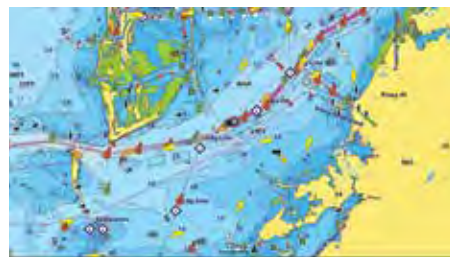
GARMIN NAVIONICS+™ CHARTS

Worldwide coverage available

INTEGRATED MAPPING FOR GARMIN CHARTPLOTTERS

You haven't seen Garmin cartography like this before. With integrated Garmin and Navionics content, it renders a whole new look and feel on your chartplotter¹, with a vibrant color palette and popular Navionics style chart presentation. For offshore or inland waters, this all-in-one solution offers detail-rich mapping of coastal features, lakes, rivers and more — with shaded depth contours and access to daily updates via the ActiveCaptain® app. Advanced Auto Guidance+ technology² offers a suggested dock-to-dock path to your destination. And multiple shading options aid in shallow water navigation and make it easy to select depth ranges for the best fishing spots. Downloadable NOAA raster imagery³ is also available for those who want the familiar look of paper charts.

ADVANCED CHART DETAIL



Integrated Garmin and Navionics content, with an updated color palette and Navionics style appearance, offers exceptional coverage, clarity and detail on your chartplotter.

DETAILED CONTOURS



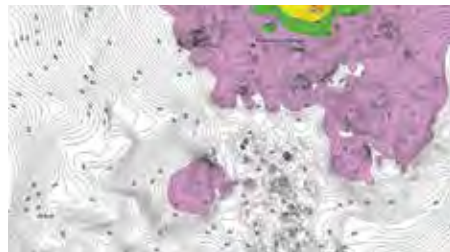
Up to 1' contours provide a more accurate depiction of bottom structure so you can catch more fish and navigate with confidence.

AUTO GUIDANCE+



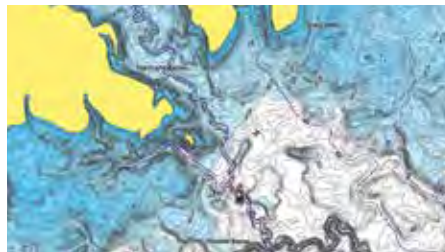
For smoother, more detailed routes, built-in Auto Guidance+ technology² uses your desired depth and overhead clearance, along with chart data and frequently traveled routes, to calculate a suggested path to follow from dock to dock.

DEPTH RANGE SHADING



Select high-resolution depth range shading for up to 10 depth ranges to view your target depth at a glance.

SHALLOW WATER SHADING



Shallow water shading for a user-defined depth gives a clearer picture of shallow waters to avoid when navigating.

RASTER CARTOGRAPHY



Download NOAA raster charts³ via the ActiveCaptain® app to your compatible smartphone, then sync to your chartplotter.

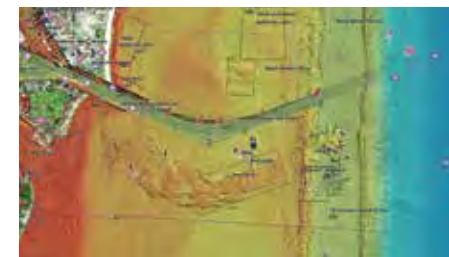
GARMIN NAVIONICS VISION+™ CHARTS

Worldwide coverage available

PREMIUM MAPPING FOR GARMIN CHARTPLOTTERS

Our premium cartography solution for Garmin devices adds even more graphical content and visual dimension to the standard Garmin Navionics+ feature set. Covering offshore and inland waters, this all-in-one mapping package lets you navigate seamlessly with such additional on-screen aids as high-resolution relief shading, 3D perspective views, and overhead visual reference from aerial photography and satellite imagery. Enhancing your situational awareness, these extra features help you navigate unfamiliar waters, marinas, shorelines, ports and more with confidence.

HIGH-RESOLUTION RELIEF SHADING



Highly detailed shading, downloadable via the ActiveCaptain® app, combines color and shadow to provide an easy-to-interpret, clearer view of bottom structure than contour lines alone.

HIGH-RESOLUTION SATELLITE IMAGERY



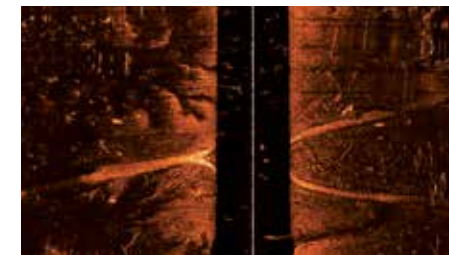
Use the ActiveCaptain® app to download high-resolution satellite imagery overlaid with navigational charts. Get a realistic view of your surroundings — ideal for entering unfamiliar harbors or ports.

AERIAL PHOTOGRAPHY



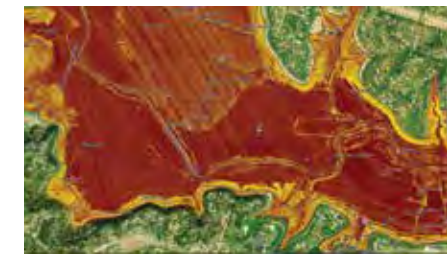
Aerial and surface photography of ports, bridges, docks, navigational landmarks and more provides a better sense of your surroundings above the waterline.

SIDE SCAN IMAGES



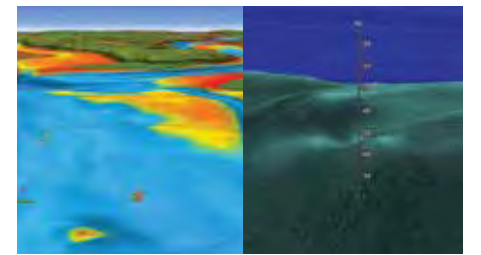
Check out submerged features such as fallen timber, fish attractors, wrecks, potential hazards and more.

SONAR IMAGERY



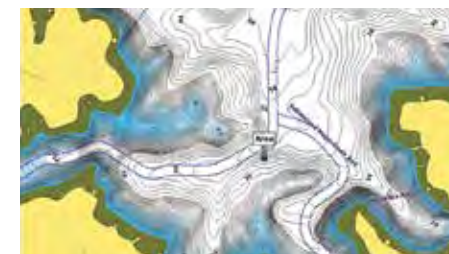
The sonar imagery feature, available via the ActiveCaptain app, reveals bottom hardness clearly and in contrasting color, highlighting both subtle and dramatic transition areas on select U.S. lakes.

3D VIEWS



MarinerEye and FishEye views provide 3D representations of the surrounding area above and below the waterline.

DYNAMIC LAKE LEVEL



For inland lake navigation, you can adjust the map to the current water levels to see which areas are accessible or too shallow to explore.

¹Garmin Navionics+ and Garmin Navionics Vision+ are designed for use on compatible Garmin devices only. Other brands may utilize Navionics+ or Platinum+ cartography. ²Auto Guidance+ is for planning purposes only and does not replace safe navigation operations. ³Raster cartography cannot be viewed on ECHOMAP™ CHIRP and ECHOMAP™ Plus combos but can be viewed on mobile devices via the ActiveCaptain® mobile app

Not all map features will display on all devices, particularly legacy devices. As engineering enhancements are ongoing, new features may not display on such legacy products.

INTEGRATED MAPPING FOR THE WIDEST RANGE OF CHARTPLOTTERS

It's all about knowing your way on the water — with cartography you can trust. That's why the boaters who trust and rely on the Navionics brand have made it the world's No. 1 marine mapping provider¹. Seamlessly combining offshore and inland content, this all-in-one solution offers clear, reliable cartography for the widest range of chartplotter brands. Navionics+ and Platinum+ cartography is available on microSD™ cards for easy installation on your compatible marine device.

Start out from day one with up-to-date charts. An included one-year subscription provides access to daily updates, advanced features and so much more. Plus, all new coverage areas are aligned across

standard and premium products, with combined coastal and lake content, making it easier to choose the right mapping solution for your needs.

The same detailed marine and lake charts are also available with the Navionics Boating app on your compatible Apple® or Android™ mobile device. Simply download the app and purchase your charts of choice to access top-of-the-line maps right from your phone.

The Plotter Sync feature enables you to transfer routes and markers, update charts and more between your plotter card and the Navionics Boating app — wirelessly. You can even activate or renew your cartography subscription and upload sonar logs.

NAVIONICS+

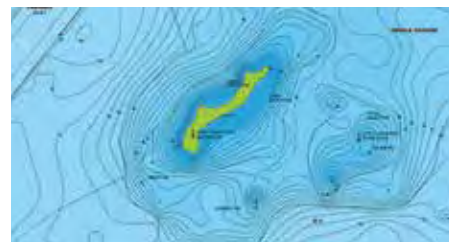
For offshore or inland waters, this all-in-one solution offers detail-rich integrated mapping, up to 1' (0.5 meter) HD contours, advanced features² such as dock-to-dock route guidance technology³ and access to daily updates via the Navionics Chart Installer software.

NAUTICAL CHART



Essential cartographic reference detail for cruising, sailing and fishing: port plans, safety depth contours, marine services, tides and currents, and navigation aids.

SONARCHART™ HD BATHYMETRY



For improved fishing and navigation, SonarChart™ HD bathymetry maps display up to 1' (0.5 meter) contours for a more detailed depiction of bottom structure.

COMMUNITY EDITS



Download the Community Edits content layer to any Navionics card and view this valuable local information, contributed by Navionics Boating app users, on your compatible chartplotter.

DOCK-TO-DOCK ROUTE GUIDANCE



Navionics advanced route guidance technology³ uses your boat settings, along with chart data and frequently traveled routes, to calculate a suggested path to follow from dock to dock.

SONARCHART LIVE MAPPING FEATURE



Create your own maps on the fly. Watch new up to 1' (0.5 meter) HD bathymetry maps develop in real time as your boat moves along the water.

ADVANCED MAP OPTIONS



Change the way you view Navionics charts and focus on the details that matter most to you. Highlight shallow areas, adjust contour density or select a fishing range.

PLATINUM+ OVERLAYS AND FEATURES

Designed with the most demanding boaters and serious anglers in mind, all the marine content of Navionics+ is enhanced with additional viewing options that take your boating experience to the next level.

PLATINUM+

INTEGRATED COASTAL AND INLAND LAKES COVERAGE

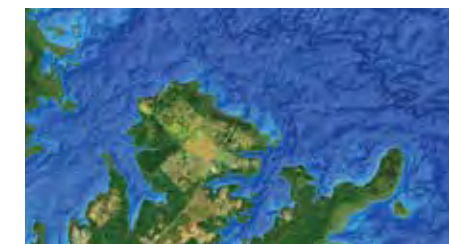
A comprehensive, all-in-one map solution, Platinum+ cartography combines premium marine content on oceans, major rivers and seas with freshwater inland mapping for more than 43,000 lakes worldwide.

HIGH-RESOLUTION RELIEF SHADING



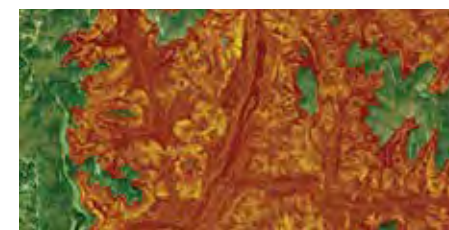
The relief shading feature brings bottom detail to life, from shallow flats to deep offshore canyons, in a vivid, colorful representation that helps boaters gain a better understanding of bottom topography.

SATELLITE IMAGERY WITH SONARCHART™ SHADING OVERLAY



Created from SonarChart 1' contour data, varying shades of blue reveal changes in depth such as channels and drop-offs to improve situational awareness and give clear, visual cues to fish-holding structure.

SONAR IMAGERY



To help find the best fishing spots, sonar imagery generated from proprietary multibeam surveys reveals bottom hardness detail and structural characteristics in contrasting color detail.

AERIAL PHOTOGRAPHY



Aerial and surface photography of ports, marinas, bridges, docks, boat ramps, dams and navigational landmarks offers superior situational awareness.

3D VIEW



Unique 3D views provide additional perspective, both above and below the water.



NOTE: Navionics+ and Platinum+ cards are not compatible with Garmin chartplotters • ¹Based on 2021 sales • ²Compatibility with Navionics advanced features varies depending on the chartplotter model • ³Route guidance is for planning purposes only and does not replace safe navigation operations • Apple is a trademark of Apple Inc., registered in the U.S. and other countries. • Android is a trademark of Google LLC.



NAVIONICS® BOATING APP

NAVIONICS
A Garmin Brand



For cruising, fishing, sailing, diving and all your other activities on the water, the Navionics Boating app brings detailed offshore marine and inland lake charts to your compatible mobile device so they're on hand wherever you go. As a companion to the chartplotter or on its own, the app delivers detailed chart content, relief shading overlays and useful functionality in a convenient and easy-to-use format.

In addition to all the great chart content, your one-year renewable subscription lets you access daily updates and powerful advanced features before, during and after your trip.

SPECIAL NAVIONICS BOATING APP FEATURES

Relief shading overlays use color and shadow to provide boat owners with a better understanding of bottom topography for improved fishing and diving

Auto Guidance+ technology uses your desired depth and overhead clearance, along with chart data and navigation aids, to give you a suggested dock-to-dock path to follow¹

The Connections feature keeps you in touch with your friends and fellow boaters; and allows you to share your live location and tracks, routes and markers

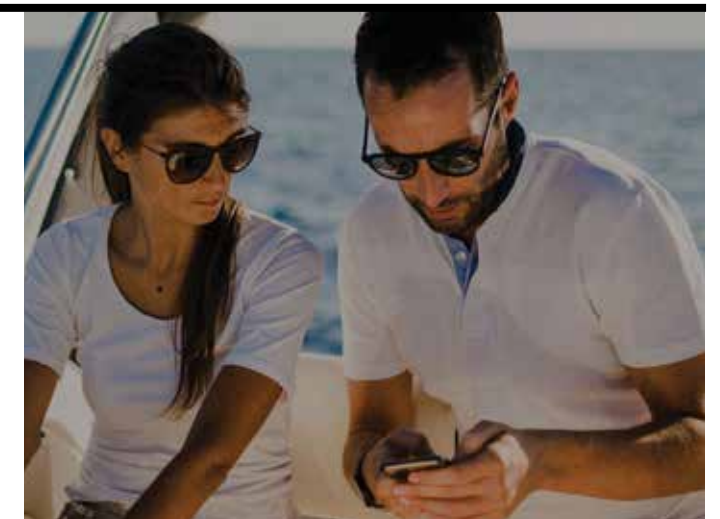
Local edits from Boating app users and the ActiveCaptain® Community are integrated within the app

SonarChart™ Live mapping feature lets you create your own 1'/0.5 meter contour HD bathymetry maps in real time while navigating

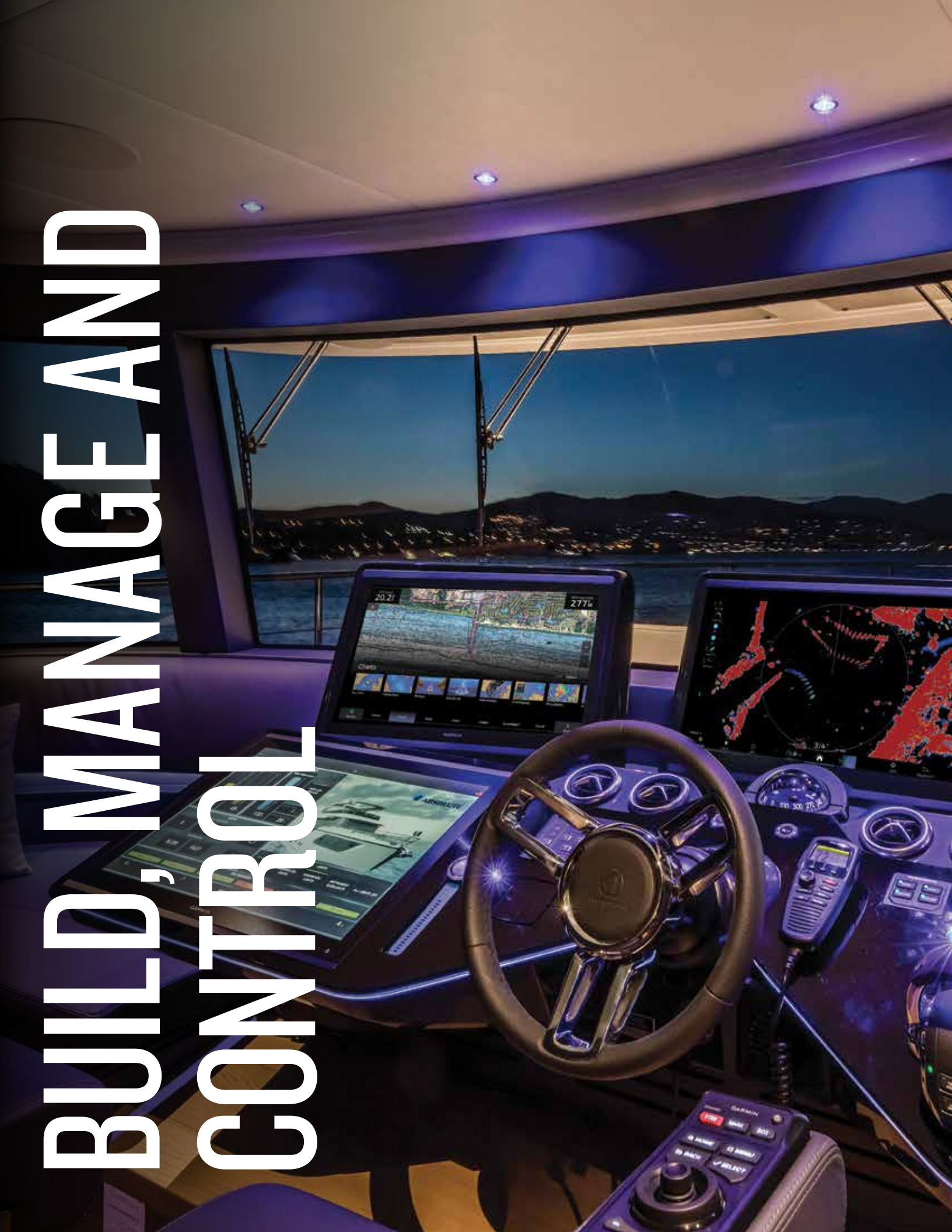
Access real-time weather data, daily and hourly forecasts, as well as wind, weather buoys, tides and currents overlaid on your map

The Boating app is available as a separate purchase for Apple® and Android™ devices and offers a free trial before subscribing

The Plotter Sync feature allows compatible chartplotter owners to transfer routes and markers, update chart layers and more — to and from the Boating app



BUILD, MANAGE AND CONTROL



BUILD A COMPLETE ONBOARD SYSTEM

The Garmin Marine Network and NMEA 2000® network allow you to easily view multiple functions, such as chartplotter, radar, sonar, AIS, on one or more displays. All Garmin Marine Network and NMEA 2000 devices come with an easy plug-and-play setup. The system automatically detects the devices in the network and makes them ready to use.

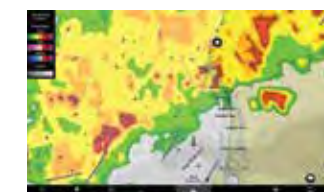
NMEA 2000 CONNECTIVITY

Utilize NMEA 2000 to connect Fusion-Link™ enabled audio systems, AIS, VHF, autopilots, engine data, fuel flow sensors and wind sensors.

GARMIN MARINE NETWORK

Utilize Garmin Marine Network to connect Garmin marine electronics such as sonar, radar, monitoring cameras, video data, and multiple MFDs and chartplotters.

WEATHER



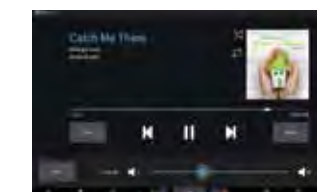
CAMERA



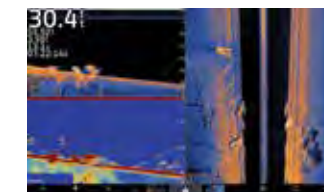
RADAR



FUSION-LINK



SONAR



AUTOPILOT



ENGINE DATA



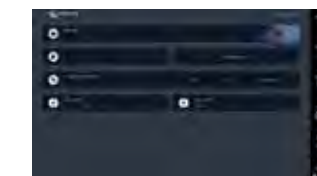
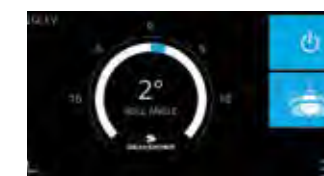
WIND SENSOR



CONTROL. EVERYTHING.

ONEHELM™

Our integrated solution is designed to work with marine products manufactured by third-party companies to bring you the power and convenience of controlling onboard boat systems such as digital switching, lighting, stabilization and more. It's all in one simple, convenient control center – the screen of your Garmin MFD.



ONDECK™ SYSTEM

Keep tabs on systems such as battery, shore power, bilge or saltwater pumps and receive alerts if a security sensor is triggered or if your boat is moved from its GPS geofenced area. Get 24/7 peace of mind with OnDeck technology onboard¹.



GARMIN EMPIRIBUS™ DIGITAL INTEGRATIONS

These innovative and intelligent products, solutions and services provide a complete suite of embedded systems, power supply and power distribution, creating the backbone for complete digital control and smart boat features. EmpirBus components connected with Garmin MFDs (sold separately) allow cruisers, sailors and anglers to control virtually any device on their vessel easily – from propulsion to pumps, air conditioning to infotainment. This connectivity enhances situational awareness and helps make time on the water even more enjoyable.



¹An active subscription plan is required. Both the OnDeck Hub and user's device must have connectivity to a 3G/4G network.

ACTIVECAPTAIN® APP



Give yourself the advantages of the ultimate connected boating experience. Download the free all-in-one ActiveCaptain app. It provides you with a powerful connection to your Garmin chartplotter, charts, maps and the community. Wherever you are, you can have convenient access to your cartography, activate chart subscriptions, purchase and update maps and charts, plan your trips and access the Garmin Quickdraw™ Contours Community.



SPECIAL ACTIVECAPTAIN FEATURES

Use the built-in OneChart™ feature on the ActiveCaptain app to access and wirelessly update your compatible charts from your compatible smartphone directly to your chartplotter

The ActiveCaptain app allows you to download premium content, such as high-resolution relief shading, for your Garmin Navionics Vision+™ charts.

Receive smart notifications, such as calls and texts, on your chartplotter display when paired with the app

Download software updates and notifications directly from the app to your Garmin devices

Connect to fellow boaters with the ActiveCaptain community for up-to-date feedback on marinas and other points of interest

Make, save and transfer routes and waypoints between the app and chartplotter — with zero button presses¹

Easily upload and download the latest Garmin Quickdraw Contours content from the community — with zero button presses¹

View and control your chartplotter from your compatible smartphone or tablet

Use with the OnDeck™ remote connectivity system (sold separately) to track, monitor and control connected switches on your boat from virtually anywhere



¹Zero button presses applies to GPSMAP® chartplotters

REMOTE CONNECTIVITY SOLUTIONS

ONDECK™ SYSTEM

When paired with the ActiveCaptain® app on your compatible smartphone, the OnDeck remote connectivity solution lets you track, monitor and control multiple switches on your boat from virtually anywhere. Keep tabs on systems such as battery, shore power, bilge or saltwater pumps, and receive alerts if a security sensor is triggered or if your boat is moved from its GPS geo-fenced area. Get 24/7 peace of mind with OnDeck technology onboard¹.

TRACK



Be the first to know if a security sensor has been triggered, or if your boat has been moved. The internal GPS sensor updates every 15 or 30 minutes, depending on power status, and will send text alerts¹ if your boat leaves the geofenced area.

MONITOR



Get updates¹ on your boat's battery status, bilge activity, shore power, temperature changes and more. Set up alarm notifications in the ActiveCaptain® app.

CONTROL



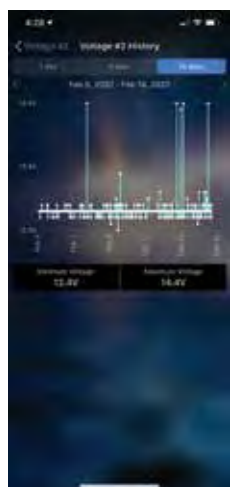
Control any number of NMEA 2000® latching or momentary switches, including battery chargers, ice makers and more.

ACTIVECAPTAIN APP



Download the ActiveCaptain app to your compatible smartphone or tablet to manage your vessel. It's where you can set up alarm notifications, take control of your boat and so much more¹.

STORE DATA



Securely collect vessel data with the OnDeck Hub and store it in the cloud for up to 30 days.

ONDECK HUB



The OnDeck Hub uses 3G/4G coverage.



¹An active subscription plan is required. Both the OnDeck Hub and user's device must have connectivity to 3G/4G network.

DIGITAL CONTROLS AND MONITORING

GARMIN BOAT SWITCH™

Get the integrated boat experience with digital switching that allows you to operate onboard electrical functions right from your compatible GPSMAP® or ECHOMAP™ chartplotter. Control your nav lights, dimmable cabin lights, bilge and livewell pumps, and even your horn. The system installs without special tools and allows you to add and name switches on your chartplotter display easily.

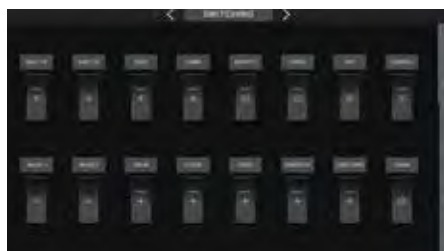


ALL-IN-ONE



Replace existing two-element systems — fuse box and switches — for easier control and operation of onboard functions.

DIGITAL CONTROL



Get control and protection of up to 20 circuits via your chartplotter rather than a physical button or switch.

ON-OFF SWITCHES



The toggle outputs operate bilge pump and non-dimmable lights, such as nav lights and courtesy lights.

DIMMABLE OUTPUTS



Press-and-hold dimmers let you set your preferred brightness on board.

MOMENTARY OUTPUTS



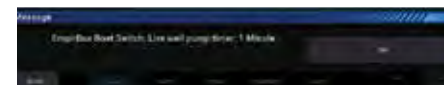
Control horns and more. Simply press and release for desired length of horn beep.

MONITOR TANKS



Access built-in tank sender detection and calibration for as many as four tanks, such as fuel, freshwater, graywater, blackwater and livewell.

LIVWELL TIMER



A built-in timer turns the pump to cycle the water to keep fish alive — and keep pumps functioning longer.



DIGITAL CONTROLS AND MONITORING

EmpirBus™
A Garmin Brand

The EmpirBus product lines bring all the power and convenience of advanced home automation to your vessel by allowing you to control and monitor all onboard electronic systems from your Garmin chartplotter or multifunction display: lighting, wipers, entertainment and security systems, air-conditioning, navigation lights and much more. EmpirBus replaces the standard mechanical circuit breakers and switches with state-of-the-art digital power distribution that provides reliable, convenient and easy-to-use operation.

ELEGANTLY SEAMLESS

An EmpirBus digital system comprises one or more compact digital distribution control modules (DCMs) and master control units (MCUs). The DCM supports between 16 and 31 circuits that are customized to meet the exact needs of the equipment being controlled. Each DCM connects to the existing NMEA 2000® network backbone, enabling it to communicate with the other DCMs and Garmin multifunctional displays via a WDU unit (sold separately) on the Garmin Marine Network. This flexible network architecture enables the DCMs to be mounted near the equipment they are controlling, providing a system that is simpler to install and troubleshoot. The MCU is the central processor that drives the system, providing computing power, intelligence and decision-making. It talks to the other system components via the network.

CREATIVITY UNBOUND



EmpirBus systems feature fully customizable layouts and graphics that allow for every circuit switch or monitor to be shown in any configuration with a simple drag-and-drop graphic interface builder. Screens can even be personalized by uploading boat images.

USER INTERFACE FOR COMPATIBLE GARMIN CHARTPLOTTERS



DIGITAL CONTROLS AND MONITORING

EmpirBus™
A Garmin Brand

EMPIRBUS™ NXT DCM

EmpirBus NXT DCM provides full control of your vessel, from the engine to advanced lighting, dimming and ambience to wiper systems. It has a small footprint and is easy to install and service.

The main DC Power is connected by two stainless steel M6 studs. In addition there is also a connector for an EnOcean antenna. All output channels are electronically protected and feature undercurrent protection as well as soft stop/start and are capable of being electronically dimmed and of driving complex loads such as LED lighting or windscreen wipers directly.

To increase output capacity, outputs may be paralleled and to simplify installations, both high side and low side switching is possible.

With multiple input capabilities and ranges, the DCM is an extremely versatile and cost-effective means to interface signals to the system and when combined with the powerful NXT software complex, monitoring and control systems are easily realized in practice.



EMPIRBUS™ CONNECT 50

EmpirBus Connect 50 is a more compact version of the NXT DCM, designed for smaller or less complex installations. It includes the durability and competence of the NXT DCM and delivers outstanding cost/channel ratio without sacrificing important functionality.

The outputs have been fitted with high-accuracy current feedback that enables real-time readout of the current consumption per channel. A new design of the NMEA connection provides galvanically isolated connection, without the need for a powered NMEA bus. The power consumption from the NMEA bus is ZERO for the Connect 50!

The Connect 50 comes as standard with 11 input channels and 20 output channels. As an option, it can be equipped with ports for additional galvanic isolated CAN and serial interface. In addition there is also an option to fit the Connect 50 with WiFi® for wireless control and connectivity.



Reverse polarity on two channels to control of tables, windows, hatches etc., is supplied as standard, and it can control and synchronize window wipers.

DIGITAL CONTROLS AND MONITORING

EmpirBus™
A Garmin Brand

SYSTEM CONFIGURATION

EmpirBus™
A Garmin Brand

EMPIRBUS NXT MASTER CONTROL UNIT (MCU)

The EmpirBus MCU v2 is an essential component of a larger installation providing multiple functions. It is the central processor that drives the system and it provides the computing power, intelligence and decision making. In addition there are various interfaces for connection to external devices. The new MCU v2 boosts 2 auxiliary CAN-ports and 2 RS485 ports that are all galvanically isolated and opens up for more third-party integrations in parallel. The MCU v2 also provides extended memory and improved processing capabilities for supporting even larger and more complex installations.



TD 50 MARINE INSTRUMENT

The TD50 is a 5" touchscreen display intended for use as a secondary EmpirBus digital switching unit. EmpirBus allows you to control onboard electrical and electronic systems like lighting, air-conditioning, navigation lights, wipers, horns, entertainment systems, security systems and much more. The TD50 has configurable backlight and language capabilities. Its software can be updated by MFD or Ethernet Garmin card reader.



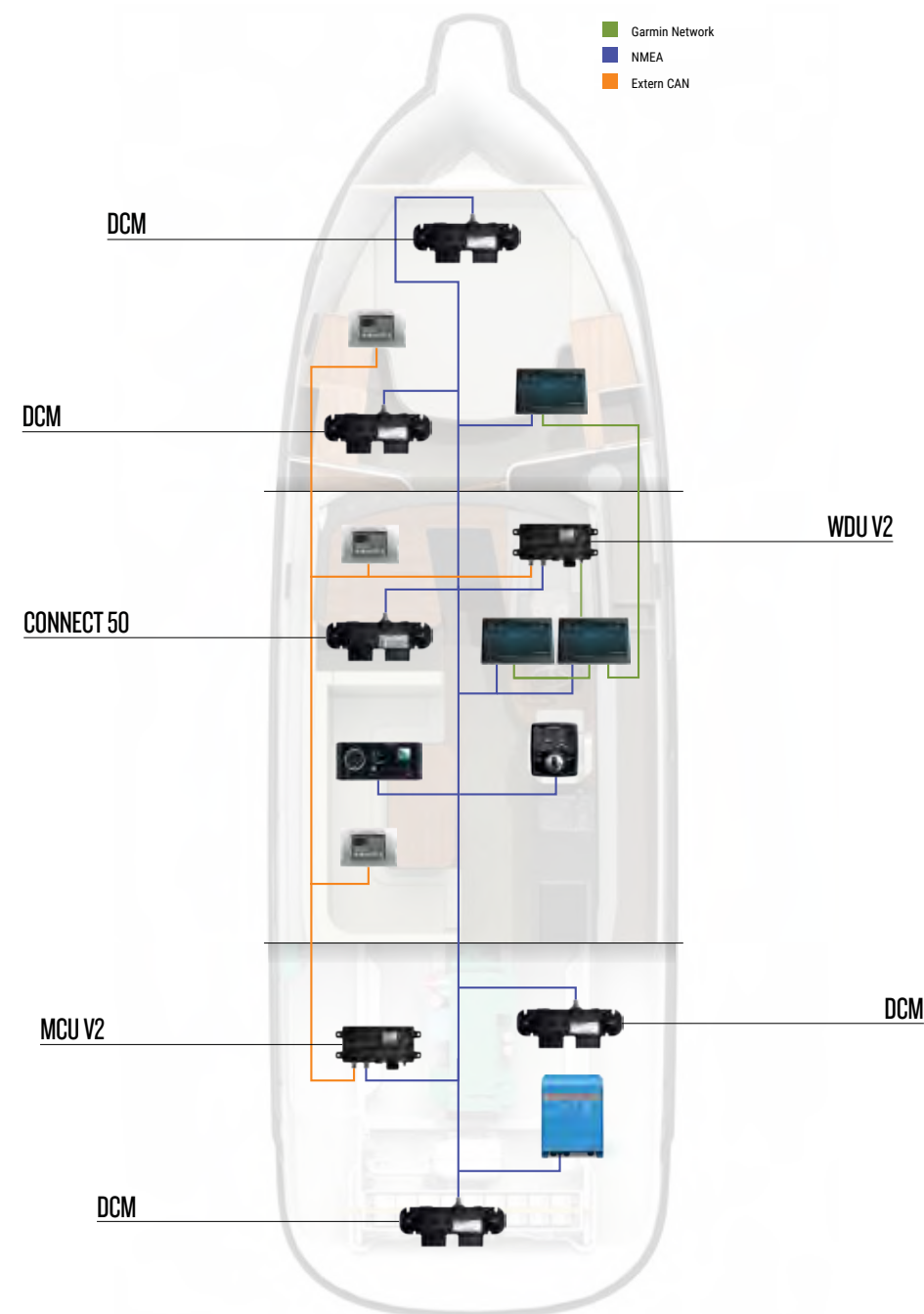
EMPIRBUS WEB DISPLAY UNIT (WDU V2)

The EmpirBus Web Display (WDU v2) unit is a webserver unit to distribute customized graphics to any HTML5-supporting device. The WDU v2 allows any EmpirBus system to be controlled and monitored by a user interface fully optimized for its purpose.

The WDU v2 is an EmpirBus system add-on to enable control from HTML5-supporting devices and software. NMEA2000 connected to EmpirBus system and Ethernet (RJ45 sealed) for HTML5 distribution. HTML5 pages and apps can be graphically configured without limitations and work seamlessly with the EmpirBus software.



Control all electronic and electrical systems from a compatible Garmin display, replacing standard mechanical circuit breakers and switches with a state-of-the-art digital power distribution. Simple, easy to use, cost-effective and with seamless, reliable operation, EmpirBus digital switching makes a perfect solution to centralize all controls. Enjoy full control of your boat along with marine specific monitoring solutions like battery levels, lighting, trim controls, temperature, tank monitoring and more. The EmpirBus interface can be easily customized for each boat model, resulting in intuitive operation.



MARINE ENTERTAINMENT



FUSION® MARINE ENTERTAINMENT

FUSION
A Garmin Brand

THE SUM OF AUDIO INNOVATION

FUSION
A Garmin Brand

THE FUTURE WITH FUSION



Fusion, a Garmin brand, is passionate about enhancing your time on the water. Founded on New Zealand's trademark "Kiwi" determination, ingenuity and passion for life on the water, our first-hand experience with the ocean and great outdoors has provided a solid understanding of what it really takes to be a successful marine entertainment manufacturer. It is this experience and passion that is at the core of everything we do. Our drive to continually innovate has seen the delivery of many industry- and world-first, award-winning and customer-centric products that have set a new benchmark for marine audio entertainment. A commitment to innovation, quality and brilliant audio on the water — it's what we do best.



TRUE-MARINE™ DESIGN



Fusion True-Marine products are designed and engineered by Fusion specifically for the marine environment. True-Marine products are subjected to rigorous environmental testing under harsh marine conditions to surpass industry guidelines of marine electronics. All Fusion True-Marine products are backed by Fusion's 3 year, industry leading warranty to last season after season on your boat.

MULTI-ZONE™ TECHNOLOGY



Fusion introduced Multi-Zone Technology to the marine industry more than 10 years ago, giving you the freedom to independently control the music in up to four separate zones on board. Adjust the balance, subwoofer and volume levels, with each zone able to be named for quick zone identification, providing a simple, quick and easy way to control the audio in each zone of your boat.

FUSION DSP



The power of Fusion DSP enables the optimization of your audio system in each zone on board, providing customized listening in any environment. Every step of the audio chain is calculated and optimized by our engineers to deliver a technically superior listening experience — without the need for you to have the technical understanding. From the kick drum to your eardrum, Fusion DSP ensures you enjoy your music in the quality the musicians intended.

THE WORLD'S FIRST WI-FI® STEREO



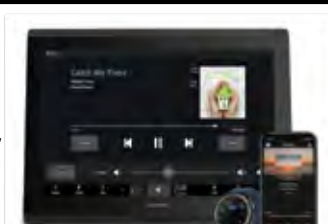
Wi-Fi audio streaming provides high-quality audio streaming with a faster data transfer rate in comparison with BLUETOOTH® wireless technology. Seamless Apple AirPlay® 2 streaming is now available over Wi-Fi from a compatible Apple® device to the Apollo™ Series¹ stereos, enabling you to stream your music to multiple Apollo units on the same network.

FUSION-LINK™



Fusion-Link makes control of your on-water entertainment simple, convenient and easier than ever. Quickly find your favorite song, tune in to the sports or turn up the volume, all from your partnered multifunction display (MFD) with Fusion-Link over NMEA 2000®.

Download the free Fusion-Link app to bring wireless audio control to the palm of your hand, via BLUETOOTH® wireless technology or Wi-Fi® with your compatible device. Enjoy wireless audio control with your compatible device and the Fusion-Link app, or right from your wrist with your compatible Garmin watch and the free Fusion-Link™ Lite app.



APOLLO™ SERIES

Enhance your time on the water with world-class Apollo Series marine audio entertainment products. These premium stereos feature a modern design aesthetic with robust, cutting-edge sound technology tailored to the marine environment. The result: clear, dynamic sound reproduction that sets a new industry benchmark in on-water listening enjoyment.

MS-RA770



The Apollo RA770 is the world's most-awarded marine stereo. It features a 4.3" touchscreen display with Fusion® DSP, built-in Wi-Fi® with Apple AirPlay 2¹, PartyBus™-Network technology, over-the-air software updates and Multi-Zone™ Technology in four zones. It also has Fusion-Link™ control and an IPX6 and IPX7 water resistant front face with True-Marine™ design.

MS-RA670



The Apollo RA670 reembodies award-winning innovation in a more compact form factor. Key features include a 2.7" optically bonded color LCD, Fusion DSP, Multi-Zone Technology in three zones and Fusion-Link control. When connected to a Wi-Fi network, you have the additional features of Apple AirPlay 2¹, over-the-air software updates¹ and PartyBus-Network technology¹.

MS-WB675



The Apollo WB675 marine hideaway stereo is designed to save dash space at the helm while offering superior quality audio on board. It offers Multi-Zone™ Technology that controls up to four separate audio zones on your boat. Key features include Fusion® DSP, enhanced PartyBus-Network™ capabilities, Wi-Fi audio streaming with Apple AirPlay 2¹, over-the-air software updates¹ and the ability to control your music from a compatible MFD, smart device or Garmin watch.

MS-SRX400



A perfect companion to the Apollo RA770, the compact Apollo SRX400 zone stereo features a 2.7" optically bonded color LCD, Fusion DSP, built-in Wi-Fi with Apple AirPlay 2, PartyBus-Network technology and over-the-air software updates for a superior audio experience.



QUALITY, CONVENIENCE, BEST IN CLASS.
THE ONLY MARINE STEREO WITH Apple AirPlay 2.

The world's first marine stereo series to bring you seamless high-quality audio streaming from a music app via Apple AirPlay 2¹ over Wi-Fi from a compatible Apple device. With Apple AirPlay 2, you can stream the same audio to every compatible Apollo stereo connected to the same network, and enjoy high-quality audio synchronized across the entire boat with volume control individually or globally.

THE INDUSTRY AWARD-WINNING FEATURES OF THE APOLLO SERIES



FUSION DIGITAL SIGNAL PROCESSING

A technically superior listening experience made simple. Fusion DSP optimizes the audio signal delivered to your Fusion system to produce superior sound quality at all volume levels, in every listening environment.



THE WORLD'S FIRST MARINE WI-FI STEREO

Enjoy the clarity and premium quality of Wi-Fi audio streaming in a world-first for marine stereos, including the convenience of Apple AirPlay 2 and UPnP, with faster data transfer rate and increased connectivity range in comparison with BLUETOOTH® audio streaming.



OVER-THE-AIR SOFTWARE UPDATES

Over-the-air software updates are now available from your compatible device via the free Fusion-Link app, making the Apollo Series intelligently simple and always up to date.



FUSION PARTYBUS-NETWORK

Engineered for those who value the freedom to play what they want, where they want, Fusion PartyBus-Network is the audio distribution system of the future. We have introduced a new intuitive user experience for the Apollo Series, allowing you to seamlessly navigate and control your entire boat's audio network.

Key functionalities include:

- **Stereo grouping** – play the same synchronized audio source across grouped stereos.
- **Volume control** – individual or group volume control.
- **Power options** – turn on or off any Apollo Series stereo on the PartyBus-Network from another Apollo Series stereo or remote.
- **Home zone** – easy access to control where the stereo is installed.

¹MS-RA670 / MS-WB675 will get Apple AirPlay 2, PartyBus and over-the-air software updates when connected via Ethernet to an external wireless router (sold separately), Garmin MFD or Apollo Series stereo network enabled with Wi-Fi technology. • Wi-Fi is a registered trademark of the Wi-Fi Alliance. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license. AirPlay and Apple are trademarks of Apple Inc., registered in the U.S. and other countries.

¹MS-RA670 / MS-WB675 will get Apple AirPlay 2, PartyBus and over-the-air software updates when connected via Ethernet to an external wireless router (sold separately), Garmin MFD or Apollo Series stereo network enabled with Wi-Fi technology. • Wi-Fi is a registered trademark of the Wi-Fi Alliance. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license. AirPlay and Apple are trademarks of Apple Inc., registered in the U.S. and other countries.

FUSION® MARINE ENTERTAINMENT

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APOLLO AMPLIFIERS



Fusion Apollo amplifiers are the difference between hearing the music and feeling it. They are efficient, easy-to-install and work with your compatible Fusion stereo system¹. With multichannel versions capable of producing an impressive 150-watt RMS per channel — and monoblock units outputting up to 650 watts RMS powering a subwoofer — these Apollo amplifiers deliver a crisp, clean, technically superior marine audio experience. The compact zone amplifier provides audio zone expansion for high-quality sound in more areas on your boat. They all use less power, so you can listen to music longer with less drain on your battery. Plus, the Easy Tune feature² automatically regulates audio settings for the best sound quality without manual adjustments.

Available in: **Monoblock | 4 Channel | 6 Channel | 8 Channel | Zone Amplifier**

FUSION WAKE TOWER SPEAKERS



Join the party, whether you're on the boat or behind it. Fusion wake tower speakers are designed to deliver crystal-clear, high-quality audio at any volume level — plus full-spectrum LED lighting to match your music and add the ideal visual ambience to your on-water entertainment experience. The speakers' acoustic properties have been specifically optimized for wake boat applications. Speakers are offered in a range of sizes, and they're built True-Marine™ tough to last season after season in harsh marine environments. A selection of accessory mounting brackets (sold separately) makes for easy installation and versatility on board.

Signature Series 3i available in: **6.5" and 8.8"**

XS Series available in: **6.5"**

SIGNATURE SERIES 3i SPEAKERS



Bring on the elements. The Signature Series 3i speakers deliver crystal-clear audio and withstand harsh marine conditions like never before. New water-resistant connectors make installation easy and provide superior protection against the elements, season after season. CURV® Cone composite fiber technology produces greater sound definition at higher volumes. And CRGBW LED lighting (sports-style with LED models only) adds both Cool White and Warm White to the standard RGB LEDs, providing an unprecedented spectrum of colors to illuminate your boat and match your music for an unparalleled on-water entertainment experience.

Available in: **6.5" | 7.7" | 8.8"**

SIGNATURE SERIES 3i SUBWOOFERS



Bring the thunder. The Signature Series 3i subwoofers deliver the drama with the premium low frequencies to enhance your listening experience. With new water-resistant connectors and a redesigned grille, these subwoofers are made for life on the water, just like you.

Available in: **10" | 12"**

SIGNATURE SERIES AMPLIFIERS



The Signature Series range is made up of 5 premium, efficient and powerful amplifiers — monoblock, 4-channel, 5-channel, 6-channel and 8-channel, all designed to take your boating experience to the next level. A 24-volt, 6-channel amplifier is also available for boats operating on 24-volt electrical systems.

Available in:

Monoblock | 4 Channel | 5 Channel | 6 Channel | 24 Volt 6 Channel | 8 Channel

XS SERIES MARINE SPEAKERS



Enjoy high-performance acoustics on the water season after season with the XS Series speakers. Continuing to set the benchmark for marine audio entertainment, these full-range speakers bring you trademark quality audio reproduction from Fusion, enhanced marine aesthetics and RGB LED lighting, all at a midrange price point.

Available in: **4" | 6.5" | 7.7"**

FM SERIES MARINE SPEAKERS



The FM Series marine speakers are engineered to deliver quality acoustics to your boat in a sleek and minimalistic aesthetic to meet the latest boat design trends. The FM Series is designed to be flush mounted with a mounting profile no thicker than 2.5mm [3/32"], for a near flat finish.

Available in: **6.5" | 7.7"**

THE BENCHMARK FOR MARINE ENTERTAINMENT

MS-RA210



The MS-RA210 is a powerful compact marine stereo featuring Fusion's new-look design aesthetics and DSP for an optimized audio entertainment experience. With a brilliant 2.7" optically bonded, full-color LCD, Fusion-Link™ control, and IPX6 and IPX7 rated from the front face, the MS-RA210 is a sleek addition to your boat.

MS-RA70 / MS-RA70N / MS-RA70NSX



The value-for-money RA70 Series is perfect for delivering quality audio on board, featuring a DIN sized design, BLUETOOTH® wireless technology and ANT® capabilities. Enjoy NMEA 2000® connectivity (MS-RA70N and MS-RA70NSX) and SiriusXM®-ready satellite radio, with advanced features (available only in MS-RA70NSX).

MS-RA60



The MS-RA60 is the most economical marine stereo from Fusion yet, featuring modern aesthetics, Multi-Zone™ Technology in two zones and advanced connectivity options in a compact form factor. It features perimeter-bonded, anti-fogging LCD that is integrated into the IPX6 and IPX7 water-resistant black front face.

REMOTE AUDIO CONTROLS

APOLLO™ ERX400 WIRED REMOTE



Sleek, compact and easy to install, the Apollo ERX400 wired remote control adds intuitive and integrated audio control to any zone on board your boat. It features a 2.7" optically bonded color LCD. And connecting a single proprietary Ethernet cable to an Apollo Series network or individual stereo makes installation a breeze.

ANT-ENABLED ARX REMOTE



Retrofit your Fusion ANT-enabled system with the MS-ARX70 ANT remote to enjoy the convenience of wireless audio control from anywhere around your boat. Rated both IPX6 and IPX7 water resistant, the remote is perfect for the swim platform, bow, transom or anywhere you want quick access to audio adjustments.

CRGBW WIRELESS REMOTE CONTROL



Enjoy full control of the illumination options and functions of your Fusion CRGBW speakers and subwoofers with the CRGBW wireless remote control. Control the color using the intuitive color select wheel and also adjust the brightness, light mode (static or dynamic) and speed with the press of a button.

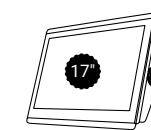
¹Compatible Fusion stereo systems include Apollo RA770, Apollo RA670, Apollo WB675 and MS-RA210 • ²Requires setup using the Fusion-Link™ app on a compatible smartphone

The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license. Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc.

CHARTPLOTTERS



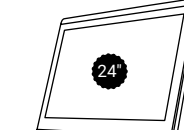
GPSMAP® 8600 MFD SERIES



GPSMAP 8617: 010-01510-50



GPSMAP 8622: 010-01511-50



GPSMAP 8624: 010-01512-50

Large-format multifunction displays feature full HD in-plane switching (IPS) touchscreens that provide consistent, accurate colors from all viewing angles even while wearing polarized sunglasses. GPSMAP 8600 series displays offer built-in Garmin Navionics+™ charts with Auto Guidance+ technology¹. They're also compatible with premium Garmin Navionics Vision+™ cartography.



PINCH TO ZOOM TOUCHSCREEN

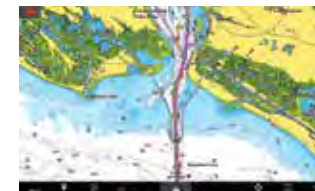
HIGH RESOLUTION, IPS DISPLAY

HIGH PERFORMANCE PROCESSOR

FULLY NETWORKABLE

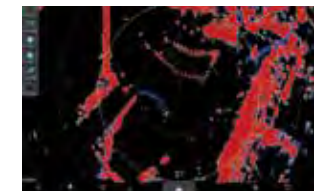


GARMIN NAVIONICS+ CHARTS



Highly detailed maps and cartography featuring Navionics® data and Auto Guidance+ technology¹.

FANTOM RADAR



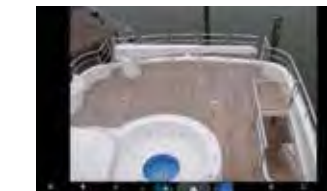
Supports Fantom™ radar with MotionScope™ technology.

DIGITAL SWITCHING SUPPORT



Nearly all your controls are available right at your fingertips.

CAMERA INTEGRATION



Supports camera integration for Garmin marine cameras, select Axis cameras, FLIR® thermal vision cameras and VIRB® action cameras.

ADDITIONAL SERIES FEATURES

- SmartMode™ provides one-touch access to docking, cruising, fishing, anchoring and more
- Install multiple displays either flush or flat mounted edge-to-edge
- Supports Garmin black box sonar systems; view multiple sources simultaneously
- Enhanced video processing with up to 4 IP (internet protocol) camera streams at the same time
- Built-in Wi-Fi® pairs with free ActiveCaptain™ app for access to OneChart™ to purchase and download new charts, smart notifications², software updates, Garmin Quickdraw™ Community data and more
- Presets for sonar, radar, cameras, media and digital switching can be independent or incorporated into SmartMode™ station controls
- Built-in Garmin SailAssist™ feature provides data, displays and prerace guidance needed to gain a competitive edge
- Network compatible connectivity includes Wi-Fi®, ANT® technology, 4-wired Ethernet ports, NMEA 2000, HDMI and USB ports, Fusion-Link integration
- OneHelm and EmpirBus bring full control of all your onboard boat systems, such as digital switching, lighting, propulsion, pumps, air conditioning and infotainment, to your MFD screen

GRID™ 20 REMOTE INPUT DEVICE

Landscape: 010-02011-01
Portrait: 010-02011-00

The easy-to-use remote input device provides access and control of your entire Garmin marine system. It features a 360-degree joystick with a rotary knob and push-to-select button for easy chartplotter menu/setting navigation and fine control, even in the worst conditions. You can designate 4 favorite keys to restore your system to a previously saved configuration.



¹Auto Guidance+ is for planning purposes only and does not replace safe navigation operations
²When paired with a compatible smartphone; see Garmin.com/ble • Wi-Fi® is a registered trademark of the Wi-Fi Alliance.

GPSMAP® 8600 CHARTPLOTTER SERIES



10-02091-50 | 8610
010-02091-51 | 8610xsv



010-02092-50 | 8612
010-02092-51 | 8612xsv



010-02093-50 | 8616
010-02093-51 | 8616xsv

Chartplotter and chartplotter/sonar combos feature full HD in-plane switching (IPS) touchscreen displays for wider viewing angles, superior clarity and sunlight readability even with polarized sunglasses. GPSMAP 8600 series units come with built-in Garmin Navionics+™ charts featuring Auto Guidance+ technology¹. They're also compatible with premium Garmin Navionics Vision+™ cartography.



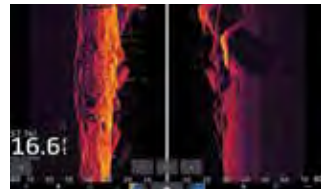
HIGH-RESOLUTION, IPS TOUCHSCREEN DISPLAY

HIGH-PERFORMANCE PROCESSOR

FULLY NETWORKABLE

XSV MODELS INCLUDE BUILT-IN SUPPORT FOR THE FULL SUITE OF GARMIN SONAR OPTIONS

ULTRA HIGH-DEFINITION SONAR



Built-in support for the Ultra High-Definition scanning sonar system; no black box needed.

LIVESCOPE™



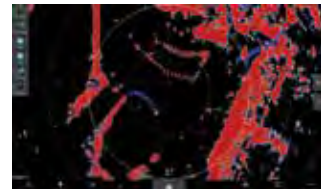
Supports all LiveScope sonar, including the LiveScope Plus System and LiveScope XR System.

GARMIN NAVIONICS+ CHARTS



Highly detailed maps and cartography featuring Navionics® data and Auto Guidance+ technology¹.

GMR FANTOM™ RADAR



Supports Fantom radar with MotionScope™ technology.

ADDITIONAL SERIES FEATURES

Full HD IPS touchscreen display for wider viewing angles, superior clarity and sunlight readability even with polarized sunglasses

Built-in support for the full suite of Garmin sonar capabilities: CHIRP traditional, ClearVü and SideVü scanning sonars, Ultra-High Definition scanning sonar (no black box needed), the LiveScope systems and the full line of Panoptix™ sonars (transducers sold separately)

Adds a stunning appearance with ability to install multiple displays either flat mounted edge to edge to create a sleek glass helm look or mounted flush

Fully NMEA 2000® and Garmin Marine Network capable to easily build your marine system, from sonar, radar and autopilots to instruments, cameras and multimedia

BLUETOOTH®, ANT®, Wi-Fi® connectivity for quatix® smartwatches, VIRB® 360, gWind™ Wireless 2 and more

Use exclusive OneHelm™ feature to connect to many third-party devices for full control of your boat on your chartplotter screen

Preloaded with Garmin Navionics+ charts featuring Auto Guidance+ routing technology¹

SmartMode™ station controls enable presets for one-touch access to docking, cruising, fishing, anchoring and more

Built-in SailAssist provides data, displays and prerace guidance needed to gain a competitive edge

Use built-in Wifi networking to pair with your compatible smartphone using the free ActiveCaptain app for access to OneChart, smart notifications, Garmin Quickdraw community data and more.

Compatible with Force™ trolling motor for full control of the motor from the chartplotter screen, plus the ability to route to waypoints, follow tracks and more

GPSMAP® X3 SERIES



010-02365-60 | 743
010-02365-61 | 743xsv



010-02366-60 | 943
010-02366-61 | 943xsv



010-02367-60 | 1243
010-02367-61 | 1243xsv

Boasting more pixels and processing power than previous-generation GPSMAP devices, these fast, responsive touchscreen units offer seamless network integration and support for traditional and scanning sonar capabilities¹, J1939 engine connectivity, OneHelm™ digital switching and more. GPSMAP X3 series units come with built-in Garmin Navionics+™ charts featuring Auto Guidance+² technology. They're also compatible with premium Garmin Navionics Vision+™ cartography.

J1939 ENGINE CONNECTIVITY

ONEHELM DIGITAL SWITCHING CAPABILITIES

AVAILABLE WITH BUILT-IN GARMIN NAVIONICS+ CHARTS FEATURING AUTO GUIDANCE+ TECHNOLOGY²

XSV MODELS INCLUDE BUILT-IN SUPPORT FOR THE FULL SUITE OF GARMIN SONAR OPTIONS¹

ULTRA HIGH-DEFINITION SONAR



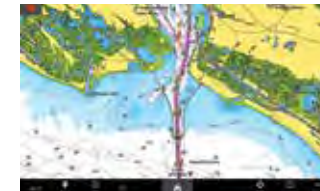
Offers built-in support for the Ultra High-Definition scanning sonar system; no black box needed.

LIVESCOPE™



Supports all LiveScope Sonar Systems.

GARMIN NAVIONICS+ CHARTS



Highly detailed maps and cartography featuring Navionics® data and Auto Guidance+² technology.

NMEA 2000® AND NMEA 0183 NETWORKS



Connect with autopilots, the Fusion-Link™ audio system and engine data.

ADDITIONAL SERIES FEATURES

Bright, easy-to-use, sunlight-readable displays have more pixels than previous-generation GPSMAP touchscreens for ultra-sharp visibility from any angle

Slimline display borders, edge-to-edge glass and reduced unit footprint make for easy retrofit in a wider range of dash configurations

Easily build your marine system – from compatible sonar and autopilots to compatible radar, cameras and multimedia – using NMEA 2000® and NMEA 0183 network connectivity and the Garmin Marine Network

Use the exclusive OneHelm™ feature to connect to many third-party devices for full control of your boat on your chartplotter screen

Use built-in Wifi networking to pair with your compatible smartphone using the free ActiveCaptain app for access to OneChart, smart notifications, Garmin Quickdraw community data and more.

Integrated ANT® technology support for use with your compatible quatix® marine smartwatches, gWind™ Wireless 2 transducer, GNX™ Wind marine instrument and wireless remote controls

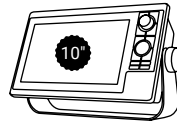
Built-in Garmin SailAssist™ features, including laylines, race features, set and drift, wind data and more

Compatible with Force™ trolling motor for full control of the motor from the chartplotter screen, plus the ability to route to waypoints, follow tracks and more

¹Auto Guidance+ is for planning purposes only and does not replace safe navigation operations • Wi-Fi is a registered trademark of the Wi-Fi Alliance. • The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license.

¹Additional transducers required (sold separately) • ²Auto Guidance+ is for planning purposes only and does not replace safe navigation operations. •

GPSMAP® 1042/1242 SERIES



010-01740-50 | 1042xsv
010-01740-60 | 1042xsv + transducer



010-01741-50 | 1242xsv
010-01741-60 | 1242xsv + transducer

All-in-one networking chartplotter/sonar combos with keypad interfaces and multifunction control knob, traditional and scanning sonar capabilities¹. They're available with built-in Garmin Navionics+™ charts featuring Auto Guidance+² technology. They're also compatible with premium Garmin Navionics Vision+™ cartography.



KEYED INTERFACE WITH
MULTIFUNCTION CONTROL KNOB

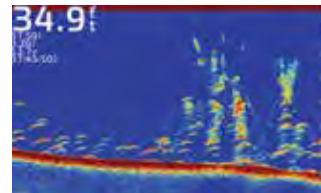
FULLY NETWORKABLE

BUILT-IN CHIRP TRADITIONAL,
CLEARVÜ AND SIDEVÜ
SCANNING SONAR¹

AVAILABLE WITH BUILT-IN GARMIN
NAVIONICS+ CHARTS FEATURING AUTO
GUIDANCE+ TECHNOLOGY²

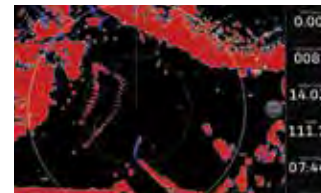


BUILT-IN SONAR¹



All feature incredibly real CHIRP Traditional sonar.

FANTOM™ RADAR



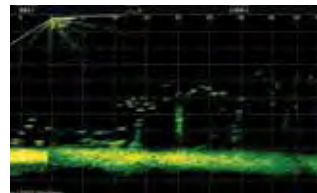
Supports Fantom radar with MotionScope™ technology.

GARMIN NAVIONICS+ CHARTS



Highly detailed maps and cartography featuring Navionics® data and Auto Guidance+ technology².

LIVESCOPE™



Supports all Livescope Sonar systems

ADDITIONAL SERIES FEATURES

Built-in Garmin single-channel 1 kW CHIRP traditional sonar, 1 kW CHIRP ClearVü and CHIRP SideVü scanning sonar¹

Supports all compatible Garmin sonar options plus black box sonar systems; view multiple sources simultaneously

Full digital switching system allows you to power up your boat while away from the dock, switch on pumps and control lights — even underwater lights

Network-compatible connectivity includes Wi-Fi®, ANT® technology, Ethernet ports, NMEA 2000®, HDMI and USB ports, Fusion-Link™ integration

Built-in Garmin SailAssist™ feature provides data, displays and prerace guidance needed to gain a competitive edge

ActiveCaptain® application support

Compatible with Force™ trolling motor for full control of the motor from the chartplotter screen, plus the ability to route to waypoints, follow tracks and more

ECHOMAP® ULTRA SERIES



010-02112-50 | 106sv
010-02527-51 | 106sv + transducer
010-02111-00 | 102sv
010-02526-01 | 102sv + transducer



010-02114-50 | 126sv
010-02529-51 | 126sv + transducer
010-02113-00 | 122sv
010-02528-01 | 122sv with transducer

All the fishing tools are built-in. Chartplotter/sonar combos with keyed-assist touchscreen displays. Built-in CHIRP traditional and Ultra High-Definition ClearVü and SideVü scanning sonar¹. Supports our full line of LiveScope™ sonars. ECHOMAP Ultra models offer preloaded Garmin Navionics+™ integrated coastal and inland data with Auto Guidance+² technology. They're also compatible with premium Garmin Navionics Vision+™ cartography.



KEYED-ASSIST
TOUCHSCREEN DISPLAY

BUILT-IN CHIRP TRADITIONAL AND
ULTRA HIGH-DEFINITION, CLEARVÜ
AND SIDEVÜ SCANNING SONAR¹

PRELOADED WITH GARMIN NAVIONICS+
INTEGRATED COASTAL AND INLAND DATA

SHARE SONAR,
WAYPOINTS, MAPS
AND ROUTES³

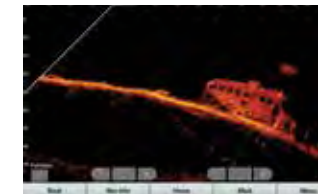


ULTRA HIGH-DEFINITION SONAR



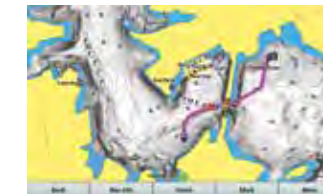
Built-in support for the Ultra High-Definition scanning sonar system, no black box needed.

LIVESCOPE™



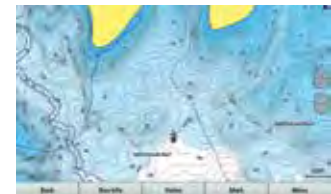
Supports LiveScope sonar.

GARMIN NAVIONICS+ U.S. INLAND MAPS



Highly detailed inland maps featuring Navionics data.

GARMIN NAVIONICS+ U.S. COASTAL CHARTS



Highly detailed coastal maps featuring Navionics data.

ADDITIONAL SERIES FEATURES

Built-in Quickdraw Contours mapping software instantly creates personalized fishing maps on-screen with 1' contours as you fish

Built-in Wi-Fi® connectivity pairs with free ActiveCaptain® app for access to OneChart™ to purchase and download new charts; also receive smart notifications³, software updates, Garmin Quickdraw™ Community data and more

Network capable with NMEA 2000® connectivity and support for heading sensors, autopilots, digital switching and Fusion-Link™ audio system and more

Quick-disconnect bail mount

Compatible with Force™ trolling motor for full control of the motor from the chartplotter screen, plus the ability to route to waypoints, follow tracks and more

Share sonar, waypoints and routes with other ECHOMAP Ultra 10" and 12" units, ECHOMAP UHD 7" and 9" units and ECHOMAP Plus 7" and 9" units.

¹Available only in XSV models with transducer included

²Auto Guidance+ is for planning purposes only and does not replace safe navigation operations. Wi-Fi is a registered trademark of the Wi-Fi Alliance.

¹Available with or without included transducer

²Auto Guidance+ is for planning purposes only and does not replace safe navigation operations

³When paired with a compatible smartphone; see Garmin.com/ble • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

ECHOMAP™ UHD2 5" AND 7" CV SERIES



5"

010-02590-51 | 53cv
010-02591-50 | 54cv
010-02591-51 | 54cv
+ transducer

7"

010-02594-51 - 73cv + transducer
010-02595-51 | 74cv + transducer

Fish like a local with these easy-to-use 5" and 7" keyed chartplotter/sonar combos. Get clear, high-contrast views below your boat with Garmin traditional and ClearVü scanning sonars¹. Know the waters you're in as if you grew up fishing them by using preloaded Garmin Navionics+™ mapping.

- » BRIGHT, SUNLIGHT-READABLE DISPLAY
- BUILT-IN CHIRP TRADITIONAL AND CLEARVÜ SCANNING SONAR
- PRELOADED WITH GARMIN NAVIONICS+ INTEGRATED COASTAL OR INLAND DATA
- SHARE SONAR, WAYPOINTS AND ROUTES WITH OTHER ECHOMAP DEVICES

«

SONAR SUPPORT



With crisp, clear traditional sonar and brilliant ClearVü sonar, the fish will have nowhere to hide.

VIVID COLOR PALETTES



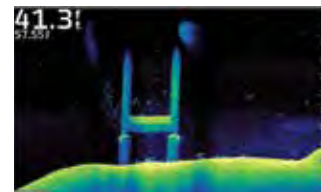
High-contrast vivid scanning sonar color palettes make it easier than ever to distinguish targets and structure.

BUNDLE YOUR TRANSDUCER



Your ECHOMAP UHD2 device supports a variety of Garmin transducers for two types of sonar: Garmin traditional and ClearVü scanning sonar.

WIRELESS NETWORKING



If you have another compatible ECHOMAP UHD2 chartplotter on your boat, the 5" and 7" models can wirelessly share information — such as sonar, waypoints and routes — with them.

ADDITIONAL SERIES FEATURES

Use built-in Wi-Fi® networking to pair with the free ActiveCaptain® app for access to OneChart™, smart notifications, software updates and more²

Choose preloaded LakeVü g3 inland maps, BlueChart® g3 coastal charts or worldwide basemap with support for Garmin Navionics+ and Garmin Navionics Vision+ marine cartography



¹Transducer required (sold separately)

²Requires the ActiveCaptain app on your compatible smartphone paired to the ECHOMAP UHD2 5" and 7" chartplotters

ECHOMAP™ UHD2 6" AND 7" 9" SV SERIES

ECHOMAP® PLUS SERIES



6"

010-02679-01 | 62sv + transducer
010-02679-00 | 62sv 63sv + transducer
010-02680-01 | 63sv
010-02681-00 | 64sv + transducer

7"

63sv + transducer
010-02679-01 | 62sv
010-02683-00 | 72sv
010-02683-01 | 72sv + transducer
010-02684-00 | 73sv
010-02684-01 | 73sv + transducer
010-02685-00 | 74sv
010-02685-01 | 74sv + transducer
010-02686-00 | 75sv
010-02686-01 | 75sv + transducer

9"

010-02687-00 | 92sv
010-02687-01 | 92sv + transducer
010-02688-00 |
010-02688-01 | 93sv + transducer
010-02689-01 | 94sv + transducer
010-02689-00 | 94sv

These 6", 7" and 9" touchscreen chartplotter/sonar combos with keyed assist¹ include or support transducers for Ultra High-Definition ClearVü and SideVü scanning sonar plus Garmin CHIRP traditional sonar. They're also compatible with LiveScope™ live scanning sonar, and premium Garmin Navionics Vision+™ cartography.



010-01885-05 | 43cv + transducer
010-01886-05 | 44cv + transducer
010-01887-05 | 45cv + transducer

Easy-to-use, easy-to-set up chartplotter/sonar combos with keyed-assist touchscreens¹, incredibly clear CHIRP traditional sonar, CHIRP ClearVü and CHIRP SideVü scanning sonar. Offers choice of preloaded BlueChart® g3 U.S. coastal charts or LakeVü g3 inland maps², each featuring Navionics® data and Auto Guidance technology³.

» BUILT-IN CHIRP TRADITIONAL AND ULTRA HIGH-DEFINITION CLEARVÜ AND SIDEVÜ SCANNING SONAR²
••• WIRELESSLY SHARE SONAR, WAYPOINTS, MAPS AND ROUTES WITH ANOTHER UHD2 CHARTPLOTTER²
••• NMEA 2000® AND NMEA 0183 NETWORK SUPPORT FOR AUTOPILOT AND ENGINE DATA
 ••• AVAILABLE WITH BUILT-IN GARMIN NAVIONICS+ COASTAL OR INLAND DATA WITH AUTO GUIDANCE+ TECHNOLOGY³
«

ULTRA HIGH-DEFINITION SONAR



Built-in support for the Ultra High-Definition scanning sonar system, no black box needed.

LIVESCOPE™



Features built-in support for LiveScope system sonar and the full line of live sonar products (optional transducers sold separately).

PRELOADED MAPPING



Navigate coastal or inland waters with available built-in Garmin Navionics+™ cartography featuring Auto Guidance+ technology.

FORCE™ TROLLING MOTOR COMPATIBLE



Get full control of the motor from the screen, plus the ability to route to waypoints, follow tracks and more (7" and 9" models only).

ADDITIONAL SERIES FEATURES

Quick-release bail mount for fast and easy mobility

Built-in Wi-Fi® connectivity pairs with free ActiveCaptain® app for access to OneChart™ to purchase and download new charts; also receive smart notifications⁴, software updates, Garmin Quickdraw™ Community data and more

7" and 9" models are compatible with Force™ trolling motor for full control of the motor from the chartplotter screen, plus the ability to route to waypoints, follow tracks and more

7" and 9" models can share sonar, waypoints and routes with other ECHOMAP UHD 7" and 9" units and ECHOMAP Ultra 10" and 12" units

» SUNLIGHT-READABLE DISPLAY
 ••• BUILT-IN CHIRP TRADITIONAL AND CLEARVÜ SCANNING SONAR
 ••• PRELOADED WITH BLUECHART G3 OR LAKEVÜ G3 CARTOGRAPHY
 ••• BUILT-IN QUICKDRAW CONTOURS
 «

BUILT-IN SONAR



All feature incredibly real CHIRP traditional and scanning sonar.

QUICKDRAW CONTOURS MAPPING



Create and store maps as you fish with 1' contours for up to 2 million acres.

LAKEVÜ G3



Highly detailed inland maps featuring Navionics data.

BLUECHART G3 CHARTS



Highly detailed coastal charts featuring Navionics data.

THE LINEUP

	43cv 010-01885-05	44cv 010-01886-05	45cv 010-01887-05
Preloaded BlueChart g3 Charts		•	
Preloaded LakeVü Maps	•		
Preloaded Canada Maps			•
CHIRP ClearVü ¹	•	•	•
CHIRP SideVü ¹			•
CHIRP Traditional ¹	•	•	•
Panoptix™ Support			
Quickdraw Contours	•	•	•
Quick Release Mount	•	•	•

¹Available with or without included transducer • ²LiveScope sonar cannot be shared wirelessly between two Echomap UHD2 chartplotters. CV units support ClearVü sonar only. SV units support both ClearVü and SideVü sonars. • ³Auto Guidance is for planning purposes only and does not replace safe navigation operations ⁴When paired with a compatible smartphone; see Garmin.com/ble

¹Available with or without included transducer

²This model does not support 3D mapping views on BlueChart g3 Vision

³Auto Guidance is for planning purposes only and does not replace safe navigation operations

TROLLING MOTORS



FORCE® TROLLING MOTOR SERIES

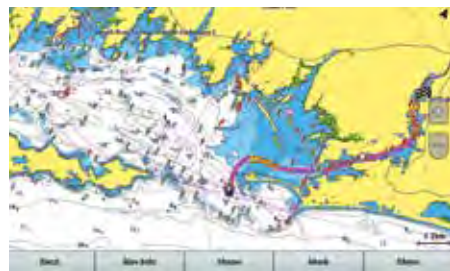
Move your fishing to a higher level with force. The Force trolling motor is the most powerful and most efficient 57" freshwater trolling motor available¹. Wireless chartplotter connectivity provides navigation, autopilot and anchor lock features. Use the precise anchor lock to hold your boat in the same location while you fish. Force includes a convenient wireless foot pedal that provides instant control and responsiveness yet feels and steers like a cable-steered pedal. See more fish and structure clearly with integrated Ultra High-Definition scanning sonar. It also includes a handheld remote control with a built-in sunlight-readable display. The remote gives you complete control of the trolling motor and simple point-and-go gesture steering.

You get the best of all three. The powerful Force trolling motor has the power to move you from spot to spot more quickly and stand up better to winds and currents. Even with all that power, it is also the most efficient trolling motor available so you can count on it to fish all day. And it is still whisper quiet. Its high-efficiency brushless motor operates at either 36 V or 24 V. When running at 24 V, it delivers comparable thrust to our competitors' 36 V motors. The most powerful, most efficient and quiet trolling motor — it's everything you could want in a trolling motor.

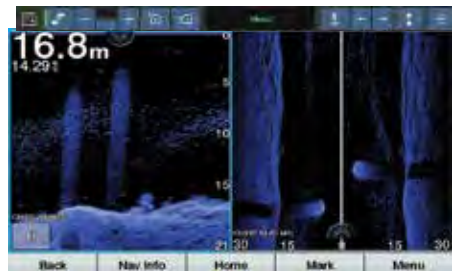
Force Trolling Motor 50" - Part no. 010-02024-00
Force Trolling Motor 57" - Part no. 010-02025-00



CHARTPLOTTER INTEGRATION



Simple integration with your Garmin chartplotter via a wireless connection makes using the built-in autopilot easy. Create routes to your favorite waypoint and follow tracks while you fish.



The Force trolling motor comes with an integrated transducer with CHIRP traditional and Ultra High-Definition ClearVü and SideVü scanning sonars with imperceptible sonar noise interference.

ADDITIONAL SERIES FEATURES

- Includes the power you need to counter winds and currents with the efficiency to fish all day
- Wireless chartplotter integration and built-in autopilot get you to fish, along with anchor lock to stay on them
- Wireless foot pedal provides instant control and responsiveness; feels and steers like a cable-steered pedal
- Includes integrated CHIRP traditional and Ultra High-Definition ClearVü and SideVü scanning sonars with imperceptible sonar noise interference

- Floating remote control gives you full control of the trolling motor and simple point-and-go gesture steering

WIRELESS FOOT PEDAL

Part no. : 010-12834-00



Enjoy the convenience of a wireless foot pedal. It provides instant control and responsiveness yet feels and steers just like a cable-steered pedal. It operates wirelessly using AA batteries, or — if you prefer — it can be hardwire installed.

REMOTE CONTROL

Part no. : 010-12833-00

The included handheld remote control with a sunlight-readable, transfective display offers total control of the trolling motor from anywhere on your boat along with unique point-and-go gesture steering capabilities. There are also user-programmable keys on the remote, which you can use for control of your chartplotter. No need to worry if the remote takes a trip overboard, because it's water-resistant, and it floats.



¹In compliance with ISO standard 13342

RADARS

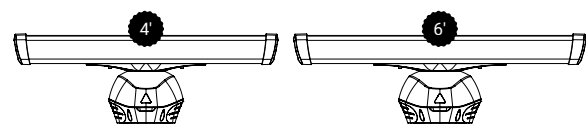


GMR FANTOM™ RADARS

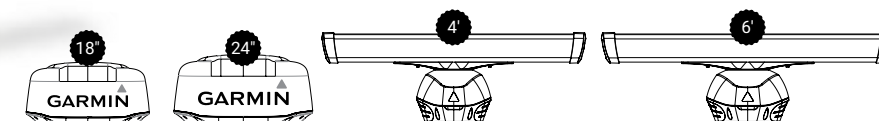


GMR FANTOM™ 254/256 SERIES

With 250 watts of solid-state output, the new GMR Phantom 254 and 256 series radars give you the power you need for serious scanning you can trust. Your choice of 4' or 6' open arrays each provide the reach to track severe weather up to 96 nautical miles away. So you can see it sooner to avoid it better. Then for added safety on the water, exclusive MotionScope™ technology detects and highlights moving targets to help you recognize potential collision hazards or even track bird flocks that can lead you to the best fishing spots out there.



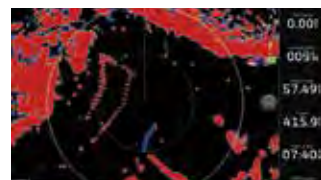
GMR FANTOM™ RADARS



GMR Phantom radars feature MotionScope™ technology, which uses the Doppler effect to detect and highlight moving targets to help you avoid potential collisions, find flocks of birds and track weather. These radars fully integrate with select Garmin chartplotters.

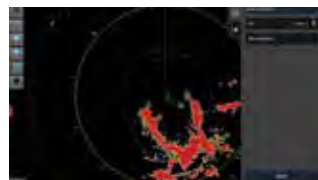
SPECIAL FEATURES

MOTIONSCOPE TECHNOLOGY



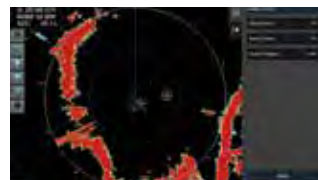
Detect and highlight moving targets in different colors to help avoid collisions, find flocks of birds and track weather from 20' to 96 nautical miles.

AUTOMATIC MARPA ACQUISITION



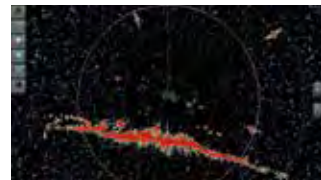
Enables automatic triggering and tracking of up to 30 MARPA traffic targets with no user prompting required.

SCAN-TO-SCAN AVERAGING



This technology aids in the reduction of sea clutter and interference so you have a clear view of what's out there.

AUTO BIRD GAIN



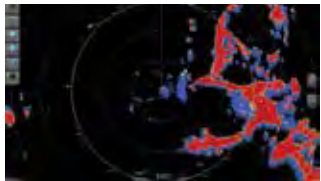
Where there are birds on the water's surface, there are often fish below it. Auto bird gain helps you locate flocks of birds at the water's surface.

PULSE COMPRESSION



This feature provides high-resolution imaging while maximizing energy to enhance target detection and identification.

ECHO TRAILS



The radar's true echo trails feature displays a historical "trail" on the screen to help you quickly identify moving targets.

FEATURED — GMR FANTOM™ 24X

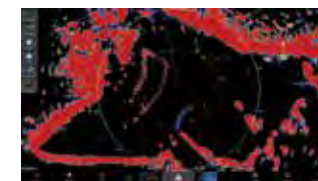
MOTIONSCOPE TECHNOLOGY

PULSE COMPRESSION TECHNOLOGY

TRUE ECHO TRAILS HELP YOU QUICKLY IDENTIFY MOVING TARGETS IN RELATION TO YOUR BOAT

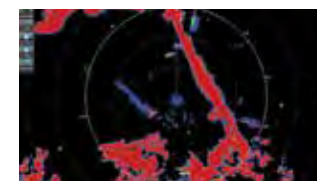
MARPA AUTOMATIC ACQUISITION ALLOWS FOR TRIGGERING AND TRACKING WITH NO USER PROMPTING

MOTIONSCOPE



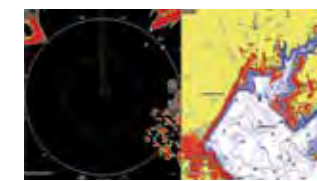
MotionScope technology highlights moving targets so you can navigate around other boats or severe weather — or toward birds feeding at the surface.

ECHO TRAILS



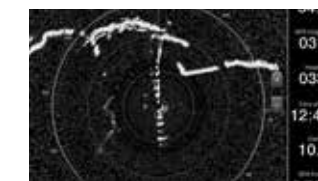
The echo trails feature leaves a historical "trail" on the screen to help you quickly identify moving targets.

DUAL RANGE WITH OVERLAY



Dual range overlays show close and long-range, split-screen images at the same time.

AUTO BIRD GAIN



Auto bird gain helps locate flocks of birds at the water's surface where baitfish are also likely to be found.

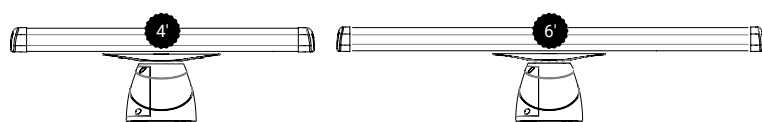
THE LINEUP

	GMR Phantom 18X	GMR Phantom 24X	GMR Phantom 54	GMR Phantom 56	GMR Phantom 124	GMR Phantom 126	GMR Phantom 254	GMR Phantom 256
	010-00959-00	010-00960-00	K10-00012-17	K10-00012-18	K10-00012-08	K10-00012-08	K10-00012-22	K10-00012-22
Wattage	50	50	50	50	120	120	250	250
Dome Dimension	20" dia., 9.8" high	25.4" dia., 9.8" high						
Open Array			4'	6'	4'	6'	4'	4'
Dynamic Auto Gain and Sea Filter Settings	•	•	•	•	•	•	•	•
Target Size Adjustment	•	•	•	•	•	•	•	•
MARPA Target Tracking	Yes ¹	Yes ¹	Yes ¹	Yes ¹	•	•	•	•
Dual Radar Support	•	•	•	•	•	•	•	•
Guard Zone	•	•	•	•	•	•	•	•
RPM	24/48	24/48	24/48	24/48	24/48	24/48	24/48	24/48
Beam Width	5.2° horizontal, 25° vertical	3.7° horizontal, 25° vertical	1.8° horizontal, 23° vertical	1.25° horizontal, 23° vertical	1.8° horizontal, 23° vertical	1.25° horizontal, 23° vertical	1.8° horizontal, 23° vertical	1.25° horizontal, 23° vertical
Minimum Range	6 meters	6 meters	6 meters	6 meters	6 meters	6 meters	6 meters	6 meters
Maximum Range	48 nm	48 nm	72 nm	72 nm	96 nm	96 nm	96 nm	96 nm

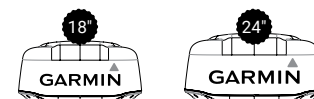
¹Requires heading sensor, sold separately

GMR™ XHD2 RADARS

GMR® XHD DOME RADARS



GMR xHD2 open-array radars are designed for serious seafarers of larger yachts and sport fishing boats. Designed for easy installation and use, there are no complex user settings to fuss with. Just install it and start using. GMR xHD2 radars provide reliable, optimum performance in all conditions.



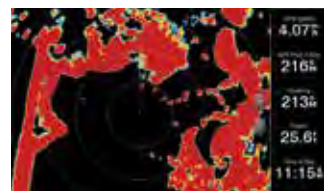
Our 4 kW high-definition GMR xhd dome radars pair ease of use with advanced open-array features. Dual-range operation allows fully independent split-screen display of far and close radar views. Their intuitive operation makes modes and settings simple to understand so you can enjoy great performance without a lot of technical know-how.

FEATURED — GMR 2526 XHD2

- » POWER TO DELIVER EXCELLENT TARGET SEPARATION AND AMAZING IMAGE CLARITY
- PULSE EXPANSION MAXIMIZES ENERGY ON TARGET
- AUTO BIRD GAIN HELPS LOCATE FLOCKS OF BIRDS AND HELPS SIGNAL THE LOCATION OF BIG GAME FISH
- OVERLAY RADAR ONTO CHART SCREEN AS A SINGLE DISPLAY OR SPLIT SCREEN WITH INDEPENDENT RANGE SETTINGS

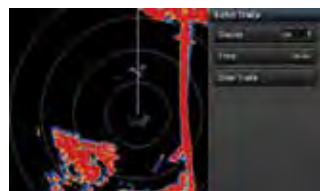
«

PULSE EXPANSION



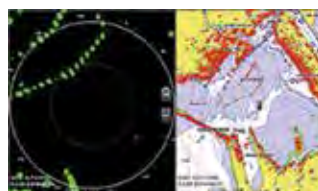
The Pulse Expansion feature maximizes energy on targets to provide a larger target size on the chartplotter.

ECHO TRAILS



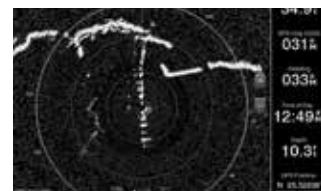
The echo trails feature leaves a historical "trail" on the screen to help you quickly identify moving targets.

DUAL RANGE WITH OVERLAY



Dual-range overlays show close and long-range, split-screen images at the same time.

AUTO BIRD GAIN



Auto bird gain helps locate flocks of birds at the water's surface where baitfish are also likely to be found.

THE LINEUP

	GMR 424 XHD2 K10-00012-08	GMR 1224 XHD2 K10-00012-11	GMR 1226 XHD2 K10-00012-12	GMR 2526 XHD2 K10-00012-16
4' Open Array with Pedestal	•	•		
6' Open Array with Pedestal			•	•
Wattage	4 kW	12 kW	12 kW	25 kW
Dynamic Auto Gain and Sea Filter Settings	•	•	•	•
Target Size Adjustment	•	•	•	•
MARPA Target Tracking	•	•	•	•
Dual Radar Support	•	•	•	•
Guard Zone	•	•	•	•
Dual Range	•	•	•	•
Power Consumption	65 W typical	90 W typical	90 W typical	100 W typical
RPM	24/48	24/48	24/48	24/48
Beam Width	1.8° horizontal, 23° vertical	1.8° horizontal, 23° vertical	1.1° horizontal, 23° vertical	1.1° horizontal, 23° vertical
Minimum Range	20 meters	20 meters	20 meters	20 meters
Maximum Range	72 nm	72 nm	72 nm	96 nm

¹Requires heading sensor, sold separately

FEATURED — GMR 24 XHD

- » 4 KW HIGH-DEFINITION 24" DOME RADAR
- 48 OR 24 RPM ROTATION SPEEDS
- 48-MILE MAX RANGE SETTING
- DUAL-RANGE OPERATION

«

THE LINEUP

	GMR 24 XHD 010-00960-00	GMR 18 XHD 010-00959-00	GMR 18HD+ 010-01719-00
4 kW Transmit Power	•	•	•
Dual Range	•	•	•
Radar Overlay Support	•	•	•
Power Consumption	30 W typical, 48 W max	30 W typical, 48 W max	18.1-24.4 W transmit
Power Input	11-35 V DC	11-35 V DC	11-35 V DC
RPM	24/48	24/48	24
Beam Width	3.7° horizontal, 25° vertical	5.2° horizontal, 25° vertical	5.2° horizontal, 25° vertical
Minimum Range	20 meters	20 meters	20 meters
Maximum Range	48 nm	48 nm	36 nm



SONAR BLACK BOXES



SONAR BLACK BOXES

GSD™ 26



The GSD 26 professional CHIRP sonar module is serious sportfishing technology that takes clear, concise target separation to far greater depths than traditional sonar.

GSD™ 25



The GSD 25 premium 1 kW CHIRP traditional sonar module is a remote network solution that provides outstanding fish-finding and bottom-tracking capabilities with CHIRP ClearVü and CHIRP SideVü scanning sonar.

GSD™ 24



With up to 2,000 watts of transmit power and a high-dynamic range receiver, the GSD 24 brings high-definition, dual-frequency imaging to your compatible Garmin chartplotter.

GCV™ 20



The Garmin GCV 20 Ultra High-Definition black box sonar adds both SideVü and ClearVü with CHIRP scanning sonar technology to your compatible Garmin chartplotter.

THE LINEUP

	GSD 26 010-00958-00	GSD 25 010-01159-00	GSD 24 010-00957-00	GCV 20 010-02055-10
Garmin Marine Network Ports	1	1	1	3
Frequencies Supported	25-210 kHz (dependent on transducer)	Traditional: 50/200, 77/200, 83/200 Single Channel CHIRP: 40-250 Dual Channel CHIRP: 40-250 SideVü/ClearVü: CHIRP 455/800 and CHIRP 260/455 (dependent on transducer)	50/200 kHz	Ultra High-Definition ClearVü: 0.8 MHz (800 kHz), CHIRP range: 760-880 kHz Ultra High-Definition SideVü: 1.2 MHz (1,200 kHz), CHIRP range: 1,060-1,170 kHz
Transmit Power	25-3,000 W rms	1 kW	25-2,000 W rms	500 W rms
ClearVü/SideVü		•		•
Max Depth	10,000 ft (3,048 m)	5,000 ft (1,524 m)	5,000 ft (1,524 m)	200' Ultra High-Definition ClearVü 125' to each side Ultra High-Definition SideVü 250' total, at a maximum depth of 30'
Traditional CHIRP Capable	•	•		
Power Input	10-35 V	10-35 V	10-35 V	
Power Usage	100 W maximum	27 W maximum	40 W maximum	
Compass-safe Distance	23.6 in (60 cm)	11.8 in (30 cm)	15.75 in (40 cm)	10.2 in (26 cm)



AUTOPILOTS



GHP™ REACTOR 40 AUTOPILOT SERIES



The Reactor™ 40 hydraulic autopilot keeps you on course at cruising speeds, minimizes heading error, reduces power consumption and more so you can be more comfortable while cruising. Solid-state 9-axis Attitude Heading Reference System (AHRS) sensors provide reliable vessel control in all sea and weather conditions and consistent heading accuracy within 2 degrees.

Our Shadow Drive™ technology lets you easily take back control of the helm just by turning the wheel — automatically disengaging the autopilot. It's easy to control from your compatible Garmin chartplotter, and Reactor 40 can follow auto-guided routes¹ with compatible chartplotters and Garmin Navionics+™ and Garmin Navionics Vision+™ cartography, as well as legacy BlueChart® g3 and g3 Vision charts. Flexible mounting options and quick, simple commissioning make installation easier.

For boats without a good, clean magnetic location to mount the CCU, Reactor 40 also supports heading inputs from third-party NMEA 2000® sensors such as GPS compasses.

ADDITIONAL SERIES FEATURES

- 9-axis AHRS sensors provide reliable vessel control in all sea and weather conditions and consistent heading accuracy within 2 degrees
- Shadow Drive™ technology automatically disengages the autopilot when you turn the wheel
- Control the autopilot directly from the screen of your compatible chartplotter
- Access Auto Guidance+¹ with compatible chartplotters and Garmin Navionics+ and Garmin Navionics Vision+ cartography. Auto Guidance is also available with BlueChart g3 and g3 Vision charts
- Supports third-party heading sensors or GPS compasses via the NMEA 2000 network

ACCESSORIES FOR REACTOR AUTOPILOTS



GHC™ 50 CONTROL UNIT
Part no: 010-02731-00

With its 5" WVGA edge-to-edge glass touchscreen interface and both wireless and wired control options, the GHC 50 autopilot instrument is styled to match the latest GPSMAP® premium chartplotters. It's powered by the NMEA 2000 network for seamless connectivity with Garmin MFDs and other units on your vessel.



REACTOR™ AUTOPILOT REMOTE
Part no: 010-12833-10

The ultimate in onboard freedom and convenience all in the palm of your hand. Bright color display and new gesture controls let you course-correct with ease.



GRF 10 RUDDER SENSOR
Part no: 010-11829-00

Pair this GRF 10 rudder feedback sensor with your autopilot to provide rudder position feedback to detect and avoid rudder stops.



GNA 10 JOG LEVER ADAPTER
Part no: 010-13007-00

Use the GNA 10 to connect a jog lever to Reactor 40 autopilots on displacement hull work boats or trawlers. Adjust heading hold with the jog lever or access Power Steering mode to move the rudder without autopilot guidance.

GHP™ REACTOR 40 STEER-BY-WIRE AUTOPILOT

These corepacks bring our GHP Reactor 40 autopilot technology to vessels with select steer-by-wire control systems, including Yanmar® Electric Power Steering for the JC10 Joystick system, Teleflex® Optimus™ systems, Yamaha® Helm Master™ systems, Volvo Penta® Inboard Performance Systems and ZF® 2800 Pod Drive steering systems.



GHP REACTOR 40 STEER-BY-WIRE STANDARD COREPACK
Part no: 010-02794-03



GHP REACTOR 40 STEER-BY-WIRE YAMAHA® HELM MASTER™ COREPACK
Part no: 010-02794-04



GHP REACTOR 40 STEER-BY-WIRE VOLVO PENTA® COREPACK
Part no: 010-02794-06

ADDITIONAL SERIES FEATURES

- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is unstable
- Standard corepack: supports steering systems from Yanmar® JC10 Joystick system, Teleflex® Optimus™ systems and ZF® 2800 system
- Corepack for Yamaha®: supports Yamaha Helm Master systems
- Corepack for Volvo Penta®: supports Volvo Penta IPS and stern drive joystick systems
- Minimizes heading error, course deviation, rudder movement, power consumption, while providing a comfortable ride
- Mounts in any orientation
- NMEA 2000 interface
- Minimal commissioning and calibration takes just five minutes
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Connects to up to 3 GHC™ 50 control units
- Add optional Autopilot Remote for control anywhere on your boat

GHP™ REACTOR 40 HYDRAULIC AUTOPILOTS

GHP REACTOR 40 HYDRAULIC COREPACK (PUMP SOLD SEPARATELY) Part no: 010-02794-00
 GHP REACTOR 40 HYDRAULIC WITH SMARTPUMP COREPACK Part no: 010-02794-01

This robust unit gives powerboat users an easy-to-use autopilot system to rely on for navigation. The optional SmartPump features a more powerful, brushless motor-driven pump that is suitable for most users. It offers Intelligent Rudder Rate Technology (IRRT) which adjusts the rudder speed to the speed of your boat to ensure safer and more stable operation.



ADDITIONAL SERIES FEATURES

- Complete packages designed for hydraulically steered powerboats and sailboats
- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is pitching and rolling
- Minimizes heading error, course deviation, rudder movement, power consumption, while providing a comfortable ride
- Mounts in any orientation
- Minimal commissioning and calibration takes just five minutes
- One SmartPump™ fits most hydraulically steered boating applications
- NMEA 2000 interface

- Small, brushless SmartPump™ delivers better thermal performance, higher reliability, and lower power consumption
- Optimal performance for all steering cylinder sizes from 4 to 17 cubic inches
- Intelligent Rudder Rate Technology (IRRT)
- Patented Shadow Drive™ technology keeps you in control even when autopilot is engaged
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Connects to up to 3 GHC™ 50 control units

PUMPS

1.2-LITER PUMP KIT

Part no: 010-00705-64



2-LITER PUMP KIT

Part no: 010-00705-63



GHP™ REACTOR 40 MECHANICAL AUTOPILOT

GHP REACTOR 40 MECHANICAL / RETROFIT / SOLENOID COREPACK Part no: 010-02794-02

You never know when an extra crew member can come in handy. Maybe the wind picks up, and you have to leave the wheel to raise the sails or pull in fenders. Even in calm conditions, you sometimes need to hand over to someone else. That's where this below-deck autopilot system comes in, ideally suited for sailboats or powerboats with direct or cable-actuated steering systems.



ADDITIONAL SERIES FEATURES

- Ideal for sailboats with direct or cable-actuated steering systems
- Retrofit with your existing autopilot actuator or use with one of several Garmin linear actuator options (sold separately)
- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is pitching and rolling
- Minimises heading error, course deviation, rudder movement, power consumption, while providing a comfortable ride
- Mounts in any orientation
- Minimal commissioning and calibration takes just five minutes
- Engineered from corrosion-resistant components

- NMEA 2000 interface
- Enter your boat's displacement or its planning speed, and Reactor will take into consideration the various steering characteristics that are required
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Connects to up to 3 GHC™ 50 control units
- The Reactor 40 autopilot can follow auto-guided routes with compatible chartplotters and Garmin Navionics+™ and Garmin Navionics Vision+™ cartography, as well as legacy BlueChart g3 and g3 Vision charts
- Add optional Autopilot remote for control anywhere on your boat

DRIVE UNITS

CLASS A MECHANICAL DRIVE UNIT FOR BOATS UP TO 13 TONS

Part no: 010-11572-00



CLASS B COMPACT HYDRAULIC DRIVE UNIT FOR BOATS UP TO 22 TONS

Part no: 010-12029-00



CLASS B HYDRAULIC DRIVE UNIT FOR BOATS UP TO 36 TONS

Part no: 010-11573-00



GHP™ COMPACT REACTOR 40 HYDRAULIC AUTOPILOTS

Designed for boats less than 30 feet long to provide relief from manually holding the wheel to maintain course in heavy currents or winds¹. Solid-state 9-axis AHRS technology delivers less heading error, course deviation, rudder movement, power consumption and a more comfortable ride. Easy to install with flexible mounting options and quick, easy commissioning via a compatible chartplotter or GHC™ 50.



GHP COMPACT REACTOR 40 HYDRAULIC COREPACK WITH GHC™ 50 AND SHADOW DRIVE™
Part no: 010-02794-08



GHP COMPACT REACTOR 40 HYDRAULIC COREPACK WITH GHC 50
Part no: 010-02794-07



GHP COMPACT REACTOR 40 HYDRAULIC COREPACK
Part no: 010-00705-06

ADDITIONAL SERIES FEATURES

- Solid-state 9-axis AHRS, reacts to the sea to hold course, even when the boat is unstable
- Designed for boats less than 30 feet long
- Available in two-pack configurations:
 - GHP Compact Reactor Hydraulic Autopilot with GHC 50 and Shadow Drive™
 - GHP Compact Reactor Hydraulic Autopilot with GHC 50 and GHP Compact Reactor Hydraulic Autopilot
- Provides an extra set of hands, relief from manually holding the wheel to remain on course in heavy currents or winds
- Easy-to-install CCU provides flexible mounting options and quick, easy commissioning
- NMEA 2000 interface
- Minimal commissioning and calibration takes just five minutes
- 1 L geared pump supports hydraulic steering cylinders up to 10 cubic inches
- Provides advanced features to compatible Garmin chartplotters such as route following, route engage, and Autopilot Virtual Device
- Easy to add GHC 50 and Garmin patented Shadow Drive at any time if not initially included
- Add optional Autopilot remote for control anywhere on your boat

REACTOR™ 40 KICKER AUTOPILOT

REACTOR™ 40 KICKER AUTOPILOT WITH GHC™ 50 DISPLAY Part no: 010-02794-09
REACTOR™ 40 KICKER AUTOPILOT WITHOUT GHC™ 50 DISPLAY Part no: 010-00705-95

The Reactor 40 kicker autopilot is specially designed for boats with small gasoline outboard motors up to 20 horsepower. Whether you're going for salmon, trout, walleye or some other species, your Reactor 40 kicker autopilot can help you maintain heading hold and route to keep you on course — even against wind, waves or heavy current. It includes a convenient floating handheld remote control with bright, sunlight-readable display. The Reactor 40 kicker autopilot makes it easy to fine-tune your autopilot throttle setting with the touch of a button and to quickly drop to idle speed when netting a fish. Enjoy easy integration with our included GHC™ 50 display, compatible Garmin chartplotters or NMEA 2000® network-compatible GPS system for a seamless onboard setup.



ADDITIONAL SERIES FEATURES

- Specially designed for boats with small gasoline outboard motors up to 20 horsepower
- Helps maintain heading hold and route to keep you on course — even against wind, waves or heavy current
- Includes convenient floating handheld remote control with a bright, sunlight-readable display
- Easily fine-tune autopilot throttle setting with the touch of a button to quickly drop to idle speed when netting a fish
- Easy to install and integrate with our included GHC 50 display, compatible Garmin chartplotters or NMEA 2000 network-compatible GPS system



COMMUNICATIONS



VHF

CORTEX® V1 MARINE RADIO

Part no: 010-02814-20

A revolution in marine communication that will change your VHF experience forever. With an intuitive touchscreen handset engineered for durability, the Cortex V1 is a communications hub that integrates strong, clear audio with the power of AIS collision avoidance — plus remote systems monitoring and control from on board or ashore.

- With up to 85 dBA of crystal-clear audio power, the Cortex V1 system delivers superior sound quality.
- The included Cortex H1 handset offers easy one-hand operation with touchscreen, click-wheel and select keys.
- A built-in SOTDMA AIS transponder proactively warns you of certain collision threats with voiced alerts.
- Quickly initiate digital selective calling direct calls by tapping the AIS boat symbol on the handset's touchscreen.
- Cortex apps let you monitor boat systems, receive alerts and remotely control devices from your compatible smartphone.
- NMEA 2000® networking allows you to view Cortex data on your connected MFDs and chartplotters.



VHF, AIS AND MONITORING

Cortex V1 is an advanced multi-station VHF radio with remote monitoring and control. The Cortex V1 system includes a Cortex M1 hub and Cortex H1 tethered handset. Connect additional Cortex handsets (sold separately) for even more freedom and control on board.

ONE-TOUCH DSC

Cortex lets you initiate DSC direct calls with other vessels by simply tapping the vessel icon on your handset. Initiate VHF calls to friends from the saved favorites list, nearby vessel directory list or quickly hail another vessel from the collision avoidance situation screen when every second counts.

ANCHOR WATCH

Whether you're onboard or ashore, you can know for sure your boat is securely anchored. Cortex smartAIS accurately tracks boat movement, heading and bow position, alerting you if your anchor drags.

COLLISION AVOIDANCE

Cortex smartAIS continuously monitors AIS information from other boats and calculates crossing situations, generates collision alarms and provides easy-to-understand avoidance cues. Data from its built-in heading sensor is also broadcast, so other vessels can clearly identify which direction your boat is moving.

VHF VOICE FLEXIBILITY

Connect up to 5 portable and power-tethered style Cortex handsets wirelessly via Wi-Fi® link to the Cortex M1 hub. Keep a portable handset with you for continual VHF communications access from anywhere on your boat.

VHF 115 MARINE RADIO

Part no: 010-02096-00



Essential fixed-mount VHF marine radio with 25-watt transmit power and built-in GPS. Standard Class D digital selective calling (DSC) and easy plug-and-play installation to compatible chartplotters and MFDs via the NMEA 2000® network.

VHF 315 MARINE RADIO

Part no: 010-02047-00



Modular black box VHF marine radio with built-in GPS receiver¹. Includes GHS II Wired VHF Handset and active speaker to use as an intercom between up to 3 stations. Connect a 30-watt capable hailer for two-way broadcast and listening. Easy plug-and-play installation to compatible chartplotters and MFDs the NMEA 2000® network.

VHF 215 MARINE RADIO

Part no: 010-02097-00



Fixed-mount VHF marine radio with relocatable fist microphone handset. Compatible with GHS II Wired VHF Handset. It has 25-watt transmit power with built-in GPS and standard Class D DSC, and easy plug-and-play installation to compatible chartplotters and MFDs via the NMEA 2000® network.

GHS™ 11 WIRED VHF HANDSET

Part no: 010-01759-00



Full-function wired VHF Handset compatible with VHF 215, VHF 215 Garmin AIS and VHF 315. Clear 2" display, mounting flexibility using the 32" extension cable from the VHF marine radio and convenient 1' to nearly 5' coiled cable to the handset.

VHF 215 AIS MARINE RADIO

Part no: 010-01654-00



Fixed-mount VHF marine radio with built-in Class B CSTDMA AIS receiver. Easy plug-and-play installation to compatible chartplotters and MFDs to display AIS targets via the NMEA 2000® network. Flexible mounting with relocatable fist microphone handset and compatible with GHS II Wired VHF Handset.

THE LINEUP

	VHF 115 010-02096-00	VHF 215 010-02097-00	VHF 215 AIS 010-02098-00	VHF 315 010-02047-00	Cortex V1 010-02814-20
Display	2.5"	3.2"	3.2"	2"	4" color touch
Intercom	•	Yes (requires GHS 11i)	Yes (requires GHS 11i)	Yes (up to 3 stations)	Yes (one way)
Hailer & Horn	•	Yes	Yes	Yes	Yes
Built-in AIS	•	•	Class B CSTDMA	•	Class B SOTDMA
Compatible Handsets	•	GHS 11i (additional)	GHS 11i (additional)	GHS 11i (additional)	Cortex H1P and H1P (up to 5 direct to Cortex WiFi®)
Channel Scanning	Yes	Yes	Yes	Yes	Yes
Watch	Dual/Tri	Dual/Tri	Dual/Tri	Dual/Tri	Omni
Record/Playback	•	•	•	•	Yes (all channels)
Off-boat Monitoring	•	•	•	•	Yes

¹VHF 315 requires external antenna (sold separately)

AIS

CORTEX® M1 SMARTAIS

Part no: 010-02815-20

The Cortex M1 hub combines advanced collision avoidance technology with proactive alerting plus remote monitoring and control of onboard systems from your compatible smartphone.

- A high-speed Class B SOTDMA smartAIS transponder transmits your boat's location and heading and proactively warns of certain collision threats.
- Features Anchor Watch for anchor drag alerts and receives man overboard beacon transmissions.
- Cortex M1 is VHF-ready. Simply add a Cortex handset (sold separately) for full VHF radio capability.
- Cortex apps let you monitor boat systems, receive alerts and remotely control devices from your compatible smartphone.
- A GPIO port and supplied cable allow you to monitor bilge pumps, security sensors, shore power and more.
- NMEA 2000® networking allows you to view Cortex data on your connected MFDs and chartplotters.



ANCHOR WATCH

Using actual anchor position from the bow and the Cortex built-in heading sensor, smartAIS tracks boat movement and sounds an alarm if the anchor drags or if there is a change in wind speed, direction or water depth. While on your boat, get alerts on your compatible mobile device via the Cortex Onboard™ app — or via the Cortex Monitor™ app when you're ashore.

REMOTE MONITORING AND CONTROL

Check boat status, receive alerts and control devices with Cortex remote monitoring access using the Cortex Monitor app. Directly connect up to 5 external sensors to your system for added monitoring capability.

COLLISION AVOIDANCE

Cortex M1 is a full Class B SOTDMA transceiver combining GPS, AIS and heading data with smart logic to proactively warn you of certain collision risks with alarms or voice-annunciated alerts that escalate until acknowledged. AIS vessel information (name, bearing and relative position) is continuously provided using AIS information broadcast from other boats.

CORTEX ONBOARD APP

While you're on your boat, the Cortex Onboard app can serve as your primary interface with your Cortex M1 hub, allowing you to monitor boat status, receive alerts, view instrument data and display AIS screens on your compatible smart device.

MAN OVERBOARD

Cortex smartAIS continuously watches for man overboard (MOB) activations, sounding an alarm when it detects one. MOB can be manually activated via the Cortex Onboard app or automatically from an AIS MOB beacon — which launches a track-back mode for quicker retrieval.

NETWORK CONNECTIVITY

Cortex can receive and broadcast information over NMEA 0183 and NMEA 2000® networks, making it compatible with all modern chartplotters and multifunction displays.



AIS™ 800

Part no: 010-02087-00

Increase your situational awareness and confidence on the water with the AIS 800 transceiver. Featuring Class B SOTDMA with 5 watts of transmit power, AIS 800 broadcasts position reports faster with increased speed over regular Class B CSTDMA. Transmit your vessel information to other vessels' AIS receivers in your area so you can be seen. Receive AIS target data from other vessels and plot those on a NMEA 2000® networks chartplotter or multifunction display. An internal VHF antenna splitter allows the VHF and AIS to share a single antenna. A built-in GPS ensures your broadcasted position reports are accurate for other vessels.

- Easy-to-use, reliable communication transmits your vessel information to other AIS receivers in your area while receiving AIS target data
- 5 watts of transmit power with Class B SOTDMA provides faster positioning reporting with increased speed
- Built-in GPS with connector for optional external antenna
- NMEA 2000® connectivity for easy integration with compatible chartplotters and multifunction displays
- Internal VHF antenna splitter allows VHF and AIS to share a single antenna

CLASS B SOTDMA

Class B SOTDMA AIS is self-organizing and offers increased benefits over regular Class B CSTDMA. Increased transmission power guaranteed time slot allocation helps ensure your position report is received by other vessels. Transmission rate is also increased when your vessel is traveling at increased speed.

AIS ON YOUR CHART PLOTTER

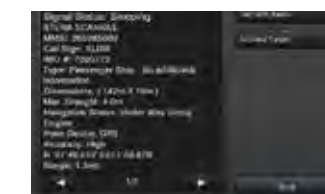
Cortex® M1 and AIS 800 AIS transceivers feature NMEA 2000®/0183 connectivity for easy integration with compatible chartplotters and multifunction displays. See AIS target vessels in range on your chartplotter.

COLLISION WARNINGS



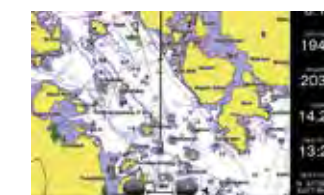
Potential risks are displayed, helping to minimize the risk of collision.

IDENTIFICATION



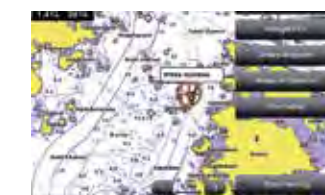
Sends detailed vessel data, allowing easy identification.

CLEAR OVERVIEW



Shows you the surroundings and the vessels around your boat.

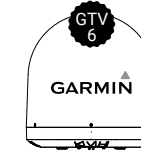
SOCIAL SEAMANSHIP



Spot your friends quickly and enjoy direct ship-to-ship communication.



SATELLITE TV DOME POWERED BY KVH®



With 30% greater reception than other systems, you'll enjoy satellite TV reception where few others can provide it. Our GTV5 and GTV6 satellite TV antenna, powered by KVH and available as part of a Garmin bridge package, offers outstanding high-performance tracking and reception as well as compatibility with DIRECTV U.S., DISH Network, Bell TV, Sky Mexico, Sky Italia, Sky U.K. and circular and linear Ku-band services worldwide. This rugged system is ideal for sportfishing boats or boats venturing offshore or to the islands.



POWERED BY KVH

SATELLITE TV ANTENNA

WITH 30% GREATER RECEPTION THAN OTHER SYSTEMS

SUPPORTS MULTIPLE RECEIVER INSTALLATIONS



ADDITIONAL SERIES FEATURES

- GTV6 Satellite TV Dome Ultra high-efficiency, 24" (60 cm) diameter antenna features proprietary KVH® RingFire™ technology for stronger signals, wider geographic coverage and better reception
- 18" (45 cm) diameter GTV5 Satellite TV Dome features proprietary KVH® RingFire™ technology for stronger signals, wider geographic coverage and better reception
- Supports DIRECTV® U.S., DISH Network®, Bell TV, Sky Mexico, Sky Italia, Sky U.K. and circular and linear Ku-band services worldwide
- Supports multiple receiver installations
- Low elevation angle for better tracking in northern latitudes
- Linear Universal Quad LNB configuration offers optional built-in GPS and autoskew
- The TV-Hub, a streamlined IP-enabled antenna control unit, enables automatic satellite switching
- User-friendly interface provides a wizard for easy installation and setup as well as system information at your fingertips from any smartphone, tablet, smart TV or computer





GNX™ 130 AND 120



GNX™ 130 Part no: 010-01396-00



GNX™ 120 Part no: 010-01395-00

Designed for serious sailors who demand quality, precision and total integration. This high-precision, glass-bonded 10" or 7" large-format instrument creates a beautiful "glass mast" display with superior readability in all conditions, day and night, with no fogging.



HIGH-PRECISION GLASS-BONDED BACKLIT LCD DISPLAY AVOIDS FOGGING



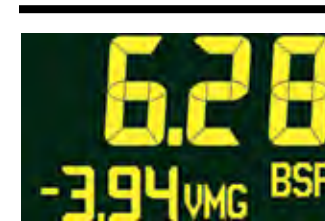
BOLD 2.75" (70 MM) DIGITS ARE THE LARGEST DIGITS IN CLASS



DISPLAYS MORE THAN 50 MARINE AND BOAT PARAMETERS



ALLOWS SEAMLESS SHARING OF SAILING DATA BETWEEN GARMIN DEVICES



Boat speed and VMG



Heading



Depth



True wind angle and true wind speed

GNX™ KEYPAD

Part no: 010-12255-00



Control the GNX™ 120 or GNX™ 130 from a distance with this optional push-button keypad interface that can be mounted near the helm. You can preset 4 buttons to dedicated configurations and adjust the background lighting of all displays with the touch of a button.

GNX™ 120 MAST BRACKETS

Part no: 010-12236-00 (2 units), 010-12236-01 (3 units), 010-12236-02 (4 units)



Flat mount the GNX 120 display for a beautiful glass mast look using our carbon fiber mast brackets. Choose from three mast bracket options – 2, 3 or 4 units.

INSTRUMENTS

GNX™ WIND

Part no: 010-01142-30



A superb addition for all sailboats, GNX Wind features a high-visibility, glass-bonded backlit LCD display with customizable colors. It shows two data fields and a digital wind rose simultaneously to display true and apparent wind data, steering guidance, boat speed and more. It also offers 15 important marine parameters for wind, speed, navigation, and customizable profiles and other configurations.

GMI™ 20

Part no: 010-01140-00



The GMI 20 has a 4" color screen that displays depth, speed, wind, engine information, and more than 100 marine and vessel specific parameters based on your preference. Its glass-bonded finish lens resists fogging and increases contrast. Other features include a dedicated race timer that counts both down and up with an internal beeper.

GNX™ 21 AND 20

GNX 20 Part no: 010-01142-00 / GNX 21 Part no: 010-01142-10



Perfectly designed marine instruments for both sailboats and power vessels, they're easy to read, clearly showing depth, speed, wind, and 50 additional marine and vessel parameters. Preset auto-scroll function automatically cycles between screens.

COMPATIBLE SENSORS AND INSTRUMENTS FOR GMI 20



WIND SYSTEMS



Garmin gWind™ sensors feature a 3-bladed propeller and twin-fin design for accurate true wind speed (TWS) in lighter air and stable true wind angle (TWA).

The GND™ 10 black box interface (part no. 010-01227-00) seamlessly integrates Nexus instruments and sensors with the Garmin family. It converts data between the Nexus Network and NMEA 2000® to provide compatibility between Nexus and Garmin products, including gWind, gWind™ Wireless and gWind™ Race transducers. Simple plug-and-play installation between Nexus and NMEA 2000, with USB connectivity, eliminates the need for user setup and system configuration.

GWIND™ TRANSDUCER

Part no: 010-01227-00



This transducer features twin-fin technology with 3-bladed propeller for accurate TWS in lighter air while the twin-fin design gives a stable TWA. It includes a GND 10 black box.

GWIND WIRELESS 2 TRANSDUCER

Part no: 010-01616-00



An easy-to-install solution that eliminates running wires through masts up to 50'. Accurate wind signals are sent via an ANT® connection directly to a GNX Wind instrument or compatible Garmin GPSMAP® 8400/8600 series or GPSMAP® 7400/7600 series chartplotters. A solar panel mounted on the transducer arm provides power to the internal solar-charged battery that lasts 3 years and is easily replaced.

GWIND RACE TRANSDUCER

Part no: 010-01228-00



Designed for racing sailboats, the gWind Race features a 3.3' (1 meter) straight pole that raises the transducer above the mast to remove turbulence errors. It includes a GND 10 black box.

INSTRUMENT PACKS

GNX™ WIRELESS WIND PACK

Part no.: 010-01616-10

GNX Wind and gWind Wireless 2.



GNX™ WIRELESS SAIL PACK 52

Part no.: 010-01616-40

GNX Wind, GNX 20, gWind Wireless 2 and DST810 (depth, speed and temperature).



GNX™ WIRELESS SAIL PACK 43

Part no.: 010-01616-30

GNX Wind, GNX 20, gWind Wireless 2, GST 43 (speed and temperature), GDT 43 (depth and temperature) and NMEA 2000® adapters.



GNX WIRED SAIL PACK 43

Part no.: 010-01248-60

GNX Wind, GNX 20, gWind, GST 43 (speed and temperature), GDT 43 (depth and temperature) and NMEA 2000 adapters.



GNX WIRED SAIL PACK 52

Part no.: 010-01248-70

GNX Wind, GNX 20, gWind, GND 10 and DST810 (depth, speed and temperature).



GMI WIRED START PACK 52

Part no.: 010-01248-80

GMI 20, gWind, GND 10 and DST810 (depth, speed and temperature).



SAILASSIST

To improve your sailing experience, GPSMAP® series chartplotters include special preloaded sailing features such as laylines, enhanced wind rose, heading and course-over-ground lines, data filtering, north-up and course-up chart combos, heel angle, true wind data fields and tide/current/time slider. For sail racing, there are prerace guidance, synchronized race timer, virtual starting line, time to burn and lay line data fields¹.

LAYLINES



View laylines and other critical data right on your chartplotter screen.

PRERACE GUIDANCE



Displays high-resolution Depth Range Shading for up to 10 depth ranges, so you can view your designated target depth.

WIND GRAPHS



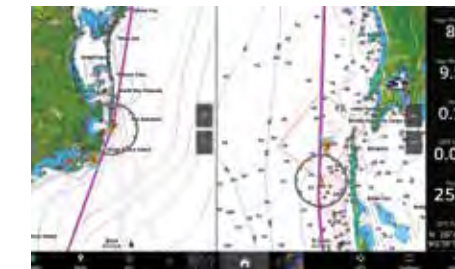
Clear graphs of True Wind Direction, Apparent Wind Angle, True Wind Speed and Apparent Wind Speed.

POLAR TABLE DATA



Support for polar table file handling enables your Garmin chartplotter to calculate the optimal wind angle for your sailboat to achieve its highest speed

NORTH-UP / COURSE-UP COMBO



Set up a dual navigation chart combo showing north-up and course-up orientations. This simultaneous viewing enhances awareness for course direction and a broader positional location.



FISHFINDERS



STRIKER™ VIVID SERIES



010-02550-00 4cv + transducer



010-02551-00 5cv + transducer



010-02552-00 7cv + transducer
010-02553-00 7sv + transducer



010-02554-01 9sv + transducer

See fish and structure in colorful detail with the easy-to-use STRIKER™ Vivid Series fishfinders. Available in screen sizes ranging from 4" to 9", these devices feature high-contrast color palettes with support for traditional and scanning sonar capabilities¹ to make it easier to see what's beneath the surface. Built-in high sensitivity GPS lets you mark your favorite fishing spots and easily navigate back to them.

FEATURED — STRIKER PLUS 7SV



BRIGHT, SUNLIGHT-READABLE SCREEN WITH VIVID SCANNING SONAR COLOR PALETTES

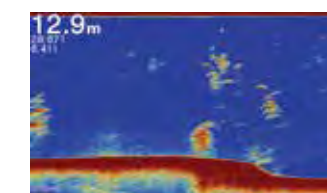
AVAILABLE WITH TRANSDUCER FOR CHIRP TRADITIONAL, CLEARVÜ AND SIDEVÜ SCANNING SONAR

BUILT-IN GPS LETS YOU MARK WAYPOINTS, CREATE ROUTES AND VIEW BOAT'S SPEED

INCLUDES BUILT-IN QUICKDRAW CONTOURS MAPPING



CHIRP TRADITIONAL



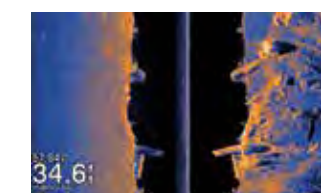
Crisp, clear CHIRP traditional sonar.

CLEARVÜ SCANNING SONAR



See images of what's under your boat.

SIDEVÜ SCANNING SONAR



Get incredibly clear images of what's off to either side of your boat.

QUICKDRAW CONTOURS MAPPING



Create and store maps as you fish with 1' contours for up to 2 million acres.

THE LINEUP

	STRIKER 4	STRIKER Plus 4	STRIKER Vivid 4cv	STRIKER Vivid 5cv	STRIKER Vivid 7cv	STRIKER Vivid 7sv	STRIKER Vivid 9sv
	010-01550-00	010-01870-00	010-02550-00	010-02551-00	010-02552-00	010-02553-00	010-02554-01
Built-in GPS	•	•	•	•	•	•	•
Quickdraw Contours		•	•	•	•	•	•
Garmin CHIRP Traditional ¹	•	•	•	•	•	•	•
CHIRP ClearVü ¹			•	•	•	•	•
CHIRP SideVü ¹						•	•
Built-in Wi-Fi [®]					•	•	•
ActiveCaptain [®] App Compatible ¹					•	•	•
Transducer and Mounts Included	•	•	•	•	•	•	•

¹Additional equipment (sold separately) and device pairing required • ²Available on STRIKER Cast GPS model • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

STRIKER™ CAST



Why guess where to find fish? See exactly where they're hiding with the durable STRIKER™ Cast series castable sonars. Just download the STRIKER Cast app, pair your compatible mobile device with the sonar and go fishing in minutes. Cast from shore, dock or watercraft, and reel back in to locate and display fish, wirelessly streaming sonar up to 200' to your smartphone or tablet.

» STREAMS LIVE SONAR

 PAIR WITH COMPATIBLE APPLE® OR ANDROID™ APPS¹

 UP TO 200' SONAR RANGE

 10+ HOURS BATTERY LIFE²
 «

SCAN FISH BY PHONE



Wirelessly stream sonar to view fish and structure up to 200' in any direction via the STRIKER™ Cast app on your compatible smartphone or tablet.

SELECTABLE MODES



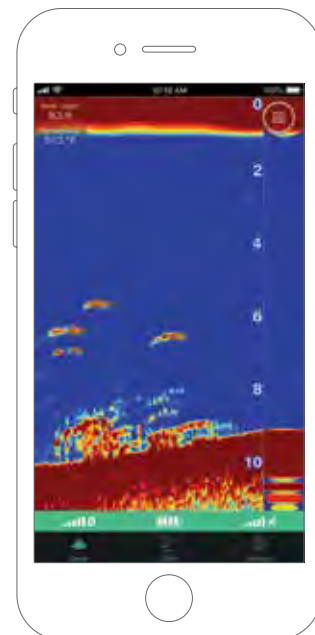
Choose your views from easy-to-interpret traditional 2-D sonar and ice fishing flasher modes, with setting adjustments for gain, range and more.

QUICKDRAW CONTOURS

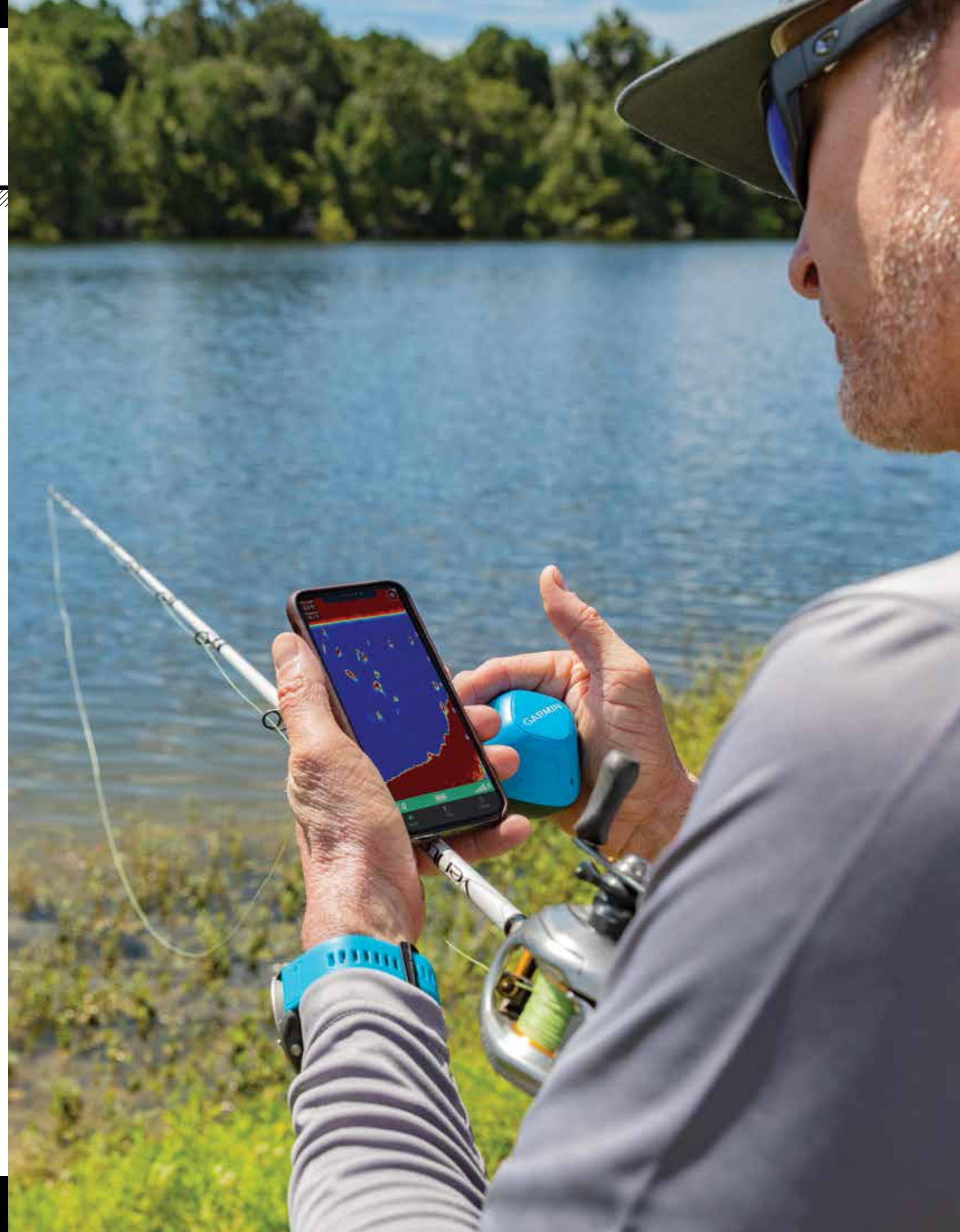


GPS model offers waypoint marking and Quickdraw Contours, letting you create and save your own fishing maps with 1' contours.

FISH ICONS



Turn on fish icons to view graphic images of fish targets and their depth readings so you'll know exactly where to drop your line.



¹When paired with a compatible smartphone; see Garmin.com/ble • ²Battery life may vary depending on usage • Apple is a trademark of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google LLC.

CAMERAS AND CAMERA SYSTEMS





MARINE CAMERAS



Garmin marine cameras add security and heightened awareness to your vessel. They provide an extra set of eyes to monitor areas above or below decks – even in low light – making them perfect for engine rooms. The small size and rugged weatherproof cases allow you to install them nearly anywhere on your boat.

GC™ 200 MARINE IP CAMERA

- » MONITOR AREAS ABOVE AND BELOW DECK IN REAL TIME
- HD-RESOLUTION IMAGES EVEN IN LOW LIGHT
- STREAM VIDEO FROM UP TO 4 CAMERAS AT A TIME ON A SINGLE COMPATIBLE CHARTPLOTTER
- REVERSE-IMAGE SETTING HELPS WHEN BACKING OUT OF TIGHT LOCATIONS SUCH AS CROWDED MARINAS
- « SHARE VIDEO ACROSS MULTIPLE COMPATIBLE CHARTPLOTTERS

GC™ 100 WIRELESS MARINE CAMERA

Compact wireless camera streams high-quality video to your compatible chartplotter and any other chartplotter on the same network. Effective in total darkness, it's perfect for the engine room. Easy to install and hardwired for power, the camera is ready to use with one-button setup.

GC™ 14 MARINE CAMERA

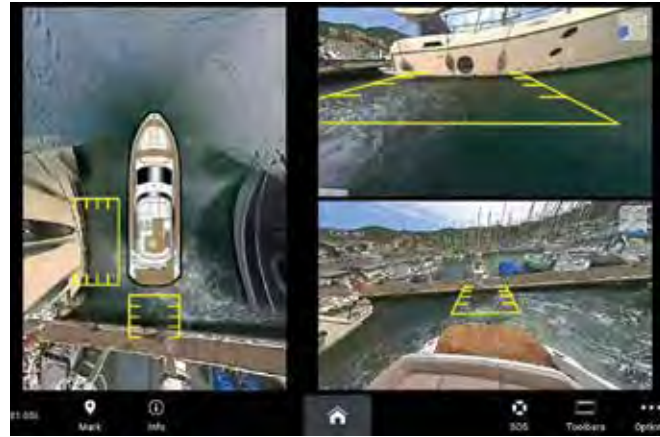
Small and discreet, this camera delivers excellent quality images. Use it in multiple areas above or below decks, and view on one chartplotter or across multiple networked compatible chartplotters. It can help you back out of a crowded marina or keep an eye on your dark engine room.

THE LINEUP

	GC 14 Marine Camera 010-02667-00	GC 200 Marine IP Camera 010-02164-00	GC 100 Marine Camera 010-01865-30
Boat Monitoring Camera	•	•	•
Low-light Vision	•	•	•
Versatile Mounting Options	•	•	•
Rugged Housing	•	•	•
Water Rating	IPX7	IPX7	IPX7
Video Resolution	976(H) x 582(V)	Up to 1920 x 1080P ¹	720p
One-button Start-up		•	•
Pair Multiple Cameras		•	•
Connection to Chartplotter	Analog	IP	Wi-Fi®
Hardwired Power	12V	12V and POE	12V

¹All current Garmin Chartplotters can only support up to 1280x720P • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

SURROUND VIEW SYSTEM



In tight maneuvering situations, the Garmin Surround View Camera System is a video guidance breakthrough. It's a fully integrated system of cameras that offers live bird's-eye view video monitoring for full 360-degree visibility around the boat from the helm. The video feed from the discreet, OEM factory-installed six-camera array seamlessly integrates with compatible Garmin chartplotters or MFD helm displays. The cameras also support situational awareness augmented reality features such as distance markers (similar to automotive backup camera viewing) and a visual bumper that helps the captain see when docks or other objects breach preset barrier limits around the boat. Through-hull installation at the factory offers secure fit and calibration for reliable, low-maintenance operation.

- 

**LIVE BIRD'S-EYE
VIEW VIDEO**
- FULL 360-DEGREE
WRAPAROUND VIEW**
- 6-CAMERA
ARRAY ON BOARD**
- SLEEK IN-HULL
OEM INSTALLATION**



SEAMLESS SITUATIONAL AWARENESS



The 360-degree video feed integrates with compatible Garmin chartplotters or MFD helm displays. Each camera view can also be monitored individually.

VISUAL BUMPER



A visual bumper feature helps the captain see when docks, piers or other objects breach preset barrier limits around the boat.

DISTANCE MARKERS



In tight maneuvering situations, distance markers around the boat provide visual cues to help maintain safe clearance and separation.

ENGINEERED FOR LOW MAINTENANCE



Thru-hull OEM installation offers secure fit and calibration of the Surround View Camera System. For easy maintenance, any of the cameras can be replaced externally.



WEARABLES AND HANDHELDS



QUATIX® 7 SERIES



Plot your paradise on the water and beyond with quatix 7, the multisport GPS marine smartwatch that has all the features you need on your boat and the ones you want off it. Your quatix 7 provides comprehensive connectivity with compatible Garmin chartplotters and other devices¹ to offer autopilot control, Fusion-Link™ entertainment system control, sail racing assistance, integrated tide data on the watch face and much more. The watch comes in Classic, Solar and Sapphire editions — all of which let you enjoy full control of your boat from your wrist. All quatix 7 series watches feature an intuitive touchscreen interface, and the Sapphire editions add an ultrabright, high-resolution AMOLED color display.

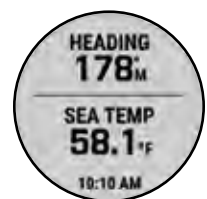
- » COMPREHENSIVE BOAT CONNECTIVITY
- COMPATIBLE WITH GARMIN DEVICES¹
- 24/7 HEALTH MONITORING AND SMART NOTIFICATIONS²
- USE TRADITIONAL BUTTON CONTROLS OR TOUCHSCREEN INTERFACE
- BUILT-IN ACTIVITY PROFILES FOR WATER AND LAND SPORTS «

AUTOPILOT CONTROL²



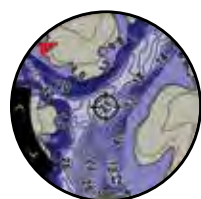
Access the autopilot app for control from your wrist: change heading, engage pattern steering, follow a GPS route and more.

DATA STREAMING



Wirelessly connect with compatible devices to stream data — water depth, engine RPM, wind, custom inputs and more — directly onto your wrist.

MARINE CARTOGRAPHY



Never lose sight of where you are. Your quatix watch can support optional BlueChart® g3 coastal charts and LakeVü™ inland maps.

SPORTS AND ADVENTURES



Built-in activity profiles let you track your pursuits on water and land, including golf, hiking, paddleboarding, kayaking and more.

MEDIA CONTROL



Play your favorite tunes and control your onboard entertainment system with the built-in Fusion-Link™ Lite app.

THE LINEUP

	quatix 7 Standard 010-02540-60	quatix 7 Sapphire 010-02582-60	quatix 7X Solar 010-02541-60
Bezel and Band	Stainless steel with blue silicone band	Titanium with titanium band	Titanium with titanium band
Lens Material	Corning® Gorilla® Glass DX	Sapphire crystal	Power Glass™ Solar Charging Lens
Display Type	MIP	AMOLED	MIP
Connectivity	BLUETOOTH®, ANT+®, Wi-Fi®	BLUETOOTH®, ANT+®, Wi-Fi®	BLUETOOTH®, ANT+®, Wi-Fi®
Battery Life	Up to 18 days in smartwatch mode, up to 57 hours in GPS mode	Up to 16 days in smartwatch mode, up to 42 hours in GPS mode	Up to 28 days in smartwatch mode, with up to an additional 9 days when solar charging; up to 89 hours in GPS mode, with up to an additional 33 hours when solar charging ³
Water Rating	10 ATM	10 ATM	10 ATM

MARQ® CAPTAIN



Whether you own the cup or are inspired by those who do, MARQ Captain shows your passion for life at sea. It is the modern tool watch with advanced nautical and smart features that one simply won't find in a traditional timepiece. Featuring a dual-color nautical design, It's built from grade-5 titanium to be lighter and stronger, with a stunning new 1.2" AMOLED touchscreen display and domed sapphire lens. Set your preferred wind speed and see a forecast on your watch face, so you know what day you should take to the high seas. This is the watch for those who live life at the helm.

- » ENDURING MATERIALS
- AUTOPILOT CONTROL
- PAIRS WITH SELECT GARMIN CHARTPLOTTERS
- REGATTA TIMER
- TACK ASSIST «



¹Compatible marine products: GPMAP® 7x2/7x3/9x2/9x3/12x2/12x3 Plus, GPMAP® 10x2/12x2, GPMAP® 74/7600, GPMAP® 84/8600, GHC™ 20, GNX™ Wind, GNT™ 10

²When paired with a compatible smartphone; see Garmin.com/ble ³Assumes continuous use for entire period in 50,000 lux conditions

HANDHELDS

HANDHELDS

GPSMAP® 73 AND GPSMAP® 79 SERIES

Boaters and watersport enthusiasts everywhere swear by GPSMAP 73, 79s and 79sc handhelds. They float! The 79 series features bright 2.6" LCD color displays with built-in worldwide basemaps and a special MOB (man overboard) button. 79sc model also comes with preloaded U.S. coastal charts. The GPS 73 includes SailAssist features, including virtual starting line, heading line, countdown timers and tack assist.



GPSMAP 73 GPSMAP 79S GPSMAP 79SC

GPSMAP® 276CX

All-terrain navigator with advanced GPS and GLONASS reception tracks your position in challenging environments. It has a large, sunlight-readable 5" screen plus built-in barometric altimeter and 3-axis compass. The GPSMAP 276CX also comes preloaded with a worldwide basemap and free 1-year BirdsEye Satellite Imagery subscription. Advanced mapping, connectivity and flexible mounting options are available; and it's water-rated to IPX7.



GPSMAP® 86 SERIES HANDHELDS



GPSMAP 86s GPSMAP 86sc GPSMAP 86i GPSMAP 86sci



Cast off confidently with the GPSMAP 86 series marine handhelds. These premium, floating navigators have a sunlight-readable 3" color display plus preloaded BlueChart® g3 coastal charts. Wireless connectivity makes them a virtual extension of your onboard marine system, allowing you to stream boat data from compatible chartplotters and instruments. These units can also function as a remote control for your Garmin autopilot and Fusion® marine audio products. The GPSMAP 86i and GPSMAP 86sci versions feature inReach® satellite technology¹ to provide 100% global coverage for two-way messaging, interactive SOS and off-grid peace of mind.

THE LINEUP

	GPSMAP 73	GPSMAP 79s	GPSMAP 79sc	GPSMAP 86s	GPSMAP 86sc	GPSMAP 86i	GPSMAP 86sci	GPSMAP 276CX
	010-01504-00	010-2635-00	010-2635-02	010-02236-00	010-00864-02	010-02236-00	010-02235-00	010-01607-00
Easy-to-use Handheld	•	•	•	•	•	•	•	•
Floats	•	•	•	•	•	•	•	•
SailAssist	•							
Back-lit Buttons	•	•	•	•	•	•	•	•
Color Screen		•	•	•	•	•	•	•
Worldwide Basemap		•	Built-in BlueChart g2	•	Built-in BlueChart g3	•	Built-in BlueChart g3	•
Ability to Add Maps		•	•	•	•	•	•	•
Waypoints/Favs/Locations	1,000	2,000	2,000	10,000	10,000	10,000	10,000	10,000
Routes	50	200	200					250
inReach® Satellite Technology ¹						•	•	
Memory/History		1.7 GB	1.7 GB	16 GB	16 GB	16 GB	16 GB	8 GB
Battery Life	18 hours	20 hours	20 hours	40 hours	40 hours	35 hours	35 hours	16 hours
Compass		Tilt-compensated 3-axis	Tilt-compensated 3-axis	Tilt-compensated 3-axis	Tilt-compensated 3-axis	Tilt-compensated 3-axis	Tilt-compensated 3-axis	Tilt-compensated 3-axis
Barometric Altimeter		•	•	•	•	•	•	•

INREACH® MESSENGER

Providing global two-way messaging and interactive SOS, the inReach Messenger satellite communicator keeps you connected with friends and family even when you're out of cell coverage¹. Texting and group messaging is easy when using the Garmin Messenger™ app. Or send/receive messages by using compatible Garmin handhelds, wearables or other devices. Seamless switching between Wi-Fi® wireless networking, cellular and satellite networks gives you the best connectivity and cost-efficiency for all your communications.



INREACH® MINI 2 MARINE BUNDLE

The inReach Mini 2 Marine bundle puts the rugged, compact inReach Mini 2 satellite communicator on your boat for interactive SOS, two-way messaging and basic navigation via the global Iridium® network¹. The screw-down mount, 12-volt power cable and wireless connectivity to compatible chartplotters let you add peace of mind to your adventures without taking up space on your helm. Off its mount, the internal, rechargeable lithium battery provides up to 14 days of battery life in 10-minute tracking mode.

¹Active satellite subscription required. Some jurisdictions regulate or prohibit the use of satellite communications devices. It is your responsibility to know and follow all applicable laws in the jurisdictions where the device is intended to be used. Other Garmin maps not compatible with this device.

¹Active satellite subscription required. Some jurisdictions regulate or prohibit the use of satellite communications devices. It is the responsibility of the user to know and follow all applicable laws in the jurisdictions where the device is intended to be used. Other Garmin maps not compatible with this device.

ACCESSORIES



ANTENNAS AND SENSORS

GXM™ 54 SIRIUSXM® WEATHER & RADIO ANTENNA

Part no: 010-02277-00



Gain added awareness and confidence on the water with current weather conditions and forecasts¹ delivered straight to your Garmin chartplotter. Enjoy high-quality entertainment with more than 150 channels of SiriusXM satellite radio¹. Fish Mapping™ for suggested potential hot spots based on concentrations of popular species.

GTV5 AND GTV6 SATELLITE TV DOMES POWERED BY KVH®

Part no: GTV5 | 010-02123-00 and GTV6 | 010-02124-00



Enjoy satellite TV reception where few others can provide it. Our 18" GTV5 and ultra high-efficiency, 24" GTV6 satellite TV antennas are powered by KVH and available as part of a Garmin bridge package. They offer outstanding high-performance tracking and reception as well as compatibility with DIRECTV U.S., DISH Network, Bell TV, Sky Mexico, Sky Italia, Sky U.K., and circular and linear Ku-band services worldwide.

9-AXIS HEADING SENSOR

Part no: 010-11417-20



Our premium solution for exceptional heading accuracy allows for MARPA tracking and improves the radar overlay experience.

With heading output at 10 Hz and accuracy of plus or minus 2 degrees, it ensures your chart orientation and boat heading line match up with reality, even at lower speeds. Your heading information will remain accurate, even in rough sea conditions where your bow is pitching and rolling or – in sailboat applications – when heeled over.

The 9-axis MEMS technology allows installation in nearly any orientation located away from magnetic interference. It's built to withstand bilge environments.

MSC 10 MARINE SATELLITE COMPASS

Part no: 010-02407-00



With multi-band GNSS and a fully integrated attitude and heading reference system, this satellite compass ensures a smooth and accurate GPS-derived heading and position on the water. It will also deliver precise pitch, roll and heave information – even in rough seas – to a compatible Garmin chartplotter (sold separately) via the NMEA 2000® network.

GNA 10 JOG LEVER ADAPTER

Part no: 010-13007-00



Explore coastal waters with the GPS 24xd position receiver and antenna. Get precise location to within 1 meter with dual-frequency band GPS and heading accuracy even at slow speeds with magnetic heading sensors. System-compatible antenna versions are available for both NMEA 2000 and NMEA 0183.

STEADYCAST™ HEADING SENSOR

Part no: 010-11417-10



The SteadyCast heading sensor is a simple, easy-to-install solution that provides fast calibration and premium heading accuracy. It aligns your boat bow to its actual orientation so you know where you are casting according to your chartplotter screen. It's accurate even at low speed and effective in rough water.

GPS 24XD RECEIVER

Part no: 010-01010-00



Explore coastal waters with the GPS 24xd position receiver and antenna. Get precise location to within 1 meter with dual-frequency band GPS and heading accuracy even at slow speeds with magnetic heading sensors. System-compatible antenna versions are available for both NMEA 2000® and NMEA 0183.

ACCESSORIES

GHC™ 50 CONTROL UNIT

Part no: 010-02731-00



Control your autopilot with up to three GHC 50 autopilot helm controller units. Compatible with all Garmin autopilots, for both motor- and sailboats.

GARMIN USB CARD READER

Part no: 010-02251-00



Save space on your helm with the compact, water-resistant SD™ card reader. It holds two full-size SD cards for quick access to charts, software updates and ActiveCaptain® data. Featuring a 2"x 2" footprint, flush mounting and USB connection to the back of your chartplotter, this card reader easily integrates into a crowded dash or elsewhere at the helm.

REACTOR™ AUTOPILOT REMOTE

Part no: 010-12833-10



The ultimate in onboard control and convenience all in the palm of your hand. Bright color display and new gesture controls let you course-correct with ease.

GRF 10 RUDDER SENSOR

Part no: 010-11829-00



Pair this GRF 10 rudder feedback sensor with your autopilot to provide rudder position feedback to detect and avoid rudder stops.

GRID™ 20 REMOTE INPUT DEVICE

Part no: 010-02011-00 (Portrait), 010-02011-01 (Landscape)



The easy-to-use remote input device provides access and control of your entire Garmin marine system. It features a 360-degree joystick with a rotary knob and push-to-select button for easy chartplotter menu/setting navigation and fine control even in the worst conditions. You can designate 4 favorite keys to restore your system to a previously saved configuration.



SPECIFICATIONS



MFD Chartplotters

GPSMAP 8624/8424



GPSMAP 8622/8422



GPSMAP 8617/8417



	GPSMAP 8624/8424	GPSMAP 8622/8422	GPSMAP 8617/8417
Display Size (diagonal)	24"	22"	17"
Display Type and Resolution (pixels)	WUXGA - 1920 x 1200	FHD - 1920 x 1080	WUXGA - 1920 x 1200
Touch- or Keyed Panel	Multitouch	Multitouch	Multitouch
GPS Receiver	10 Hz GPS/GLONASS, external	10 Hz GPS/GLONASS, external	10 Hz GPS/GLONASS, external
Standard GPS Antenna	External	External	External
Number of Waypoints	5,000	5,000	5,000
Number of Routes	100	100	100
J1939 Support	Yes	Yes	Yes
Garmin SmartMode™	Yes	Yes	Yes
Digital Switching support	Yes	Yes	Yes
NMEA 2000® Compatible	Yes	Yes	Yes
NMEA 0183 Compatible	Yes	Yes	Yes
Garmin Marine Network Compatible	Yes	Yes	Yes
Preloaded Map	Garmin Navionics+™/Worldwide Basemap	Garmin Navionics+™/Worldwide Basemap	Garmin Navionics+™/Worldwide Basemap
Garmin Navionics Vision+™ Compatible	Yes	Yes	Yes
Auto Guidance+	Yes	Yes	Yes
ActiveCaptain® Support	Yes	Yes	Yes
Sailing Features	Yes	Yes	Yes
Wi-Fi® and ANT® Wireless Technology	Yes, built-in	Yes, built-in	Yes, built-in
GRID™ 20 (Garmin Remote Input Device) Compatible	Yes	Yes	Yes
FLIR® and Axis® IP Camera Support	Yes	Yes	Yes
Fusion-Link™ Support	Yes	Yes	Yes
Video Input	1 BNC composite 1 HDMI (HDCP compliant)	1 BNC composite 1 HDMI (HDCP compliant)	1 BNC composite 1 HDMI (HDCP compliant)
Video Output	1 HDMI	1 HDMI	1 HDMI
AIS and DSC Support	Yes	Yes	Yes
Sonar Module Support	Yes	Yes	Yes
Supported Frequency (sonar)	Dependent on optional sonar module	Dependent on optional sonar module	Dependent on optional sonar module
Transmit Power	Dependent on optional sonar module	Dependent on optional sonar module	Dependent on optional sonar module
Live Sonar Support	Yes	Yes	Yes
Data Card Slots	2 SD™ cards (requires optional card reader)	2 SD™ cards (requires optional card reader)	2 SD™ cards (requires optional card reader)
Water Rating	IPX7	IPX7	IPX7
Mounting Options	Flat or Flush	Flat or Flush	Flat or Flush
Power Supply	10-35 V	10-35 V	10-35 V
Typical Current Draw at 12 Vdc	6.1 A	3.9 A	2.8 A
Connections	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 4 in and 2 out Marine network: 4 ports USB: 1 port Video in: 1 BNC composite and 1 HDMI (HDCP compliant), Video out: 1 HDMI, J1939: 1 port	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 4 in and 2 out Marine network: 4 ports USB: 1 port Video in: 1 BNC composite and 1 HDMI (HDCP compliant), Video out: 1 HDMI, J1939: 1 port	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 4 in and 2 out Marine network: 4 ports USB: 1 port Video in: 1 BNC composite and 1 HDMI (HDCP compliant), Video out: 1 HDMI, J1939: 1 port

Chartplotters and Combos

GPSMAP 8610



GPSMAP 8610xsv



GPSMAP 8612



GPSMAP 8612xsv



GPSMAP 8616



GPSMAP 8616xsv

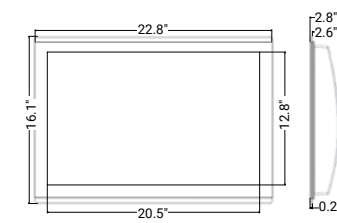


	GPSMAP 8610	GPSMAP 8610xsv	GPSMAP 8612	GPSMAP 8612xsv	GPSMAP 8616	GPSMAP 8616xsv
Display Size (diagonal)	10"	10"	12"	12"	16"	16"
Display Type and Resolution (pixels)	WUXGA - 1920 x 1200	WUXGA - 1920 x 1200	FHD - 1920 x 1080	FHD - 1920 x 1080	FHD - 1920 x 1080	FHD - 1920 x 1080
Touch- or Keyed Panel	Multitouch	Multitouch	Multitouch	Multitouch	Multitouch	Multitouch
GPS Receiver	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo	10 Hz GPS/GLONASS/Galileo
Standard GPS Antenna	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)
Number of Waypoints	5,000	5,000	5,000	5,000	5,000	5,000
Number of Routes	100	100	100	100	100	100
J1939 Support	Yes	Yes	Yes	Yes	Yes	Yes
NMEA 2000® Compatible	Yes	Yes	Yes	Yes	Yes	Yes
NMEA 0183 Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Garmin Marine Network Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Preloaded Map	Garmin Navionics+™	Garmin Navionics+	Garmin Navionics+	Garmin Navionics+	Garmin Navionics+	Garmin Navionics+
Garmin Navionics Vision+™ Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Auto Guidance+	Yes	Yes	Yes	Yes	Yes	Yes
ActiveCaptain® Support	Yes	Yes	Yes	Yes	Yes	Yes
SailAssist	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi® and ANT® Wireless Technology	Yes	Yes	Yes	Yes	Yes	Yes
GRID™ 20 (Garmin Remote Input Device) Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Wireless Remote Compatible	Yes	Yes	Yes	Yes	Yes	Yes
FLIR® Camera Support	Yes	Yes	Yes	Yes	Yes	Yes
Fusion-Link™ Support	Yes	Yes	Yes	Yes	Yes	Yes
Video Input	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI
Video Output	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI	1 HDMI
AIS and DSC Support	Yes	Yes	Yes	Yes	Yes	Yes
Sonar Module Support	Yes	Yes	Yes	Yes	Yes	Yes
Supported Frequency (sonar)¹		40 kHz-250 kHz CHIRP, 260/455/800/1200 kHz CHIRP scanning (ClearVü and SideVü)		40 kHz-250 kHz CHIRP, 260/455/800/1200 kHz CHIRP scanning (ClearVü and SideVü)		40 kHz-250 kHz CHIRP, 260/455/800/1200 kHz CHIRP scanning (ClearVü and SideVü)
Transmit Power		1 kW traditional, 1 kW CHIRP		1 kW traditional, 1 kW CHIRP		1 kW traditional, 1 kW CHIRP
Live Sonar Support	Yes	Yes	Yes	Yes	Yes	Yes
Preloaded Quickdraw Contours Software	Yes	Yes	Yes	Yes	Yes	Yes
Data Card Slots	2 micro SD™	2 micro SD™	2 micro SD™	2 micro SD™	2 micro SD™	2 micro SD™
Water Rating	IPX7	IPX7	IPX7	IPX7	IPX7	IPX7
Mounting Options	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat	Bail, Flush or Flat
Power Supply	10-32 V	10-32 V	10-32 V	10-32 V	10-32 V	10-32 V
Typical Supply at 12 Vdc	2.0 A	2.7 A	2.4 A	3.1 A	3.5 A	4.2 A
Connections	Built-in wireless connectivity NMEA 2000: 1 port J1939 NMEA 0183: 1 port Marine Network: 2 ports Video in: 1 BNC, 1 HDMI Video out: 1 HDMI USB	Built-in wireless connectivity NMEA 2000: 1 port J1939 NMEA 0183: 1 port Marine Network: 2 ports Video in: 1 BNC, 1 HDMI Video out: 1 HDMI USB	Built-in wireless connectivity NMEA 2000: 1 port J1939 NMEA 0183: 1 port Marine Network: 2 ports Video in: 1 BNC, 1 HDMI Video out: 1 HDMI USB	Built-in wireless connectivity NMEA 2000: 1 port J1939 NMEA 0183: 1 port Marine Network: 2 ports Video in: 1 BNC, 1 HDMI Video out: 1 HDMI USB	Built-in wireless connectivity NMEA 2000: 1 port J1939 NMEA 0183: 1 port Marine Network: 2 ports Video in: 1 BNC, 1 HDMI Video out: 1 HDMI USB	Built-in wireless connectivity NMEA 2000: 1 port J1939 NMEA 0183: 1 port Marine Network: 2 ports Video in: 1 BNC, 1 HDMI Video out: 1 HDMI USB

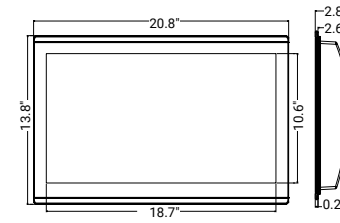
Combos

	GPSMAP 1242xsv/1242 and GPSMAP 1042xsv/1042	GPSMAP 1243xsv/1243 and GPSMAP 943xsv/943 and GPSMAP 743xsv/743	ECHOMAP Ultra 106xs/106 and 126xs/126	ECHOMAP UHD2 52cv/53cv/54cv and ECHOMAP UHD2 72cv/73cv/74cv	ECHOMAP UHD2 62sv/63sv/64sv/65sv and ECHOMAP UHD2 72sv/73sv/74sv/75sv and ECHOMAP UHD2 92sv/93sv/94sv/95sv
Display Size (diagonal)	12" (1242xsv/1242) 10" (1042xsv/1042)	12" (1243xsv/1243) 9" (943xsv/943) 7" (743xsv/743)	10" (106xs/106) 12" (126xs/126)	5" and 7"	6", 7", 9"
Display Type and Resolution (pixels)	WXGA - 1280 x 800 (1242xsv/1242) WSVGA - 1024 x 600 (1042xsv/1042)	WXGA - 1280 x 800 (1243xsv/1243) WXGA - 1280 x 720 (943xsv/943) WSVGA - 1014 x 600 (743xsv/743)	1280 x 800	WVGA - 800 x 480	9" - 1024 x 600 6" / 7" - 800 x 480
Touch or Keyed Panel	Keyed	Multitouch	Keyed Assist Multitouch	Keyed	Touch
GPS Receiver	10 Hz GPS/GLONASS, internal	10 Hz GPS/GLONASS, internal	10 Hz	5 Hz GPS/GLONASS, internal	10 KHz, Dual Band, Internal
Standard GPS Antenna	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)	Internal (input for external)
Number of Waypoints	5,000	5,000	5,000	5,000	5,000
Number of Routes	100	100	100	100	100
NMEA 2000* Compatible	Yes	Yes	Yes	No	Yes
NMEA 0183 Compatible	Yes	Yes	Yes	No	No
Garmin Marine Network Compatible	Yes	Yes	Yes, with other 7" and 9" ECHOMAP UHD, ECHOMAP Plus and ECHOMAP Ultra models only	Yes	Yes
OneHelm	No	Yes	No	No	No
Preloaded Map	Garmin Navionics+™	Garmin Navionics+	Garmin Navionics+	Garmin Navionics+	Garmin Navionics+
Garmin Navionics+™/Vision+™ Compatible	Yes	Yes	Yes	Yes	Yes
Auto Guidance+	Yes	Yes	Yes	Downloadable via Active Captain	Downloadable via Active Captain
ActiveCaptain™ Support	Yes	Yes	Yes	Yes	Yes
SailAssist	Yes	Yes	Yes	Yes	Yes
Wi-Fi* Wireless Connectivity	Yes	Yes	Yes	Yes	Yes
ANT* Wireless Connectivity	Yes	Yes	Yes	No	No
GRID™ 20 (Garmin Remote Input Device) Compatible	Yes	Yes	No	No	No
Wireless Remote Compatible	Yes	Yes	No	No	No
FLIR® Camera Support	Yes	Yes	No	No	No
Fusion-Link™ Support	Yes	Yes	Yes	No	No
Video Input/Output	1 BNC	1 BNC Video Output: 1 HDMI 1243xsv/1243	No	No	No
AIS and DSC Support	Yes	Yes	Yes	No	No
Traditional HD ID 77/200	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes
Traditional HD ID 50/200	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes
Traditional CHIRP	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes
CHIRP ClearVü	Yes (xsv)	Yes (xsv)	Yes	Yes	Yes
CHIRP SideVü	Yes (xsv)	Yes (xsv)	Yes	No	Yes
Dual-channel CHIRP	No	No	No	No	No
Ultra High-Definition Scanning Sonar	No	Yes	Yes	Yes	Yes
Optional Sonar Support	Yes	Yes	Yes	No	No
Internal Sonar Sharing	Yes (xsv)	Yes (xsv)	Yes, with other 7" and 9" ECHOMAP Plus models and ECHOMAP Ultra models only	Yes, wireless with another UHD2 chartplotter	Yes, wireless with another UHD2 chartplotter or via the Garmin Marine Network
Transmit Power	1 kW traditional, 1 kW CHIRP (xsv)	1 kW traditional, 1 kW CHIRP (xsv)	600 W	Up to 500 W (RMS)	Up to 500 W (RMS)
Live Sonar Support	Yes	Yes	Yes	No	Yes
Preloaded Quickdraw Contours Software	Yes	Yes	Yes	Yes	Yes
Data Card Slots	2 SD™ cards	2 microSD™ cards	2 microSD™ cards	1 microSD™ card	1 microSD™ card
Water Rating	IPX7	IPX7	IPX7	IPX7	IPX7
Mounting Options	Ball or Flush	Ball, Flush or Flat	Ball or Flush	Ball or Flush	Ball or Flush
Power Supply	10-32 V	10-32 V	10-20 V	10-20 V	10-20 V
Typical Current Draw at 12 Vdc	2.5 A	2.2 A (1243xsv/1243) 1.8 A (943xsv/943) 1.5 A (743xsv/743)	2.2 A (106xs/106) 2.5 A (126xs/126)	1.95 A	1.52 A
Connections	Built-in wireless connectivity NMEA 2000: 1 port NMEA 0183: 1 port Marine Network: 2 ports Video in: 1 BNC	Built-in wireless connectivity USB: 1 port NMEA 2000: 1 port NMEA 0183: 1 in and 1 out Marine Network: 2 ports Video in: 1 BNC J1939 (1243xsv/1243)	NMEA 2000: 1 port NMEA 0183: 1 in and 1 out Marine Network: 2 ports	N/A	NMEA 2000: 1 port NMEA 0183: 1 in and 1 out Marine Network: 1 port

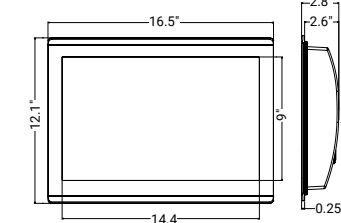
GPSMAP 8624



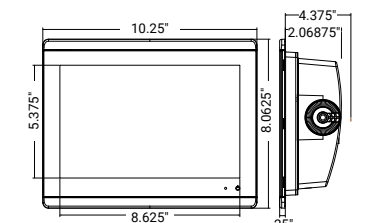
GPSMAP 8622



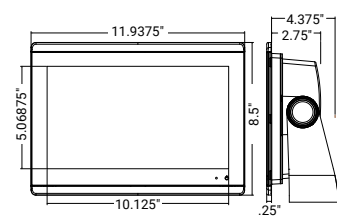
GPSMAP 8617



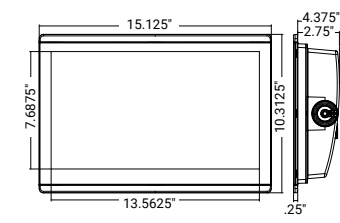
GPSMAP 8610/8610XSV



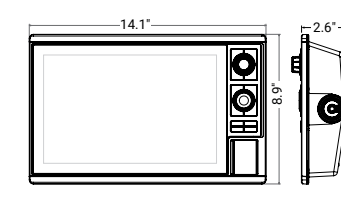
GPSMAP 8612/8612XSV



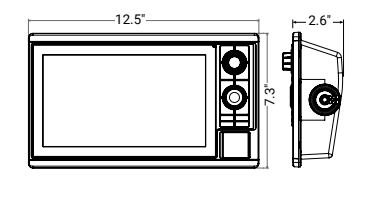
GPSMAP 8616/8616XSV



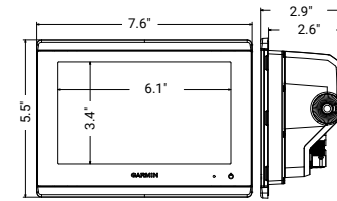
GPSMAP 1242 SERIES



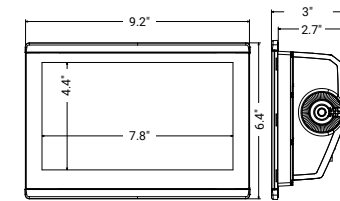
GPSMAP 1042 SERIES



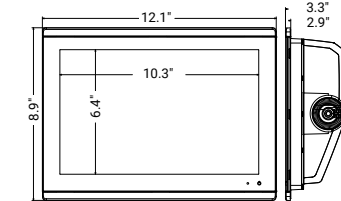
GPSMAP 743/743XSV



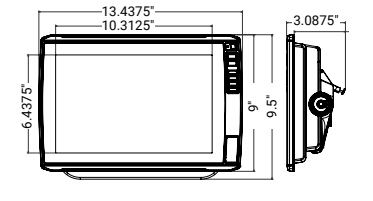
GPSMAP 943/943XSV



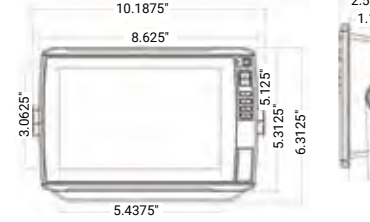
GPSMAP 1243/1243XSV



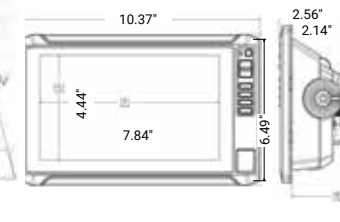
ECHOMAP ULTRA 126/122SV



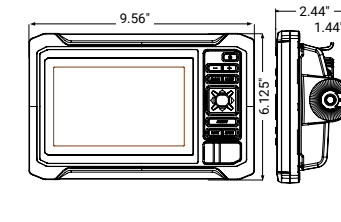
ECHOMAP ULTRA 106/102SV



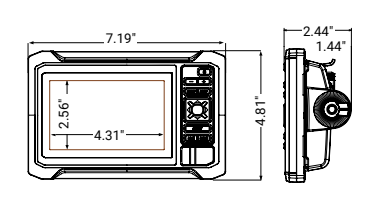
UHD2 94SV/93SV/92SV



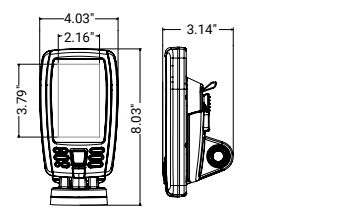
ECHOMAP UHD2 74CV/73CV/72CV



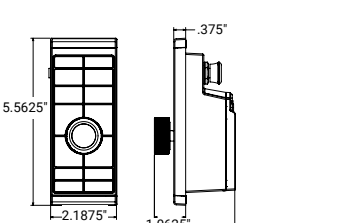
ECHOMAP UHD2 54CV/53CV/52CV



ECHOMAP PLUS 44CV/43CV



GARMIN GRID 20



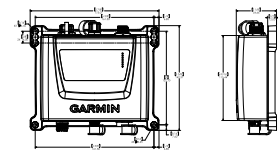
Instruments

	GMI 20	GNX Wind GNX 20 and GNX 21	GNX 120	GNX 130
Bonded Display	Yes	Yes	Yes	Yes
Display Type	Color, QVGA	21-inverted LCD, monochrome 20-standard LCD, monochrome	Inverted LCD, monochrome	Inverted LCD, monochrome
Physical Size (WxH)	4.33" x 4.53" x 1.18" (110 mm x 115 mm x 30 mm)	4.33" x 4.53" x 1.18" (110 x 115 x 30 mm)	7.11" x 4.54" (180 mm x 115 mm)	9.80" x 6.04" (248 mm x 153 mm)
Weight	247 g	230 g	380 g	820 g
Digit Height	1.93" / 49 mm	1.43" / 35 mm (GNX20/21)	2.0" / 51 mm	2.8" / 72 mm
Display Size	4.0" / 102 mm	4.0" / 102 mm	6.3" / 159 mm	9.3" / 236 mm
LCD % of Total Size	39%	40%	53%	53%
Number of Big Digits	3	3	4	4
Functions per Page	1 to 4	1 to 3	1 to 3	1 to 3
Total Data Fields	50+	50+	50+	50+
Background Colors	RGB	RGB	RGB	RGB
Sunlight Visible	Yes	Yes	Yes	Yes
Display Update Rate	1 Hz	Up to 8 Hz	Up to 8 Hz	Up to 8 Hz
Operating Temp	5°F to 158°F / -15°C to 70°C	5°F to 158°F / -15°C to 70°C	5°F to 158°F / -15°C to 70°C	5°F to 158°F / -15°C to 70°C
Power Consumption	3 W (Max light)	350 mW (no backlight), 450 mW (no backlight)	360 mW (no backlight), 400 mW (no backlight)	360 mW (no backlight), 400 mW (no backlight)
Voltage Range	9-16 V (from NMEA 2000)	9-16 V (from NMEA 2000)	9-16 V (from NMEA 2000)	9-16 V (from NMEA 2000)

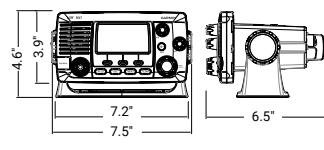
Instruments

GHC 50 Autopilot Control	
Dimensions	5.5" x 4.1" x 2.0" (14.0 x 10.5 x 5.1 cm)
Display Type	800 x 480 WVGA
Display Size	5"
Knob Control	With Grid 10/20
Power Consumption (typical LEN)	2.6 W/13
Remote Control via ANT	Yes
Wi-Fi Connectivity	Yes
Touch Display	Yes
Sunlight Visible	Yes
NMEA 2000	Yes
Operating Temp	5°F to 131°F / -15°C to 55°C
Ethernet	Yes

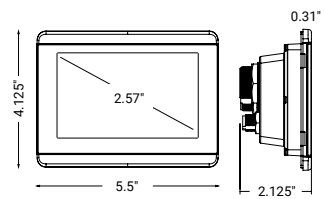
AIS 800



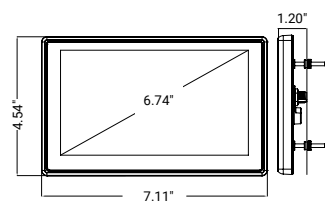
VHF SERIES



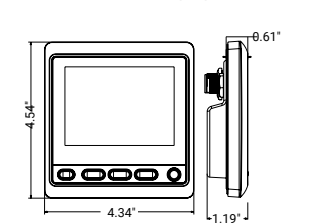
GHC 50



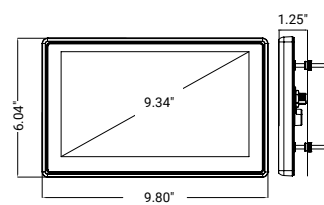
GNX 120



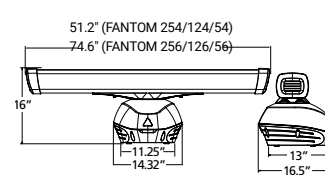
GMI 20 AND GNX 20/21/WIND



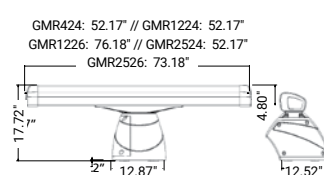
GNX 130



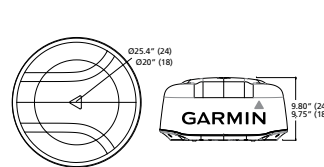
GMR FANTOM SERIES



GMR XHD2 SERIES



GMR DOME SERIES







AIS and VHF

	AIS 800	CORTEX M1	VHF 115	VHF 215	VHF 215 AIS	CORTEX V1	VHF 315
Display Size, Diagonal			2.5"	3.2"	3.2"	4" Color	2" (GHS 11)
Adjustable Backlighting			Yes	Yes	Yes	Yes	Yes (GHS 11)
Class D DSC with Distress and Position Polling			Yes	Yes	Yes	Yes	Yes
Transmitter Power Output	5 W / 2 W	5 W	25 W / 1 W	25 W / 1 W	25 W / 1 W	25 W / 1 W	25 W / 1 W
Dedicated Channel 16 Button			Yes	Yes	Yes	Yes	Yes (GHS 11)
ATIS Compatible			Yes	Yes	Yes	Yes	Yes
NMEA 2000® Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NMEA 0183® Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supports Handset		Yes (Cortex H1 & H1P)		Yes (GHS 11)	Yes (GHS 11)	Yes (Cortex H1 & H1P)	Yes, up to 3 (GHS 11), 1 included
Intercom (requires GHS 11)				Yes	Yes		Yes
Hailer/Foghorn Compatible		Yes		Yes	Yes	Yes	Yes
Internal GPS Receiver	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal GPS Antenna	Yes		Yes	Yes	Yes		
External GPS Options	Antenna	Antenna	Antenna NMEA 2000 NMEA 0183	Antenna NMEA 2000 NMEA 0183	Antenna NMEA 2000 NMEA 0183	Antenna	Antenna
AIS Receiver	Yes	Yes			Yes	Yes	
AIS Transponder	Class B SOTDMA	Class B SOTDMA			Class B CSTDMA	Class B SOTDMA	
Remote Monitoring		Yes				Yes	
Integral VHF Antenna Splitter	Yes	Yes				Yes	

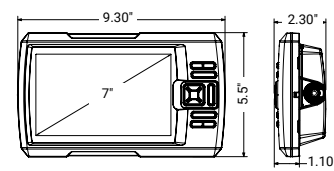
Radars

	GMR Fantom 254/256	GMR Fantom 124/126	GMR 56/54	GMR 2526/1226 xHD2 GMR 2524/1224/424 xHD2	GMR Fantom 24x/18x	GMR 24 xHD/18 xHD	GMR 18HD+
Transmit Power	120W	120W	120W	25kW/12kW/6kW/4kW	40W	4kW	4kW
Dimensions (diameter)	1928 mm (Fantom 126) 1328 mm (Fantom 124)	1928 mm (Fantom 126) 1328 mm (Fantom 124)	1928 mm (Fantom 56) 1328 mm (Fantom 54)	1923 mm (GMR 2526) 1310 mm (GMR 2524)	645 mm (Fantom 24x) 508 mm (Fantom 18x)	645 mm (24 xHD) 508 mm (18 xHD)	508 mm
Rotation Speed (revolutions/min)	24 & 48	24 & 48	24 & 48	24 & 48	24 & 48	24 & 48	24
Weight	23,6 kg (Fantom 126) 21,3 kg (Fantom 124)	23,6 kg (Fantom 126) 21,3 kg (Fantom 124)	23,6 kg (Fantom 56) 21,3 kg (Fantom 54)	29 kg (GMR 2526) 28,1 kg (GMR 2524)	9,5 kg (Fantom 24x) 7,7 kg (Fantom 18x)	9,5 kg (24 xHD) 7,7 kg (18 xHD)	7,7 kg
Horizontal Beamwidth	1.25° (Fantom 126) 1.8° (Fantom 124)	1.25° (Fantom 126) 1.8° (Fantom 124)	1.25° (Fantom 56) 1.8° (Fantom 54)	1.1° (GMR 2524) 1.8° (GMR2524)	3.7° (Fantom 24x) 5.2° (Fantom 18x)	3.5° (24 xHD) 5.2° (18 xHD)	5.2°
Vertical Beamwidth	23°	23°	23°	23°	25°	25°	25°
Maximum/Minimum Range	96 nm/6 m (Fantom 126) 72NM/6 m (Fantom 124)	96 nm/6 m (Fantom 126) 72NM/6 m (Fantom 124)	96 nm/6 m (Fantom 56) 72NM/6 m (Fantom 54)	96 nm/20 m (2526) 72 NM/20 m (1226)	48 nm/6 m	48 nm/20 m	36 nm/20 m
Waterproof According to Standard	IPX6	IPX6	IPX6	IPX6	IPX7	IPX7	IPX7
Power Supply	10-32 V	10-32 V	10-32 V	10-32 V	10-32 V	11 - 35V	10.5-35 V
Power Consumption (typical)	80 W	80 W	80 W	100 W (25 kW), 90 W (12 kW), 65 W (6 kW)	18.1-24.4 W (dependent on range setting)	30 W	33.5 W
Power Consumption (standby)	10 W	10 W	10 W	20 W	3 W	12 W	14 W
Temperature Range	-15 to 55C	-15 to 55C	-15 to 55C	-15 to 55C	-15 to 55C	-15 to 70C	-15 to 60C
Guard Zone with Alarm	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cable Length	15 m	15 m	15 m	15 m	15 m	15 m	15 m
Polarization	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Trails	Heading-corrected, Adjustable	Heading-corrected, Adjustable	Heading-corrected, Adjustable	Adjustable	Heading-corrected, Adjustable	Adjustable	Adjustable
Dual Range	Yes	Yes	Yes	Yes	Yes	Yes	No

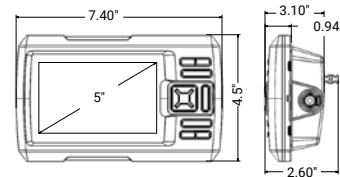
Fishfinders

	STRIKER Vivid 9sv	STRIKER Vivid 7cv/sv	STRIKER Vivid 5cv	STRIKER Vivid 4cv
				
Display Size (diagonal)	9.0"	7.0"	5.0"	4.0"
Display Resolution	800 x 480 WVGA	800 x 480 WVGA	800 x 480 WVGA	480 x 320 HVGA
Internal High-sensitivity GPS	Yes	Yes	Yes	Yes
Built-in Quickdraw	Yes	Yes	Yes	Yes
Built-in Wi-Fi®	Yes	Yes	No	No
CHIRP Traditional Sonar	Yes	Yes	Yes	Yes
Dual Frequency (50/200 kHz)	Yes	Yes	Yes	Yes
Dual Beam (77/200 kHz)	Yes	Yes	Yes	Yes
CHIRP ClearVü	Yes	Yes (7sv with optional transducer)	Yes	Yes
CHIRP SideVü	Yes	N/A	No	No
Included Transducer	CV52HW-TM (High Wide CHIRP/ClearVü/SideVü)	CV20-TM (CHIRP/ClearVü)	CV20-TM (CHIRP/ClearVü)	CV20-TM (CHIRP/ClearVü)
Transmit Power - Included Transducer	250 W Trad 350 W ClearVü/SideVü	500 W Trad 500 W ClearVü	500 W Trad 500 W ClearVü	300 W Trad 300 W ClearVü
Frequencies Supported (kHz)	High-Wide CHIRP (150-240 kHz) ClearVü/SideVü (455/800 kHz)	CHIRP (77/200 kHz) ClearVü (455/800 kHz)	CHIRP (77/200 kHz) ClearVü (455/800 kHz)	CHIRP 77/200 kHz ClearVü (455/800 kHz)
Maximum Depth Capabilities with Included Transducer¹	800 ft (traditional) 250 ft (ClearVü) 500 ft Left/Right (SideVü)	2,300 ft (traditional) 250 ft (ClearVü)	2,300 ft (traditional) 250 ft (ClearVü)	1,750 ft (traditional) 250 ft (ClearVü)
Waypoints	5,000	5,000	5,000	5,000
Audible Alarms	Yes	Yes	Yes	Yes
User Data Sharing Cable Compatible	Yes	Yes	Yes	Yes
Water Temperature Log/Graph	Yes	Yes	Yes	Yes
GPS Speed	Yes	Yes	Yes	Yes
Flasher	Yes	Yes	Yes	Yes

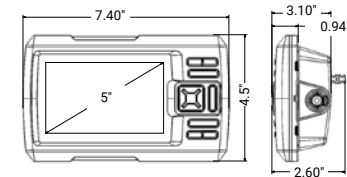
STRIKER VIVID 9SV



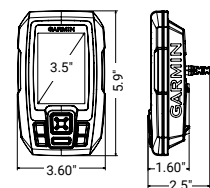
STRIKER VIVID 7CV/SV



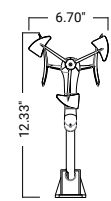
STRIKER VIVID 5CV



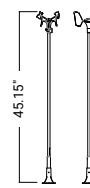
STRIKER VIVID 4CV



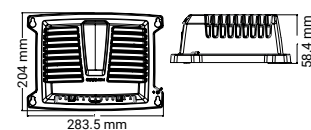
GWIND/GWIND WIRELESS 2



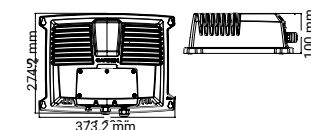
GWIND RACE



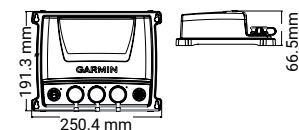
GSD 24







GSD 26





GCV 10 AND GSD 25






gWind

	gWind Transducer	gWind Race Transducer	gWind Wireless 2 Transducer	GND 10
				
Unit Dimensions, WxHxD	610 x 345 mm	H=45.15"	6.70" x 12.33"	6.73" x 3.58" x 1.97"
Weight	260 g	320 g	350 g	196 g
Cable Length	25 m	25 m	N/A	NMEA 2000 (2m) Nexus network (5m)
Water-resistant	IPX6	IPX6	IPX6	IPX6
Temp Range	From -15°C to 70°C	From -15°C to 70°C	From -15°C to 70°C	From -15°C to 70°C
Voltage Range	9-16 V	9-16 V	N/A	9-16 V
Power Usage	0.33 W	0.33 W	Solar-powered	0.85 W
Compass Safe Distance	N/A	N/A	N/A	0.1m
Accuracy Angle	Better than ±1.5°	Better than ±1.5°	Better than ±1.5°	N/A
Speed	Better than ±3%	Better than ±3%	Better than ±3%	N/A
NMEA 2000® Load Equivalency Number (LEN)	N/A	N/A	N/A	4
Wireless Connectivity	No	No	Yes	No

Sonar Modules

	GSD 24	GSD 25	GSD 26	GCV 10	GCV 20
					
Physical Size (WxHxD)	275 x 82 x 204 mm	192 x 66 x 251 mm	363 x 100 x 274 mm	192 x 66 x 251 mm	192 x 66 x 251 mm
White Line	Yes	Yes	Yes	No	No
Water-resistant According to Standard	IPX7	IPX7	IPX7	IPX7	IPX7
Ultrasroll	Yes	Yes	Yes	No	No
Compatible with Dual Frequency Transducers	Yes	Yes	Yes	No	No
Autogain Technology	Yes	Yes	Yes	Yes	Yes
Power Supply	10-35 V	10-35 V	10-35 V	10-35 V	10-35 V
Power Consumption	2-29 W	2-29 W	5-94 W	10.5 W	10.5 W
Maximum Depth¹	5,000 ft	ClearVü: 750 ft SideVü: 500 ft Traditional: 5,000 ft	10,000 ft	ClearVü: 750 ft SideVü: 500 ft	ClearVü: 750 ft SideVü: 500 ft
Fish Symbol ID	Yes	Yes	Yes	No	No
Frequency	Traditional: 50/200, 77/200, 83/200 kHz	Traditional: 50/200, 77/200, 83/200 kHz Single Channel CHIRP: 40-250 kHz Dual Channel CHIRP: 40-250 kHz SideVü/ClearVü CHIRP: 455/800 kHz CHIRP: 260/455 kHz	Traditional: 50/200, 77/200, 83/200 kHz Single Channel CHIRP: 40-250 kHz Dual Channel CHIRP: 40-250 kHz	SideVü/ClearVü CHIRP: 455/800 kHz CHIRP: 260/455 kHz	SideVü/ClearVü CHIRP: 455/800/1200 kHz
Maximum Transducer Angle Dual Frequency	45/10°	45/10°	45/10°	n/a	n/a
Depth Controlled Gain	Yes	Yes	Yes	No	No
See Thru Compatible	Yes	Yes	Yes	No	No
Output Power	Up to 2 kW	Up to 1 kW	Up to 3 kW	500 W	500 W
Garmin Marine Network Compatible	Yes	Yes	Yes	Yes	Yes

Cameras

	GC14 Marine Camera	GC200 Marine IP Camera	GC100 Marine Camera
			
Video Resolution	976(H) x 582(V)	Up to 1920 x 1080P²	720p
Low-light Vision	Up to 15 meters	Up to 30 meters	Up to 3 meters
Water Rating	IPX 7	IPX 7	IPX 7
One-button Start-up			•
Pair multiple Camera			•
Connection to Chartplotter	Composite Video	Ethernet	Wi-Fi®
Hardwired Power	12 V (9-18 VDC)	12 V and POE (9-18 VDC or PoE)	12CDC or 24VDC
Compass Safe Distance	6 1/8" (155 mm)		4" (100 mm)
Operating Temperature	-10 to 50°C (from 14 to 122°F)	-20 to 60°C (from -4 to 140°F)	-20 to 60°C (from -4 to 140°F)
Viewing Angle, DxHxV(°)	95.0° x 69.0° x 52.0°	123° x 99° x 74°	183° x 160° x 90°
Weight	7.2 oz (205 g)	18.3 oz (520 g)	1.7 oz (50 g)
Unit Dimensions	2.0" x 1.7" (5.1 x 4.4 cm)	3.5" x 3.25" (8.9 x 8.3 cm)	2.0" x 1.6" x 1.1" (5.0 x 4.0 x 2.8 cm)
Power Consumption	80 mA (IR Off), 170 mA (IR On)	210 mA (IR Off), 370 mA (IR On)	10 W

¹Maximum depth capacity is dependent on water salinity, bottom type and other water conditions • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

¹Maximum depth capacity is dependent on water salinity, bottom type and other water conditions
²All current Garmin Chartplotters can only support up to 1280x720P

Handhelds

	GPSMAP 276Cx	GPS 73	GPSMAP 79s/79sc	GPSMAP 86s/86sc/86i/86sci 86	inReach Mini 2 Marine Bundle
					
Number of Waypoints	10,000	1,000	2,000	10,000	1000
Internal Map Memory	8.0 GB	No	1.7 GB	16 GB	No
Number of Routes	250	50	200	250	100
Basemap, Preprogrammed Map	Worldwide basemap	No	Worldwide basemap	BlueChart g3 (86sc, 86sci)	No
Additional Map Options	BlueChart g2, City Navigator, topo, topo 24k	No	BlueChart g2 (78sc), City Navigator, Pro, Pro v2 and Prime outdoor maps	86sci/86i: Up to 35 hours in 10-minute tracking mode; up to 200 hours (expedition mode) 86sci 86sc/86s: Up to 40 hours (standard mode); up to 200 hours (expedition mode)	No
Battery Life	Up to 16 hours (lithium-ion); Up to 8 hours (AA batteries)	18+ hours on 2 AA batteries (not included)	20 hours (2 AA)	20 hours (2 AA)	Up to 90 hours at 10-minute tracking (default); up to 35 hours at 10-minute tracking with 1-second logging; up to 24 days at 30-minute tracking power save mode; up to 1 year when powered off
Display Size	5" diagonal	2.6" diagonal	2.6" diagonal	3" diagonal	1.3" diagonal
Display Type	TFT (Transflective)	TFT (Transflective)	TFT (Transflective)	TFT (Transflective)	Sunlight-readable, monochrome, transflective memory-in-pixel (MIP)
Area Calculation	Yes	Yes	Yes	Yes	No
Display Resolution Pixels (HxW)	800 x 480	160 x 128	240 x 160	240 x 400	176 x 176
Standard GPS Antenna	Internal	Internal	Integral quad helix	Integral quad helix	Integral quad helix
BLUETOOTH®	BLUETOOTH / Wi-Fi®	No	No	No	BLUETOOTH Low Energy & ANT+®
TracBack® Function	Yes	Yes	Yes	Yes	Yes
Number of Track Points	20,000	10,000	10,000	20,000	10,000
Weight	450 g (lithium), 415 g (AA)	232,4 g	218 g	272 g	100 g
Alarm	Yes	Yes	Yes	Yes	No
Waterproof According to Standard	IPX7	IPX7	IPX7	IPX7	IPX7
Physical Size in mm (HxWxD)	191 x 94 x 43	157 x 69 x 30	152 x 66 x 30	177.8 x 69.85 x 43.18	51.7 x 99.0 x 26.1
Separate Serial and USB Interfaces	Yes	Yes	Yes	Yes	No
Storage of Cartography	microSD™ memory card	No	microSD™ memory card	microSD™ memory card	No
Backlit Display	Yes	Yes	Yes	Yes	Yes
Input for External Antenna	Yes	No	Yes	Yes	No
WAAS/EGNOS Compatible	Yes	Yes	Yes	Yes	Yes
Integral Electronic Compass	Yes	No	Yes (78s)	Yes	Yes
Integral Barometric Altimeter	Yes	No	Yes (78s)	Yes	No
Automatic Route Calculation	Yes, with City Navigator	No	Yes, with City Navigator	Yes (with optional mapping for detailed roads)	No
Calendar for Hunting/Fishing Times	Yes	Yes	Yes	Yes	No
Solar and Lunar Calendar	Yes	Yes	Yes	Yes	No
Area Waypoints	Yes	Yes	Yes	Yes	No
Tidal Information	Yes	No	Yes	Yes	No
Power Supply (external)	8-36 V	8-36 V	8-36 V	8-36 V	Included USB-C to bare wire: 12V
Waypoint Icons	Yes	Yes	Yes	Yes	Yes
NMEA Compatible	Yes (NMEA 0183)	Yes (NMEA 0183)	Yes (NMEA 0183)	Yes (NMEA 0183)	No
Camera	No	No	No	No	No
Picture Viewer	No	No	Yes	Yes	No
Floats	Yes	Yes	Yes	Yes	No

Wearables

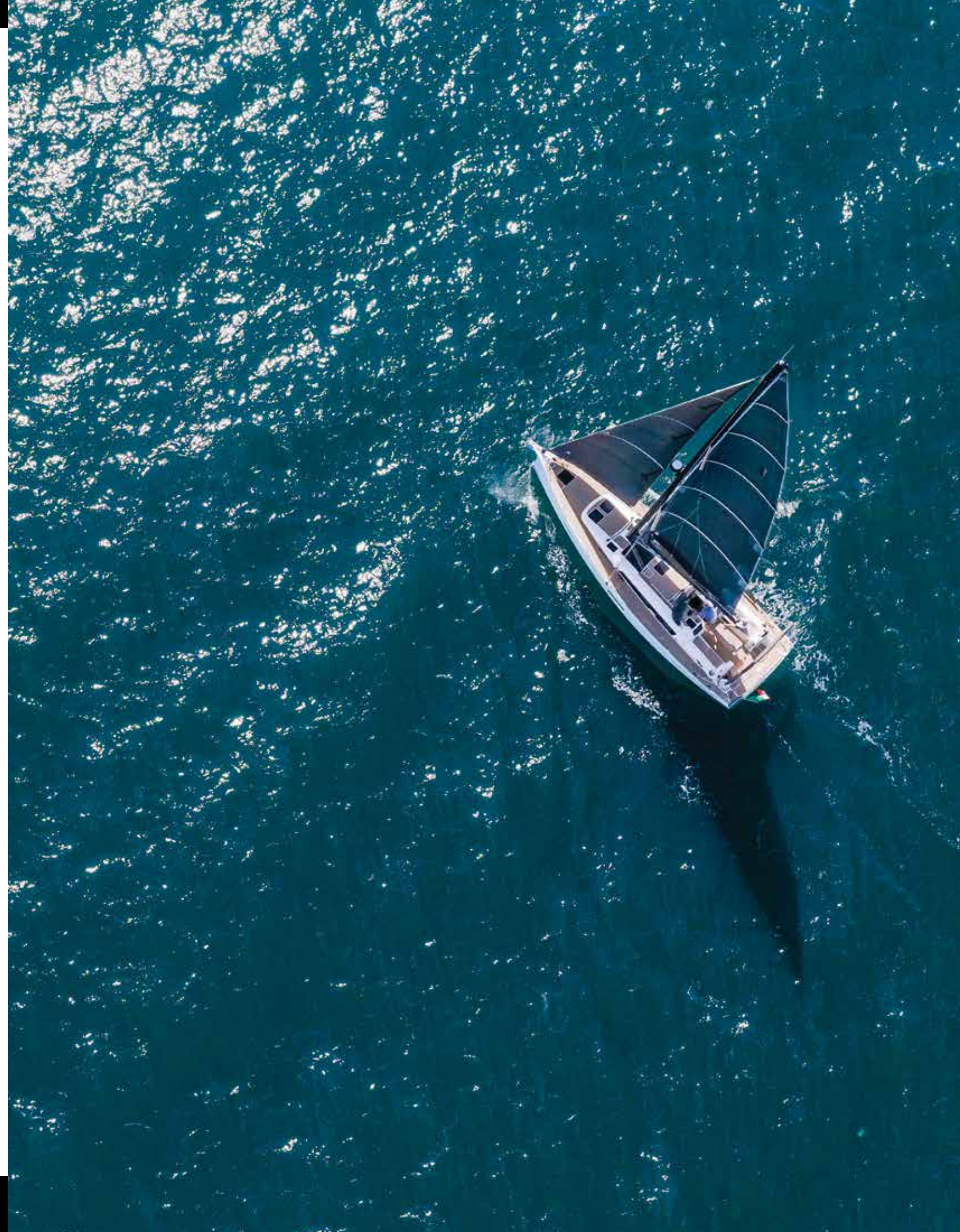
	Instinct 2S/2 – Surf Edition	Instinct 2S/2 Solar – Surf Edition	MARQ Captain	quatrix 7	quatrix 7 – Sapphire Edition	quatrix 7X – Solar Edition
						
Lens Material	Chemically Strengthened Glass	Power Glass™	Domed Sapphire Crystal	Corning® Gorilla® Glass DX	Sapphire Crystal	Power Sapphire™
Case Material	Fiber-reinforced polymer	Fiber-reinforced polymer	Grade-5 Titanium	Fiber-reinforced polymer with titanium rear cover	Fiber-reinforced polymer with titanium rear cover	Fiber-reinforced polymer with titanium rear cover
QuickFit® Watch Bands	Yes (20 mm for 2S, 22 mm for 2)	Yes (20 mm for 2S, 22 mm for 2)	Included (22 mm)	Included (22 mm)	Included (22 mm)	Included (26mm)
Water Rating	10 ATM	10 ATM	10 ATM	10 ATM	10 ATM	10 ATM
Touch Screen	No	No	Yes	Yes	Yes	Yes
Display Type	Monochrome, Sunlight-visible, transflective memory-in-pixel (MIP)	Monochrome Sunlight-visible, transflective memory-in-pixel (MIP)	AMOLED (always-on)	Sunlight-visible, transflective memory-in-pixel (MIP)	AMOLED (always-on)	Sunlight-visible, transflective memory-in-pixel (MIP)
Color Display	No	No	Yes	Yes	Yes	Yes
Battery Life	2S: Smartwatch: up to 21 days Battery Saver Watch Mode: up to 50 days GPS: up to 22 hours	2S: Smartwatch: up to 21 days/51 days with solar¹ GPS: up to 22 hours/28 hours with solar²	Smartwatch: up to 16 days GPS: up to 42 hours GPS + Music: up to 10 hours	Smartwatch: up to 16 days (6 days always-on) Battery-saver watch mode: up to 21 days GPS only: up to 42 hours (30 hours always-on)	Smartwatch: up to 16 days (6 days always-on) Battery-saver watch mode: up to 21 days GPS only: up to 42 hours (30 hours always-on)	Smartwatch: up to 28 days/37 days with solar¹ Battery-saver watch mode: up to 90 days/ 1+ year with solar¹ GPS only: up to 89 hours/ 122 hours with solar²
Smart Mode: Activity Tracking, 24/7 Heart Rate (compatible devices) and BLUETOOTH connectivity	2: Smartwatch: up to 28 days Battery-saver watch mode: up to 65 days GPS: up to 30 hours	2: Smartwatch: up to 28 days/ Unlimited with solar¹ GPS: up to 30 hours/48 hours with solar²		Max battery GPS: up to 75 hours Expedition GPS: up to 14 days	Max battery GPS: up to 75 hours Expedition GPS: up to 14 days	Max battery GPS: up to 213 hours/578 hours with solar² Expedition GPS: up to 62 days/ 139 days with solar¹
Sensors						
GPS/GLONASS/GALILEO	Yes	Yes	Yes	Yes	Yes	Yes
Multifrequency Positioning	No	No	Yes	Yes	Yes	Yes
Health Monitoring						
Wrist-based Heart Rate	Yes	Yes	Yes	Yes	Yes	Yes
Body Battery™ Energy Monitor	Yes	Yes	Yes	Yes	Yes	Yes
Sleep Score and Insights	Yes	Yes	Yes	Yes	Yes	Yes
Health Snapshot	Yes	Yes	Yes	Yes	Yes	Yes
Daily Smart Features						
Connect IQ™	Yes	Yes	Yes	Yes	Yes	Yes
Smart Notifications	Yes	Yes	Yes	Yes	Yes	Yes
Music Storage	No	No	Up to 2,000 songs	Up to 2,000 songs	Up to 2,000 songs	Up to 2,000 songs
Smartphone Compatibility	iPhone, Android	iPhone, Android	iPhone, Android	iPhone, Android	iPhone, Android	iPhone, Android
Garmin Pay™	No	Yes	Yes	Yes	Yes	Yes
Training, Planning and Analysis						
Recovery Time	Yes	Yes	Yes	Yes	Yes	Yes
VO2 Max	Yes	Yes	Yes	Yes	Yes	Yes
Daily Suggested Workouts	Yes	Yes	Yes	Yes	Yes	Yes
Golfing Features						
Preloaded with 42,000 Courses Worldwide	No	No	Yes	Yes	Yes	Yes
Boating Features						
Available Boating Profiles	No	No	Boat, Sail, Fish, Sail Race	Boat, Sail, Sail Race	Boat, Sail, Sail Race	Boat, Sail, Sail Race
Anchor Alarm	No	No	Yes	Yes	Yes	Yes
Autopilot Control	No	No	Yes (with compatible Garmin Marine device equipment)	Yes (with compatible Garmin Marine device equipment)	Yes (with compatible Garmin Marine device equipment)	Yes (with compatible Garmin Marine device equipment)
Boat Data Streaming	No	No	Yes	Yes	Yes	Yes
Virtual Starting Line	No	No	Yes	Yes	Yes	Yes
Countdown Timer	No	No	Yes	Yes	Yes	Yes
Tack Assist Mode	No	No	Yes	Yes	Yes	Yes
Built-in Barometer and Tide Tables	No	No	Yes (downloadable tides)	Yes (downloadable tides)	Yes (downloadable tides)	Yes (downloadable tides)

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¹Assumes all-day wear with 3 hours per day outside in 50,000 lux conditions
²Assumes use in 50,000 lux conditions
iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.
Android is a trademark of Google LLC.

Autopilot Compatibility

Steering Type	Vessel Size/Type and Overall Use	Recommended Core Pack	Drive Unit Type	Components Included in Core Pack	Required Components not Included in Core Pack
Hydraulic	Premium, recommended option for most hydraulic steering installations, including Verado™, power assist and total cylinder volumes up to 24 cubic inches	Reactor™ 40 Hydraulic Core Pack with SmartPump™ v2	SmartPump v2	Reactor 40 SmartPump v2 Shadow Drive	
Hydraulic	Low-cost option and single-cylinder applications with cylinder volumes from 6 to 14 cubic inches	Reactor 40 Hydraulic Autopilot	GHP 1.2 L Pump	Reactor 40 ECU 10 Shadow Drive GHC 50	010-00705-64: GHP 1.2 L Pump
Hydraulic	Low-cost option for dual-cylinder applications with total cylinder volumes from 10 to 24 cubic inches	Reactor 40 Hydraulic Autopilot	GHP 2.0 L Pump	Reactor 40 ECU 10 Shadow Drive GHC 50	010-00705-63: GHP 2.0 L Pump
Hydraulic	Cruising applications only; for single-engine outboard vessels less than 30' long for cylinder sizes up to 10 cubic inches	Compact Reactor™ 40 with Pump, GHC 20™ and Shadow Drive Technology Pack	1.0 L Pump	Reactor 40 Compact ECU 1.0 L Pump Shadow Drive, GHC 50	
Hydraulic	Cruising applications only; for single-engine outboard vessels less than 30' long for cylinder sizes up to 10 cubic inches	Compact Reactor 40 Hydraulic Autopilot with GHC 20 Pack	1.0 L Pump	Reactor 40 Compact ECU 1.0 L Pump Shadow Drive	
Hydraulic	Cruising applications only; for single-engine outboard vessels less than 30' long for cylinder sizes up to 10 cubic inches	Compact Reactor 40 Hydraulic Autopilot Starter Pack	1.0L Pump	Reactor 40 Compact ECU 1.0 L Pump	
Hydraulic	Hydraulic steering vessels with non-Garmin drive units	Reactor 40 Mechanical/Solenoid/Retrofit Corepack	Third-party Drive Unit	Reactor 40 ECU 12 GHC 50	Third-party drive unit 010-11533-00: actuator motor cable, 010-11829-00: GRF 10 rudder sensor; or 010-11532-00 plus third-party rudder sensor
Mechanical Steering	Total vessel displacements from 48,000 to 79,000 pounds	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Class B Linear Actuator	Reactor 40 ECU 12 GHC 50	010-11573-00: Class B linear actuator; has rudder feedback included
Mechanical Steering	Total vessel displacements up to 48,400 pounds	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Class B Compact Linear Actuator	Reactor 40 ECU 12 GHC 50	010-12029-00: Class B linear actuator; has rudder feedback included
Mechanical Steering	Total vessel displacements up to 28,500 pounds, with very low backdrive force required	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Class A Linear Actuator	Reactor 40 ECU 12 GHC 50	010-11572-00: Class A linear actuator; has rudder feedback included
Mechanical Steering	Sailboats with non-Garmin drive units	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Third-party Drive Unit	Reactor 40 ECU 12 GHC 50	Third-party drive unit 010-11533-00: actuator motor cable, 010-11829-00: GRF 10 rudder sensor; or 010-11532-00 plus third-party rudder sensor
Steer by Wire	SeaStar Optimus	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 50	
Steer by Wire	ZF Pod Drive	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 50	
Steer by Wire	YANMAR	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 50	
Steer by Wire	Yamaha Helm Master®	Reactor 40 Steer-by-wire Core Pack for Yamaha Helm Master	Gateway Included	Reactor 40 Autopilot Gateway GHC 50	
Steer by Wire	Volvo IPS or Sterndrive	Reactor 40 Steer-by-wire Core Pack for Volvo-Penta	Gateway Included	Reactor 40 Autopilot Gateway GHC 50	
Steer by Wire	Viking® Viper™	Reactor 40 Steer-by-wire Core Pack for Viking Viper		Reactor 40 GHC 50	
Solenoid	Constant running hydraulic pump systems with solenoid autopilot control	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Third-party Solenoid Required	Reactor 40 ECU 12 GHC 50	010-11533-10: solenoid cable 010-11829-00: GRF 10 rudder sensor or 010-11532-00 plus third-party rudder sensor
Cable Steer	Most cable-steered vessels	Reactor 40 Mechanical/Solenoid/Retrofit Core Pack	Third-party 12VDC Brushed Motor Actuator Required	Reactor 40 ECU 12 GHC 50	010-11533-10: solenoid cable 010-11829-00: GRF 10 rudder sensor or 010-11532-00 plus third-party rudder sensor
Auxiliary Gas Engine (Kicker)	<20 HP auxiliary gas engines from most major manufacturers	Reactor 40 Kicker	Steering Actuator Included	CCU, ECU, Steering Actuator Throttle Actuator Wireless Remote	



PART NUMBERS



GARMIN NETWORK AND MFDS	
GPSMAP 8617	010-01510-50
GPSMAP 8622	010-01511-50
GPSMAP 8624	010-01512-50
GRID 20, Portrait	010-02011-00
GRID 20, Landscape	010-02011-01
Garmin Card Reader	010-01023-00

GPSMAP COMBOS AND STAND-ALONES	
GPSMAP 743, U.S. + Canada Garmin Navionics+	010-02365-60
GPSMAP 743xsv, U.S. + Canada Garmin Navionics+	010-02365-61
GPSMAP 743xsv, U.S. + Canada Garmin Navionics+ w/ GMR 18HD+	010-02365-80
GPSMAP 943, U.S. + Canada Garmin Navionics+	010-02366-60
GPSMAP 943xsv, U.S. + Canada Garmin Navionics+	010-02366-61
GPSMAP 943xsv, U.S. + Canada Garmin Navionics+ w/ GMR 18HD+	010-2366-80
GPSMAP 1243, U.S. + Canada Garmin Navionics+	010-02367-60
GPSMAP 1243xsv, U.S. + Canada Garmin Navionics+	010-02367-61
GPSMAP 1243xsv, U.S. + Canada Garmin Navionics+ w/ GMR 18HD+	010-02367-80
GPSMAP 1042xsv, U.S. + Canada Garmin Navionics+ with Transducer	010-01740-60
GPSMAP 1242xsv, U.S. + Canada Garmin Navionics+ with Transducer	010-01741-60
GPSMAP 8610, U.S. + Canada Garmin Navionics+	010-02091-50
GPSMAP 8612, U.S. + Canada Garmin Navionics+	010-02092-50
GPSMAP 8616, U.S. + Canada Garmin Navionics+	010-02093-50
GPSMAP 8610xsv, U.S. + Canada Garmin Navionics+	010-02091-51
GPSMAP 8612xsv, U.S. + Canada Garmin Navionics+	010-02091-03
GPSMAP 8616xsv, U.S. + Canada Garmin Navionics+	010-02093-51

ECHOMAP ULTRA COMBOS	
ECHOMAP Ultra 106 Integrated LakeVü and BlueChart g3	010-02112-00
ECHOMAP Ultra 106sv, Integrated LakeVü and BlueChart g3	010-02112-01
ECHOMAP Ultra 126 Integrated LakeVü and BlueChart g3	010-02114-00
ECHOMAP Ultra 126sv, Integrated LakeVü and BlueChart g3	010-02114-01

ECHOMAP UHD2	
ECHOMAP UHD2 52cv,WW w/o xdcr	010-02589-00
ECHOMAP UHD2 52cv,WW, w/GT20 xdcr	010-02589-01
ECHOMAP UHD2 53cv, U.S. Lakes + Rivers GN+, w/GT20 xdcr	010-02590-51
ECHOMAP UHD2 54cv, U.S. Coastal + Great Lakes GN+, w/o xdcr	010-02591-50
ECHOMAP UHD2 54cv, U.S. Coastal + Great Lakes GN+, w/GT20 xdcr	010-02591-51
ECHOMAP UHD2 55cv, Canada + Alask GN+, w/GT20 xdcr	010-02592-50
ECHOMAP UHD2 62sv, WW	010-02679-00
ECHOMAP UHD2 62sv, WW with transducer	010-02679-01
ECHOMAP UHD2 63sv, U.S. Lakes + Rivers GN+ with transducer	010-02680-01
ECHOMAP UHD2 64sv, U.S. Coastal + Great Lakes GN+	010-02681-00
ECHOMAP UHD2 64sv, U.S. Coastal + Great Lakes GN+ with transducer	010-02681-01
ECHOMAP UHD2 65sv, Canada + Alaska GN+ with transducer	010-02682-00
ECHOMAP UHD2 72sv, WW with transducer	010-02683-00
ECHOMAP UHD2 73cv, Garmin Navionics+ U.S. Lakes + Rivers GN+, w/GT20 xdcr	010-02594-51
ECHOMAP UHD2 74cv, Garmin Navionics+ U.S. Coastal + Great Lakes GN+, w/GT20	010-02595-51
ECHOMAP UHD2 75cv, Garmin Navionics+ Canada + Alaska GN+, w/GT20 xdcr	010-02596-50
ECHOMAP UHD2 72cv,WW w/o xdcr	010-02593-00
ECHOMAP UHD2 72cv,WW w/GT20 xdcr	010-02593-00
ECHOMAP UHD2 73sv, U.S. Lakes+Rivers GN+	010-02684-00
ECHOMAP UHD2 73sv, U.S. Lakes + Rivers GN+ with transducer	010-02684-01
ECHOMAP UHD2 74sv, U.S. Coastal + Great Lakes GN+	010-02685-00
ECHOMAP UHD2 Touch 92sv, WW w/o xdcr	010-02687-00
ECHOMAP UHD2 Touch 92sv, WW w/GT56 xdcr	010-02687-01
ECHOMAP UHD2 Touch 93sv, U.S. Lakes + Rivers GN+ w/o xdcr	010-02688-00
ECHOMAP UHD2 Touch 93sv, U.S. Lakes + Rivers GN+ w/GT56 xdcr	010-02688-01
ECHOMAP UHD2 Touch 94sv, U.S. Coastal + Great Lakes GN+ w/o xdcr	010-02689-00
ECHOMAP UHD2 Touch 94sv, U.S. Coastal + Great Lakes GN+ w/GT56 x	010-02689-01

FISHFINDERS	
STRIKER 4 U.S. with Dual-beam Transducer	010-01550-00
STRIKER 4 Plus U.S. with Dual-beam Transducer	010-01870-00
STRIKER Vivid 4cv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02550-00
STRIKER Vivid 5cv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02551-00
STRIKER Vivid 7cv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02552-00
STRIKER Vivid 7sv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02553-00
STRIKER Vivid 9sv, U.S. with CHIRP Traditional, CHIRP ClearVü and CHIRP SideVü Transducer	010-02554-01
STRIKER Cast GPS	010-02246-02
STRIKER Cast	010-02246-00

WEATHER SOLUTIONS	
GXM 54 SiriusXM® Marine Receiver (requires subscription)	010-01734-00

SONAR COMPONENTS	
LiveScope Plus System	010-01864-00
LSV34 Transducer	010-02233-00

Transom Mount	010-13228-04
GSD 24 Advanced Sonar Module	010-00957-00
GSD 25 Premium Sonar Module	010-01159-00
GSD 26 CHIRP Professional Sonar Module	010-00958-00
Ultra High-Definition Scanning Sonar System (GCV20 with Transducer)	010-02055-00
GCV 20 Ultra High-Definition Scanning Sonar Black Box Without Transducer	010-02055-10

RADARS	
GMR 18 HD+ Marine Radar	010-01719-00
GMR 18 xHD Marine Radar	010-00959-00
GMR 24 xHD Marine Radar	010-00960-00
GMR 424 xHD2 Kit, 4' Open Array and 4 kW Pedestal	K10-00012-08
GMR 426 xHD2 Kit, 6' Open Array and 4 kW Pedestal	K10-00012-23
GMR 1224 xHD2 Kit, 4' Open Array and 12 kW Pedestal	K10-00012-11
GMR 2524 xHD2 Kit, 4' Open Array and 25 kW Pedestal	K10-00012-15
GMR 1226 xHD2 Kit, 6' Open Array and 12 kW Pedestal	K10-00012-12
GMR 2526 xHD2 Kit, 6' Open Array and 25 kW Pedestal	K10-00012-16
GMR Phantom Dome 18x	010-01706-00
GMR Phantom Dome 24x	010-01707-00
GMR Phantom 54	K10-00012-17
GMR Phantom 56	K10-00012-18
GMR Phantom 124	K10-00012-08
GMR Phantom 126	K10-00012-20
GMR Phantom 254	K10-00012-20
GMR Phantom 256	K10-00012-22
GMR 1224 xHD2	K10-00012-11
GMR 1226 xHD2	K10-00012-12
GMR 2524 xHD2	K10-00012-15
GMR 2526 xHD2	K10-00012-16

AUTOPILOTS	
GHC 50 Marine Autopilot Control Display	010-02731-00
Reactor 40 Autopilot Remote	010-12833-10
Compact Reactor 40 - Hydraulic Corepack Starter Kit	010-00705-06
Compact Reactor 40 - Hydraulic Autopilot with GHC 50	010-02794-07
Compact Reactor 40 - Hydraulic Autopilot with GHC 50 and Shadow Drive	010-02794-08
Reactor 40 - Hydraulic Corepack	010-00705-19
Reactor 40 - Hydraulic with SmartPump v2 Corepack	010-00705-79
Reactor 40 - Mechanical/Retrofit/Solenoid Corepack	010-00705-49
Reactor 40 - Steer-by-wire Standard Corepack	010-00705-86
Reactor 40 - Steer-by-wire Corepack for Yamaha Helm Master	010-00705-87
Reactor 40 - Steer-by-wire Corepack for Viper	010-00705-88
Reactor 40 - Steer-by-wire Corepack for Volvo Penta	010-00705-89
Reactor 40 Kicker Hydraulic Autopilot with GHC 50 Autopilot Display	010-02794-09
Reactor 40 Kicker Hydraulic Autopilot without GHC 50 Autopilot Display	010-02794-09
1.2-liter Pump Kit, fits Verado, 1-2 Outboards Under 400 HP Total	010-00705-96
2-liter Pump Kit, Hydraulic Steering Under 10 Cubic Inches	010-11097-00
1.2-liter Pump Kit	010-00705-64
2-liter Pump Kit	010-00705-63
Class A Drive Unit (for sailboats with up to 28,500 lb of displacement)	010-11572-00
Class B Drive Unit (for sailboats with up to 79,000 lb of displacement)	010-11573-00
Class B Compact Drive Unit (for sailboats with up to 48,400 lb of displacement)	010-12029-00

NOTE: See current Garmin/Navionics cartography catalog for coverage areas and pricing. Separate catalogs are also available for Garmin ice fishing and FUSION audio products.

COMMUNICATIONS	
GHS 11, U.S., Black	010-01759-00
VHF 115, North America	010-02096-00
VHF 215, North America	010-02097-00
VHF 215 AIS, North America	010-20298-00
VHF 315	010-02047-00
Cortex V1 VHF Marine Radio	010-02814-20
Cortex M1 smartAIS	010-02815-20
AIS 800	010-02087-00
WEARABLES	
quatix 7	010-02540-60
quatix 7 - Sapphire Edition	010-02582-60
quatix 7 - Solar Edition	010-02541-60
MARQ Captain	010-02006-06
SAILING	
GND 10 Black Box Bridge	010-01226-00
gWind	010-01227-00
gWind Wireless 2	010-01616-00
gWind Race	010-01228-00
INSTRUMENTS	
GMI 20, Marine Instrument Display	010-01140-00
GNX 20 Marine Instrument with Standard 4" LCD	010-01142-00
GNX 21 Marine Instrument with Inverted 4" LCD	010-01142-10
GNX 120 Marine Instrument with 7" LCD	010-01395-00
GNX 130 Marine Instrument with 10" LCD	010-01396-00
GNX Wind	010-01142-30
GNX Keypad	010-12255-00
GNX Wireless Wind Pack	010-01616-10
GNX Wireless Sail Pack 52	010-01616-40
GNX Wireless Sail Pack 43	010-01616-30
GNX Wired Sail Pack 43	010-01248-60
GNX Wirel Sail Pack 52	010-01248-70
GMI Wired Start Pack 52	010-01248-80
OTHER	
NMEA 2000 Starter Kit	010-11442-00
GFS 10 Fuel Sensor	010-00671-00
GC 14 Marine Camera	010-02122-00
GC 100 Marine Camera	010-01865-30
GC 200 Marine IP Camera	010-02164-00
GMS 10 Network Port Expander (Network Device)	010-00351-00
GNT 10 NMEA Transceiver	010-01134-00
GPS 19x HVS	010-01010-00
GPS 19x NMEA 2000®	010-01010-10
GPS 24XD RECEIVER	010-01010-10
9-axis Heading Sensor	010-11417-20
inReach Mini 2	010-01879-02
inReach Mini 2 Marine Bundle	010-02602-30
MSC 10 Marine Satellite Compass	010-02407-00
GNA 10 Jog Lever Adapter	XXX-XXXX-XX





MARINE SUPPORT CENTER

The Garmin Marine Support Center is our online reference site where you will find answers to frequently asked questions and resources to help with installation, operation, how-to's and troubleshooting of Garmin products for a wide range of boating, fishing and other water-centric activities.

Visit the Garmin Marine Support Center online at: <https://support.garmin.com/en-US/marine/>.

TIME TO USE YOUR GARMIN MARINE ELECTRONICS

To make using and understanding your Garmin electronics as easy as possible, we offer several online resources where you can watch informative videos that show our newest products in action. You can find videos that clearly explain and demonstrate everything from installation and setup to step-by-step "how-to-use" guidance that will help you get the most enjoyment and best performance from your Garmin electronics.



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QUESTIONS?

If you still haven't received the answer or explanation you need, you can always contact one of our knowledgeable representatives by email or phone.



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Fri. 8 a.m.–5 p.m. (CT)
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