GARMIN

2022 | MARINE CATALOG

CONTENTS

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-RENOWNED FOR ENGINEERING INNOVATIVE AUDIO SOLUTIONS THAT ARE ENJOYED AROUND THE GLOBE BY THE MOST PRESTIGIOUS BOAT DESIGNERS AND MANUFACTURERS.

NAVIONICS®
A Garmin Brand

CARTOGRAPHY

EXPERIENCE UNPARALLELED COVERAGE AND BRILLIANT DETAIL WHEN YOU'RE ON THE WATER. NAVIONICS PROVIDES DETAILED MARINE CHARTS AND LAKE MAPS FOR MOST CHARTPLOTTERS, BOTH THROUGH ITS OWN BRANDED PRODUCTS AND WITHIN BLUECHART® G3 AND LAKEVÜ G3 CARTOGRAPHY FOR GARMIN DEVICES.

EmpirBus™
A Garmin Brand

DIGITAL SWITCHING

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.
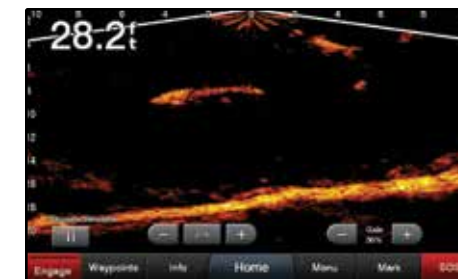
PANOPTIX LIVESCOPE™

Our award-winning Panoptix LiveScope sonar brings real-time scanning sonar to life. It shows highly detailed, easy-to-interpret live scanning sonar images of structure, bait and fish swimming below and around your boat in real time, even when your boat is stationary.
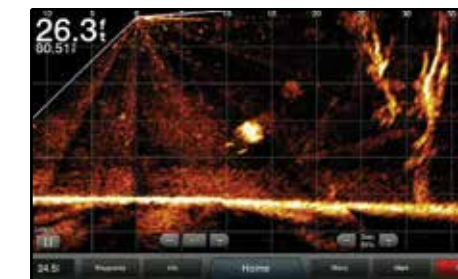
Part no: 010-02143-00 LVS32

## THREE MODES IN ONE TRANSDUCER

PANOPTIX LIVESCOPE™ DOWN

Live, easy-to-interpret scanning sonar images of structure and swimming fish in incredible detail below your boat — up to 200' away.

PANOPTIX LIVESCOPE™ FORWARD

An excellent tool for scouting and fishing out ahead of your cast, it can show real-time scanning sonar images of structure and fish swimming all around your boat — up to 200' away.

PANOPTIX LIVESCOPE™ PERSPECTIVE MODE
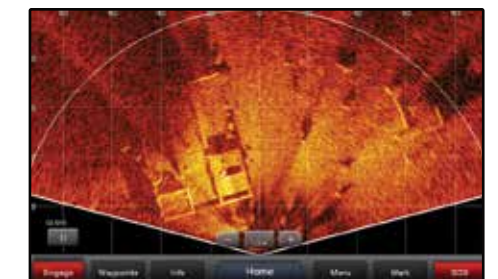
Easily adjust this transducer to how you fish. Point forward to see around your boat, point down to see directly below your boat or adjust to get perspective view, an overhead angle for shallow water.

PANOPTIX LIVESCOPE SCANNING SONAR SYSTEM
Part no: 010-01864-00 Includes Trolling/Transom Mounts | Part no: 010-02233-00 Includes Thru-hull Mount

Includes a compact GLS 10 sonar black box with LVS32 transducer and simple plug-and-play Garmin Marine Network connector to install easily and integrate seamlessly with your compatible Garmin chartplotter[1]. Use the transducer as a supplemental traditional and ClearVü sonar source to see a historical representation of structure and fish below your boat. Available with trolling motor, transom and thru-hull mount transducer options.

PANOPTIX LIVESCOPE™ PERSPECTIVE MODE MOUNT

See what's beneath the surface like never before with this transducer positioning accessory. Get incredibly detailed, real-time images of what's all around and ahead of the boat — including bait, fish and structure. You'll still be able to adjust the transducer to fit your fishing techniques, including LiveScope Forward view to see around your boat and LiveScope Down view for what's below your boat. With the addition of the Perspective Mode Mount, you'll be able to see what's out in front and down from your boat with an overhead vantage point — making it great for shallow water.

ADDED PERSPECTIVE
Easy-to-interpret, highly detailed live scanning sonar lets you scout fish and structure in shallow waters up to 50'.

ROCK-STEADY SONAR
Built-in AHRS attitude/heading reference keeps the sonar view stable, even in rough conditions.

ONE MOUNT, THREE VIEWS
Select scanning sonar views for Forward, Down and Perspective modes with trolling motor mounting (no transom mount available).

AUTO-DETECTION
Update the software on your compatible chartplotter[1] to get auto-detection of each mode.
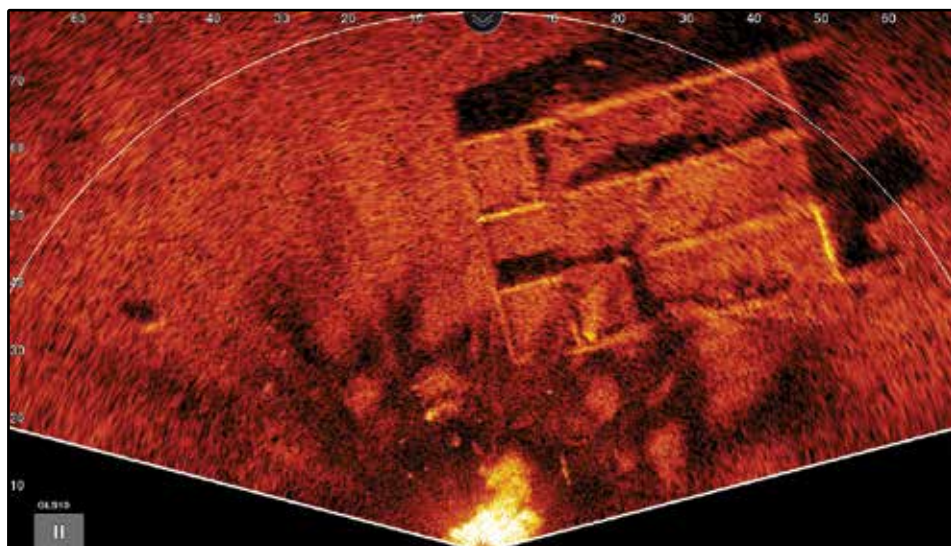
PANOPTIX LIVESCOPE™ DOWN

PANOPTIX LIVESCOPE™ FORWARD

PANOPTIX LIVESCOPE™ PERSPECTIVE MODE

LIVESCOPE™ DOWN

LIVESCOPE™ FORWARD

LIVESCOPE™ PERSPECTIVE MODE

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 3 forward views: LiveVü Forward, RealVü 3-D Forward and FrontVü.

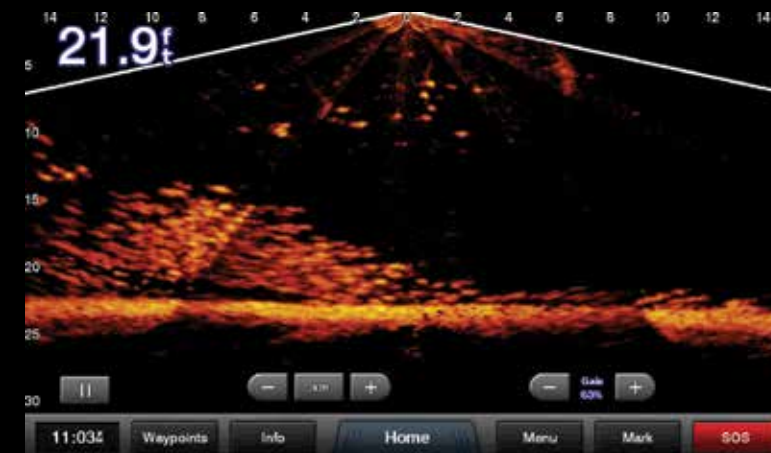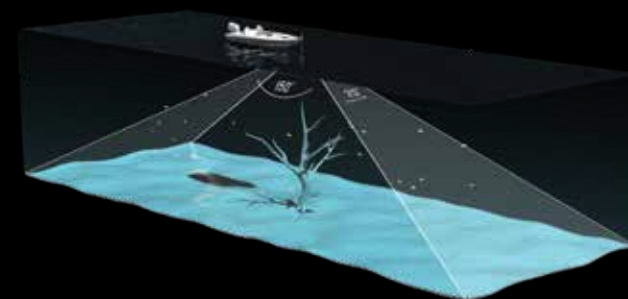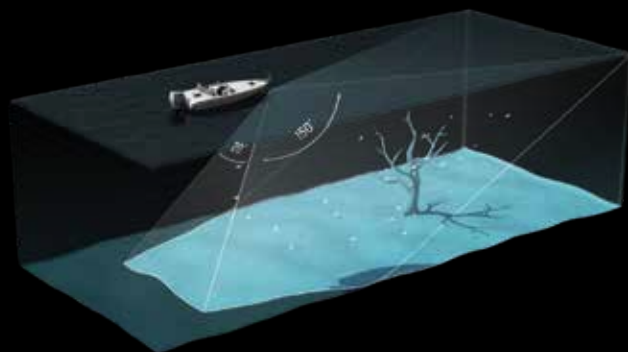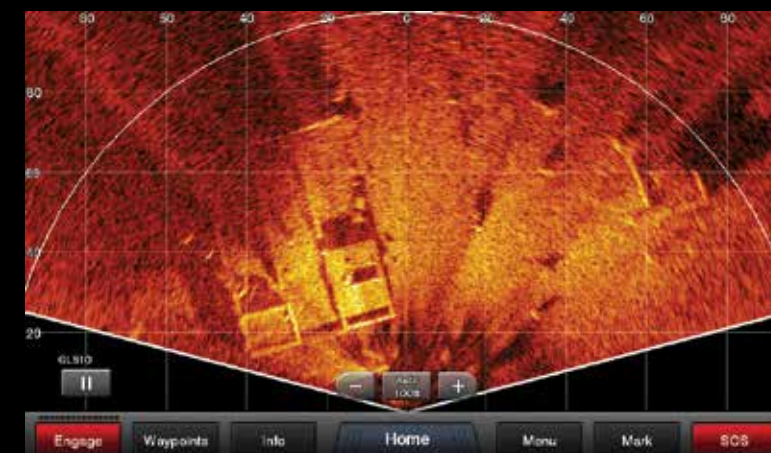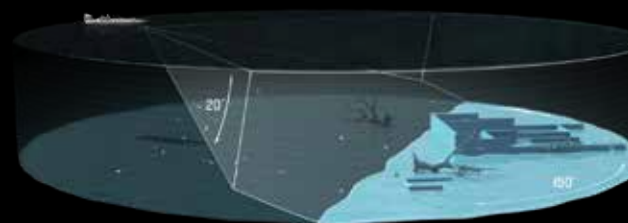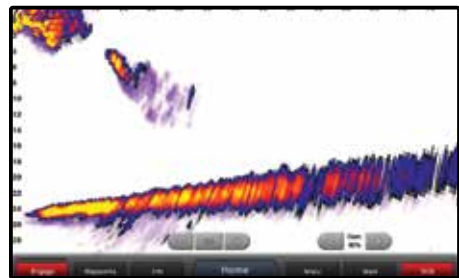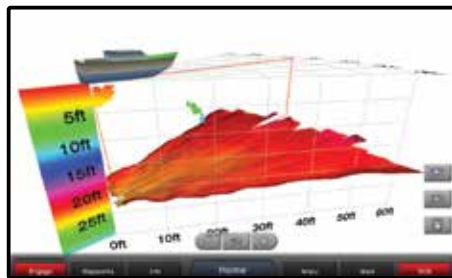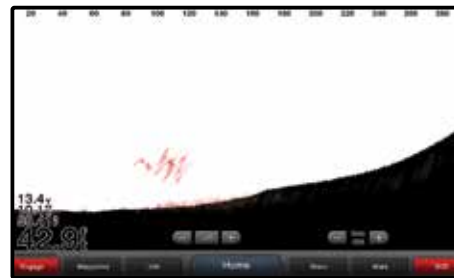### LIVEVÜ FORWARD

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 3-D view of the bottom, structure and fish[1].

FRONTVÜ

To help give you time to avoid collisions[2] with submerged obstacles, FrontVü shows underwater obstructions within a 300' range as you approach them in real time.

PANOPTIX DOWN

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

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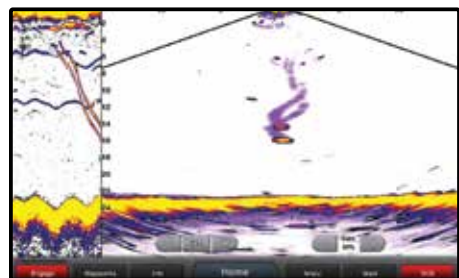
Shows real-time moving sonar images of small baitfish and large target fish swimming below your boat and pinpoints their distance left or right and their depths.

REALVÜ 3-D HISTORICAL
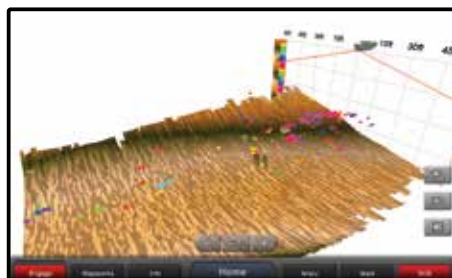
Scrolls through sonar data as the boat moves to show the history of the entire water column from the bottom to the surface and all the fish in between.

REALVÜ 3-D DOWN

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

PANOPTIX FRONTVÜ SONAR

Multibeam thru-hull transducer with premium FrontVü forward-looking sonar helps you avoid running aground[1] 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.
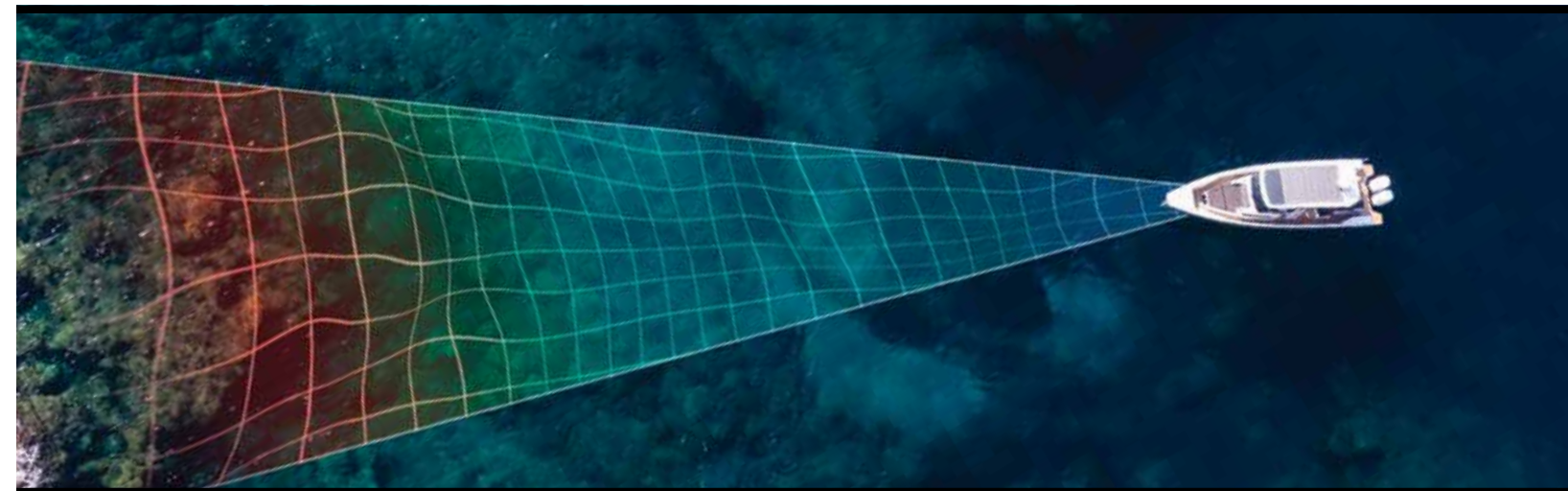
THE LINEUP

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

[1]The 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. • [2]The ability to effectively avoid running aground with FrontVü sonar decreases as speed rises above 8 knots.

[1]The ability to effectively avoid running aground with FrontVü sonar decreases as speed rises above 8 knots. • [2]The 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

CHIRP 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.
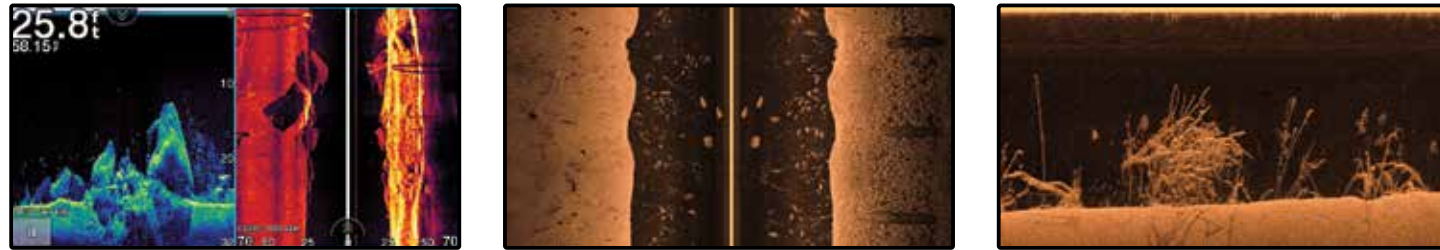
VIVID SONAR

See fish and structure in colorful detail with Vivid scanning sonar. It features high-contrast color palettes and realistic target imaging to show you precisely what's beneath the surface.
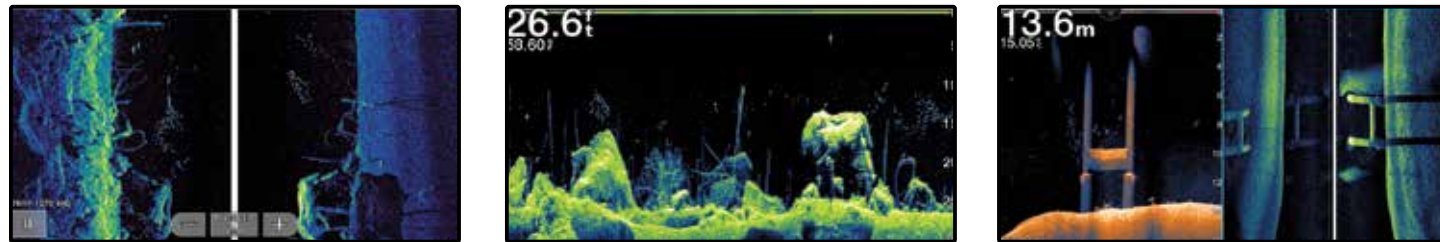
TRADITIONAL CHIRP SONAR

Garmin CHIRP traditional 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.
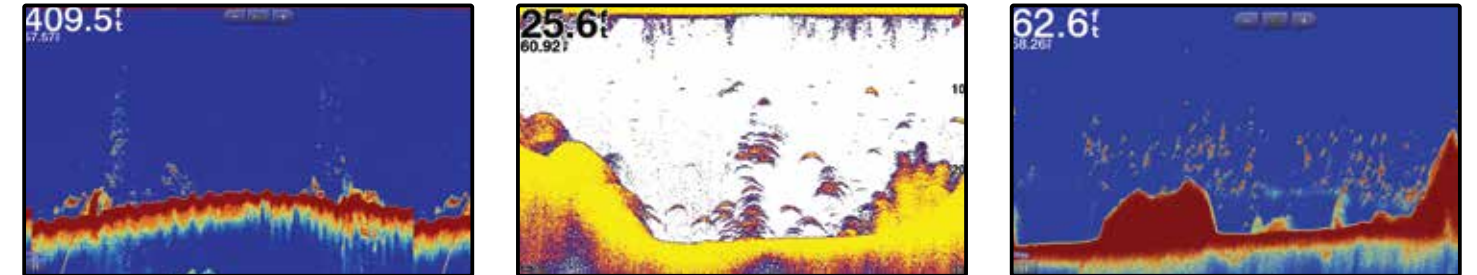
UHD CHIRP CLEARVÜ

ClearVü with CHIRP technology 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.
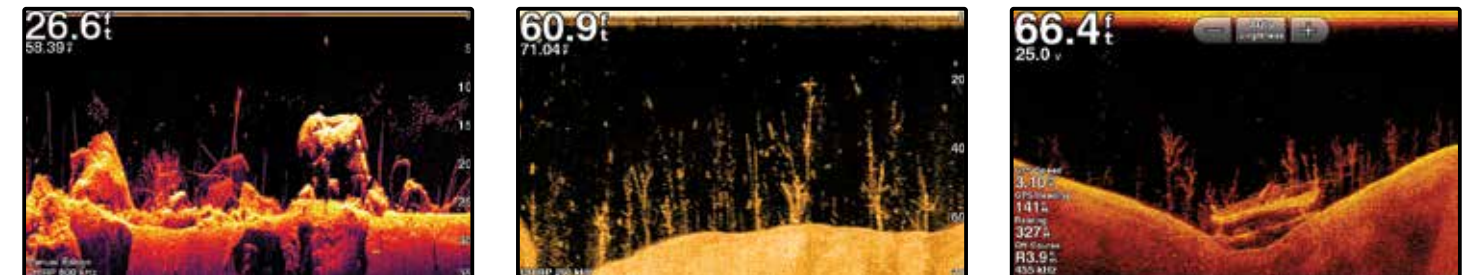
UHD CHIRP SIDEVÜ

SideVü with CHIRP technology 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.
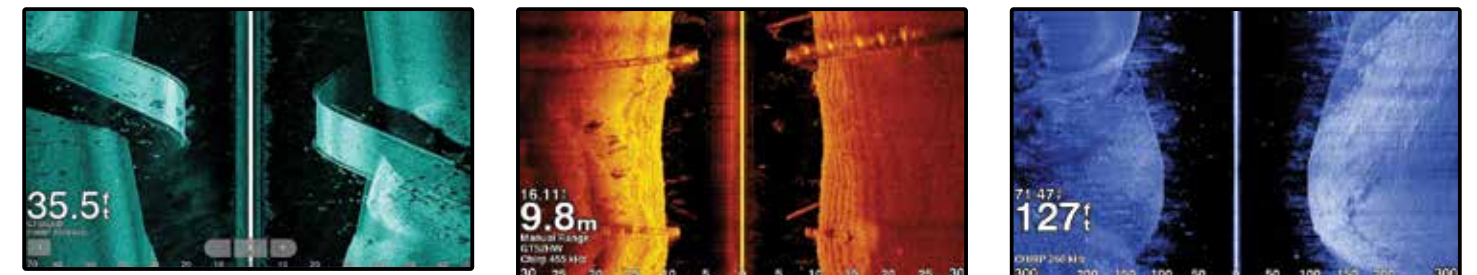
CARTOGRAPHY AND APPS

THE BEST OF GARMIN WITH THE BEST OF NAVIONICS®

Experience unparalleled coverage and brilliant detail when you're on the water. Garmin BlueChart® g3 coastal charts and LakeVü g3 inland maps feature integrated Garmin and Navionics® data. Plus, Navionics data delivers marine charts and lake maps for 3rd party chartplotters compatible with those formats.

NAVIONICS
A Garmin Brand   Worlwide coverage available

Worldwide coverage available   NAVIONICS
A Garmin Brand

BLUECHART® G3

Experience unparalleled coverage and brilliant detail when you're on the water. BlueChart g3 coastal charts provide exceptional coverage, clarity and detail with integrated Garmin and Navionics content. The charts also display suggested routes with Auto Guidance[1].

BLUECHART® G3 VISION

BlueChart g3 Vision is our premium chart offering, which includes all the reliability, functionality and integrated Garmin and Navionics® content of BlueChart g3 while adding even more exceptional features such as high-resolution relief shading to help you along your journeys.

ADVANCED CHART DETAIL

Highly detailed charts with Navionics data help mariners guide their boats in and out of port with confidence.

DETAILED CONTOURS
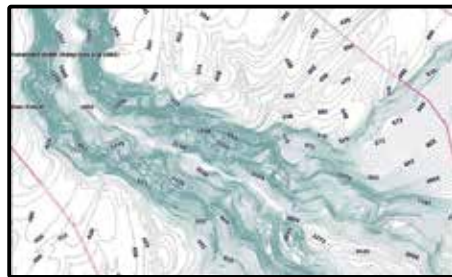
Up to 1[1] contours provide a more accurate depiction of bottom structure for improved fishing charts and enhanced detail in swamps, canals and port plans.

RASTER CARTOGRAPHY

Download NOAA raster areas for free via the ActiveCaptain® app to your compatible smartphone to provide enhanced clarity and consistency.

HIGH-RESOLUTION RELIEF SHADING

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

AERIAL PHOTOGRAPHY

Pictures show exceptional detail of many ports, harbors and marinas. This is ideal when entering unfamiliar areas.

HIGH-RESOLUTION SATELLITE IMAGERY

High-resolution satellite imagery overlaid onto navigational charts provides a realistic view of your surroundings.

AUTO GUIDANCE

Auto Guidance[1] technology calculates a suggested route to your destination.

DEPTH RANGE SHADING
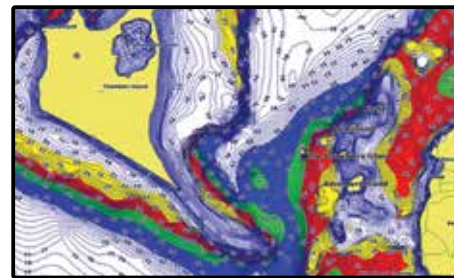
Select depth range shading for up to 10 depth ranges to view your target depth at a glance.

3-D VIEWS
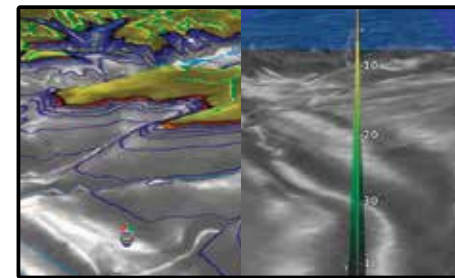
MarinersEye and FishEye views provide 3-D representations of the surrounding area above and below the waterline.

SHALLOW WATER SHADING
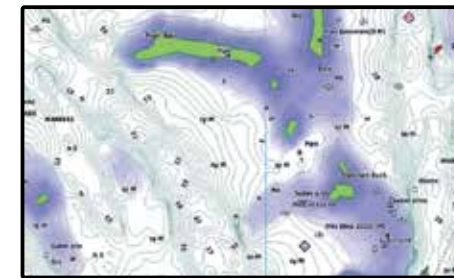
Shallow water shading for a user-defined depth gives a clear picture of shallow waters to avoid.

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations. Not all chart features will display on all devices, particularly legacy devices. As engineering enhancements are ongoing, new features may not display on such legacy products, as well.

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations

LAKEVÜ INLAND MAPS

NAVIONICS
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NAVIONICS
A Garmin Brand

LAKEVÜ G3

LakeVü g3 inland maps provide exceptional coverage, clarity and detail with integrated Garmin and Navionics® content. The charts also display suggested routes with Auto Guidance[1]. You'll get coverage on more than 18,000 lakes with up to 1' contours.

LAKEVÜ G3 ULTRA

Our premium inland map collection, divided into East and West regions, includes all the exceptional features of LakeVü g3, while adding extra mapping features.
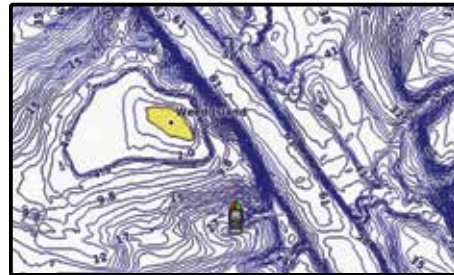
1' CONTOURS

Up to 1' contours provide a detailed and clear view of the the lake floor so you can catch more fish and navigate with confidence.
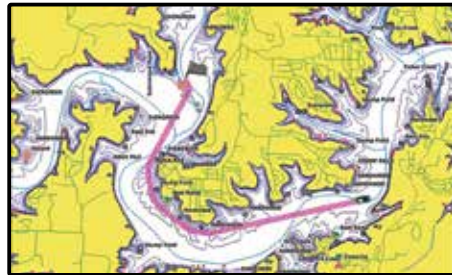
AUTO GUIDANCE

Auto Guidance[1] technology calculates a suggested route to your destination.

DEPTH RANGE/SHALLOW WATER SHADING
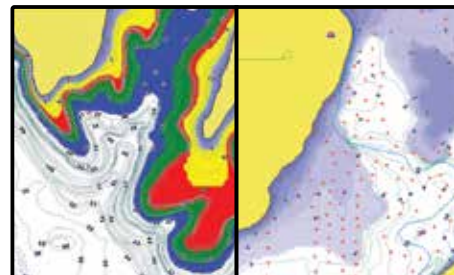
High-resolution depth range shading for up to 10 depth ranges and shallow water shading for a user-defined depth gives a clear picture of shallow waters to avoid.

HIGH-RESOLUTION RELIEF SHADING
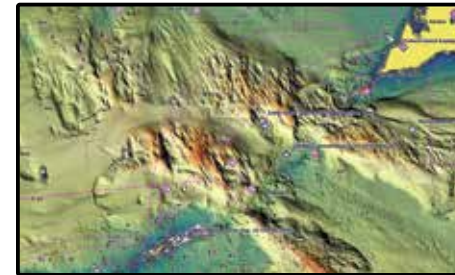
Highly-detailed shading combines color and shadow to provide an easy-to-interpret, clearer view of bottom structure than contour lines alone.

SONAR IMAGERY
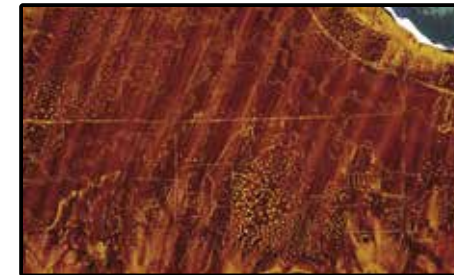
The sonar imagery feature reveals bottom hardness clearly and in color, highlighting both subtle and dramatic transition areas on select U.S. lakes.

DYNAMIC LAKE LEVEL
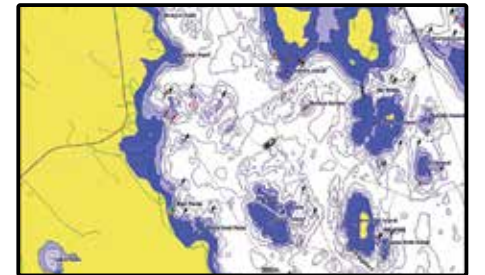
Adjust your maps to the lake's current water levels to see if spots are accessible or too shallow to explore.

SURFACE PHOTOS

Get a better sense of your surroundings above the waterline with photos of docks, boat ramps, bridges, dams, and more.

SIDE SCAN
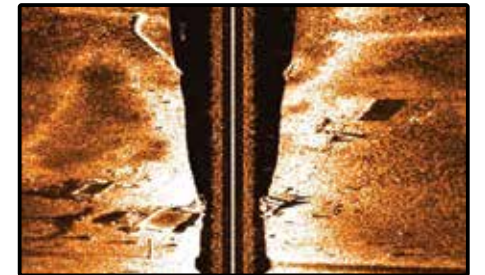
Check out submerged features such as fallen timber, fish attractors, wrecks, and more.

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations

CANADA LAKEVÜ G3

NAVIONICS
A Garmin Brand

Canada LakeVü g3 gives you coverage on more than 8,100 lakes, which are HD maps with up to 1' contours that provide clearer lake floor views, allowing you to catch more fish and navigate with confidence

Auto Guidance feature shows the suggested route to a destination[1]

Depth Range Shading enables you to view your target depth at a glance for up to 10 depth ranges

Shallow Water Shading lets you input and shade a minimum depth to help you avoid running aground

Displays detailed shorelines and coastlines as well as underwater features such as riverbeds, fish attractors and potential hazards

CANADA LAKEVÜ G3 ULTRA

Our premium inland maps for Canada include everything available with Canada LakeVü g3 and more:

Unique 3-D views such as MarinerEye and FishEye for additional perspective above and below the waterline

Dynamic Lake Level lets you adjust the map based on current water levels
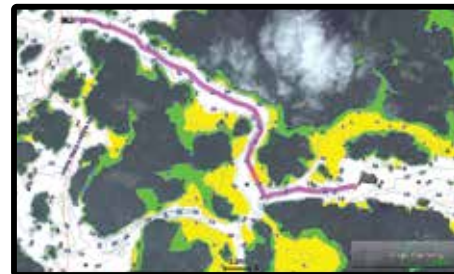
STANDARD MAPPING®

Standard Mapping cartography is compatible with select Garmin chartplotters and MFDs. These accessory cards provide highly detailed, locally sourced data with rich updated imagery to help you navigate your favorite areas with confidence. Available regions include Texas, Louisiana, Mississippi, Alabama and Florida. Choose from classic, premium or professional accessory cards.
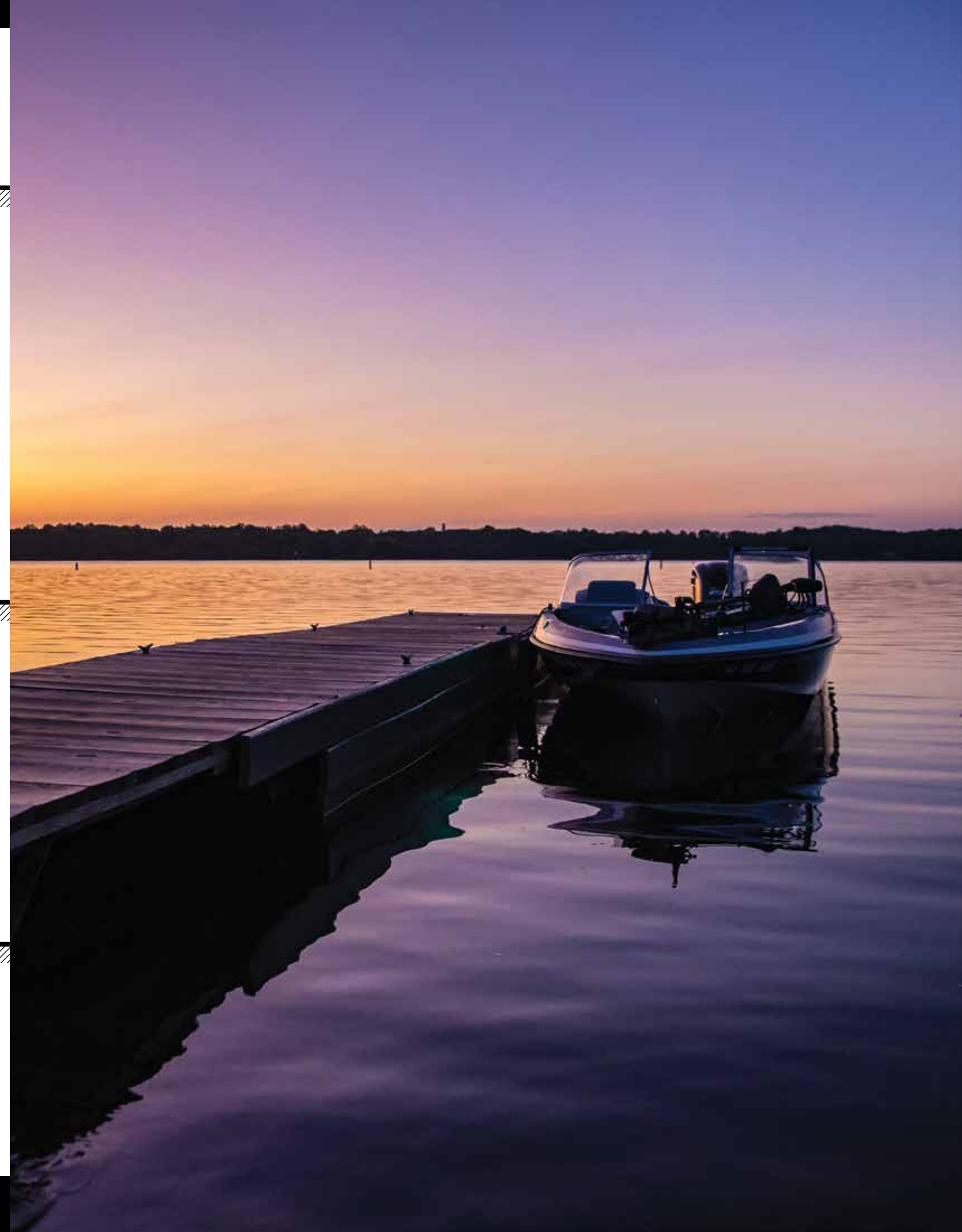
[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations. Not all map features will display on all devices, particularly legacy devices. As engineering enhancements are ongoing, new features may not display on such legacy products.

NAVIONICS A Garmin Brand — Worlwide coverage available

NAVIONICS A Garmin Brand

Since Garmin and Navionics came together, we have been combining the best of our data and technology to produce superior cartography products for boaters all over the world. Navionics cartography is available on MSD/SD cards for a variety of hardware brands. Plus, the same detailed marine and lake charts can go beyond the helm via the Navionics Boating app on your Apple® or Android™ mobile device.

Start out from day one with up-to-date charts. An included one-year subscription provides access to daily updates and advanced features.

NAVIONICS+

Provides complete inshore to offshore marine content, plus rivers, bays and more than 41,000 lakes around the world. Available in very large coverage areas or more localized chart cuts.

MARINE CHARTS AND LAKE MAPS

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 MAP
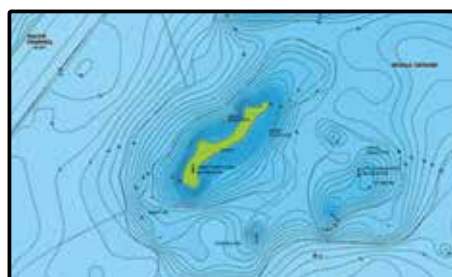
An HD bathymetry map featuring extraordinary bottom contour detail for marine and lake areas. Great for increasing awareness of shallow waters and for locating fishing areas at any depth level.

COMMUNITY EDITS

All kinds of valuable local information is constantly enhanced by users of the Navionics Boating app, such as seasonal buoys, lights, rocks, moorings, boat ramps, points of interest, restaurants and provisioning shops.

ADVANCED FEATURES

DOCK-TO-DOCK AUTOROUTING[1]

Head to your next destination with Dock-to-dock Autorouting, which calculates a suggested route based on chart data and your own boat settings.

SONARCHART LIVE MAPPING
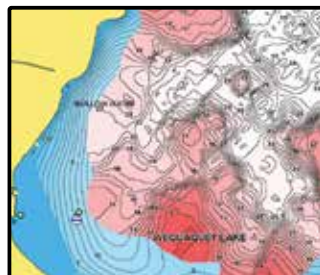
Create your own maps on the fly. Watch new 1'/0.5 m HD bathymetry maps develop in real time as your boat moves along the water.

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.

PLOTTER SYNC

Transfer routes and markers, update charts and more between your plotter card and mobile app — wirelessly. You can even activate or renew your card's subscription and upload sonar logs.

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.

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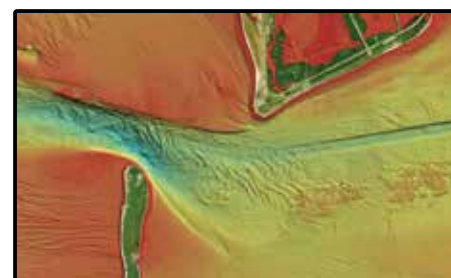
The Navionics relief shading feature brings bottom detail to life, from shallow flats to deep offshore canyons, in a vivid, colorful representation that helps boaters gain a better understanding of bottom topography.

SONARCHART™ SHADING

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
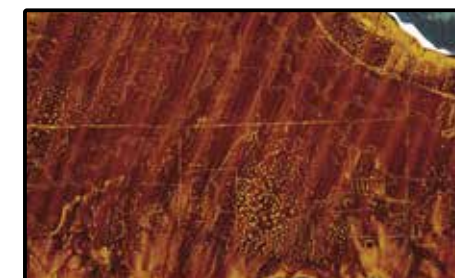
To help find the best fishing spots, sonar imagery reveals bottom hardness and structural characteristics in contrasting color on select U.S. lakes.

PLATINUM+

MARINE CHARTS

Comprehensive coastal charts deliver premium content on oceans, major rivers and seas. Choose from coverage areas worldwide.

PANORAMIC PHOTOS

Heading into a new marina can be less stressful when you have an understanding of the layout that only a picture can provide.

3D VIEW

Dynamic 3D View allows you to customize your chart to highlight key features for a better awareness of your surroundings.

HOTMAPS PLATINUM

LAKE MAPS

A dedicated lakes product available only in U.S. and Canada. Five huge regions cover more than 24,000 lakes, ponds and reservoirs.

BOATING APP

The Navionics Boating app provides content and features that go where you go, including SonarChart Shading and relief shading overlays. As a companion to the chartplotter or on its own, the app also delivers incredibly useful functionality such as the new Connections feature that lets you share your live location, tracks, routes and markers with friends and fellow boaters, GPX file sharing, AIS traffic monitoring, weather forecasts and more. The Boating app is available as a separate purchase for Apple® and Android™ devices and offers a free trial before subscribing.

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[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations. 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.

NOTE: Navionics cards are not compatible with Garmin GPS chartplotters.
[1]Autorouting is for planning purposes only and does not replace safe navigation operations
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ACTIVECAPTAIN® APP

Give yourself the advantages of the ultimate connected boating experience. Download the free all-in-one ActiveCaptain app to your compatible smartphone. It provides you with a powerful connection to your Garmin chartplotter, charts, maps and the community. Wherever you are, you can have unlimited access to your cartography, purchase new maps and charts and access the Garmin Quickdraw™ Contours Community. In addition, new features enable you to add photos to reviews and enjoy a consistent look and experience across the ActiveCaptain mobile app and online web interface.

SPECIAL ACTIVECAPTAIN FEATURES

OneChart™ gives you access to all your charts and maps from your mobile device and lets you purchase new ones

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

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

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

A picture is worth a thousand words — especially now that you can add photos to your ActiveCaptain reviews of marinas, restaurants and more

Make, save and transfer routes and waypoints between the app and chartplotter — with zero button presses[1]

Easily upload and download the latest Garmin Quickdraw™ Contours content from the community — with zero button presses[1]

View and control your chartplotter from your smartphone or tablet

Use with the OnDeck™ remote connectivity system to track, monitor and control up to 5 switches on your boat from virtually anywhere

[1]Zero button presses applies to GPSMAP® chartplotters
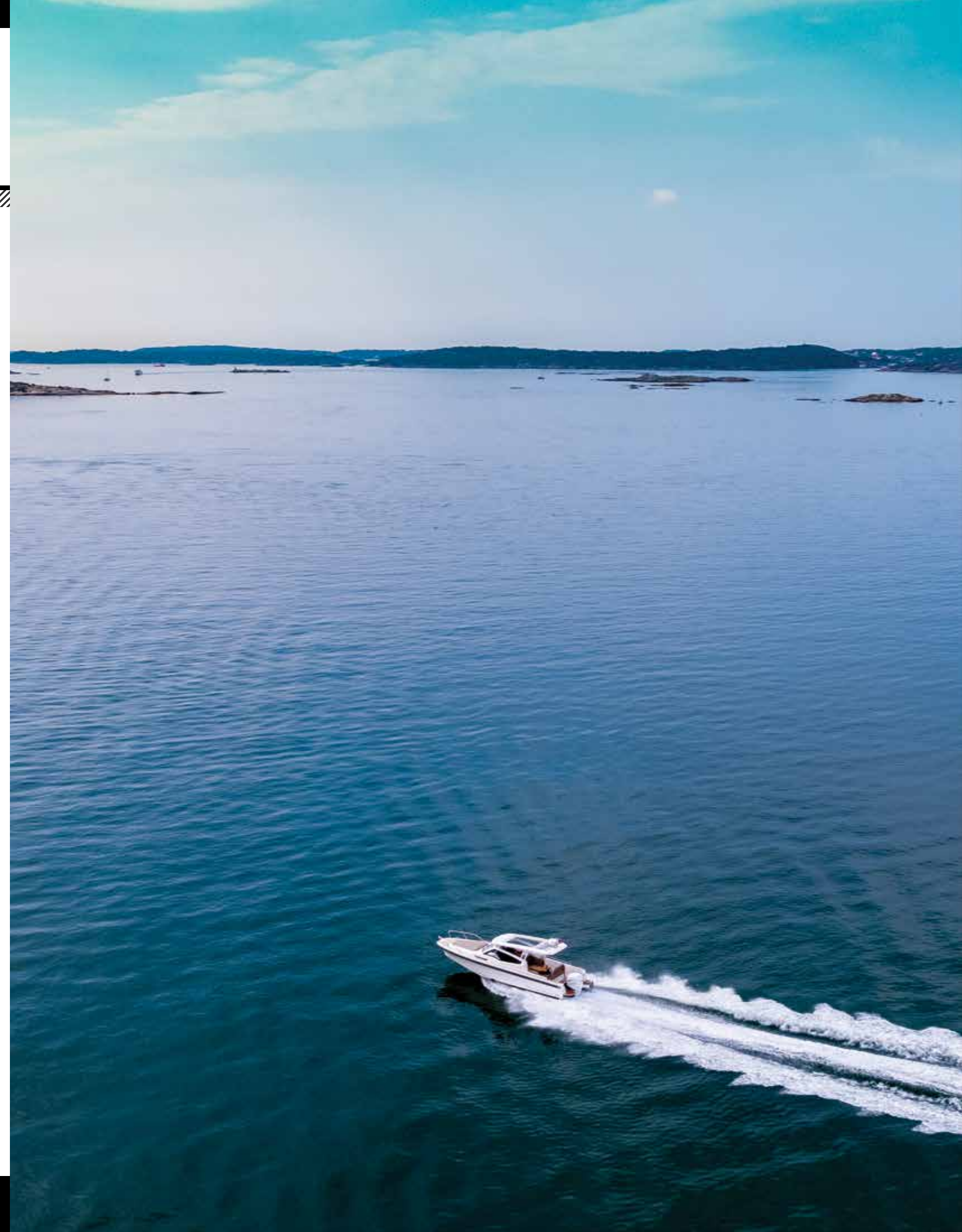
BUILD, MANAGE AND CONTROL
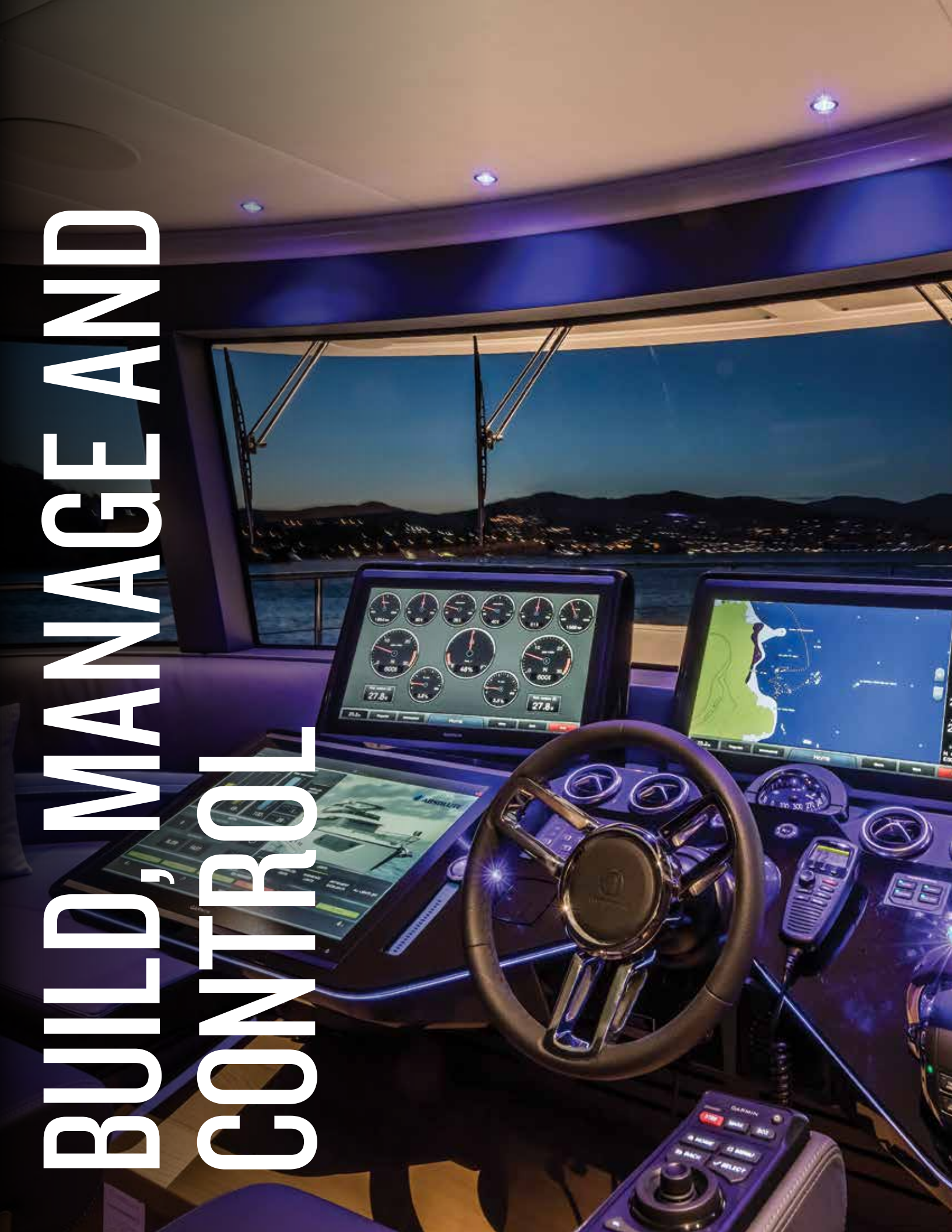
BUILD A COMPLETE ONBOARD SYSTEM

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
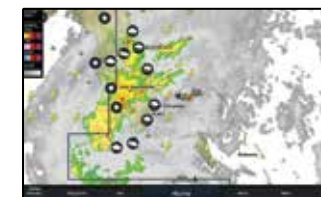
CAMERA

RADAR
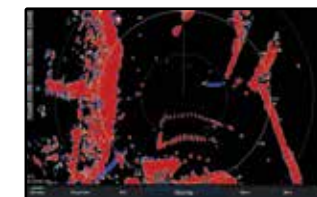
FUSION-LINK

SONAR
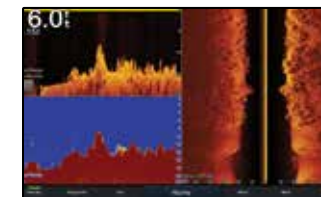
AUTOPILOT
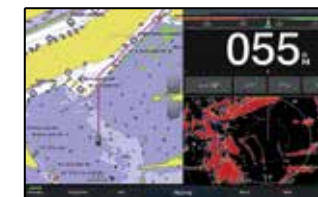
ENGINE DATA

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 onboard[1].

DIGITAL SWITCHING / EMPIRBUS

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 allow cruisers, sailors and anglers to easily control virtually any device on their vessel – from propulsion to pumps, air conditioning to infotainment. This connectivity enhances situational awareness and helps make time on the water even more enjoyable.

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 up to 5 switches on your boat from virtually anywhere. The system includes the GTB 10 OnDeck hub for collecting and storing data; door, temperature and shore power sensors for notifications and alerts; a relay switch for remote control of up to 5 systems and more[1].

TRACK
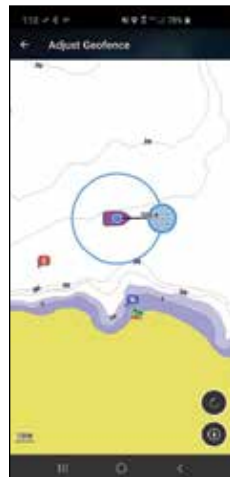
Be the first to know if a security sensor has been triggered, or if your boat has been moved. The internal GPS sensor updates every 15 or 30 minutes, depending on power status, and will send text alerts[1] if your boat leaves the geofenced area.

MONITOR

Get updates[1] on your boat's battery status, bilge activity, shore power, temperature changes and more. Set up alarm notifications in the ActiveCaptain® app.

CONTROL

Get out on the water faster when you turn on up to 5 selected systems, including battery chargers, ice makers and more, from afar via relay switches.

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 more[1].

STORE DATA
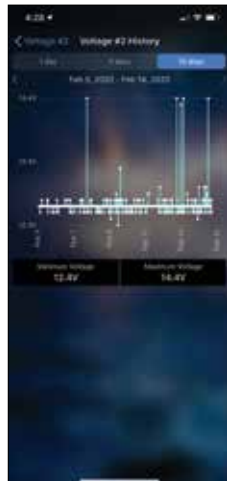
Securely collect vessel data with the GTB 10 OnDeck Hub and store it in the cloud for up to 30 days.

ALWAYS ON CONNECTION

GTB 10
Part no: 010-02134-00

The GTB 10 hub uses 3G/4G coverage.

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

EmpirBus
A Garmin Brand

EmpirBus brings 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 switching system comprises one or more compact digital distribution control modules (DCM) and master control units (MCU). 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 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

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 M6 studs, stainless steel. In addition there is also a connector for EnOcean antenna. All output channels are electronically protected and feature undercurrent protection as well as soft start / stop 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 as well as capability of controlling and synchronizing window wipers.

EMPIRBUS NXT MASTER CONTROL UNIT (MCU)

The NXT Master Control Unit is an essential component of a NXT installation and provides multiple functions. It is the central processor that drives the system, provides the computing power, intelligence and decision making. In addition there are various interfaces for connection to external devices.

The master Control Unit (MCU) is a NMEA 2000 device and talks to all of the other system components via the NMEA2000 network. The MCU both stores and executes the configuration files for the installation holding data for every EmpirBus unit present. Should any unit or membrane panel need to be replaced it is the MCU that distributes the specific data to the replacement. The base address of the new component has been entered. Standard Microsoft drivers are utilised for connecting the MCU to the PC, no drivers required. The GSM interface provides possibilities for interaction with the system utilizing SMS. A three-digit display provides displaying parameters and messages. Touch buttons allow new settings to be entered. The GSM interface provides possibilities for nteraction with the system utilizing SMS. A three-digit display provides displaying parameters and messages. Touch buttons allow new settings to be entered.

EMPIRBUS WEB DISPLAY UNIT (WDU)

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

The WDU 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.

TD 50 OEM 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.

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.

Garmin Network
NMEA
Extern CAN

DCM
DCM
WDU
CONNECT 50
MCU
DCM
DCM
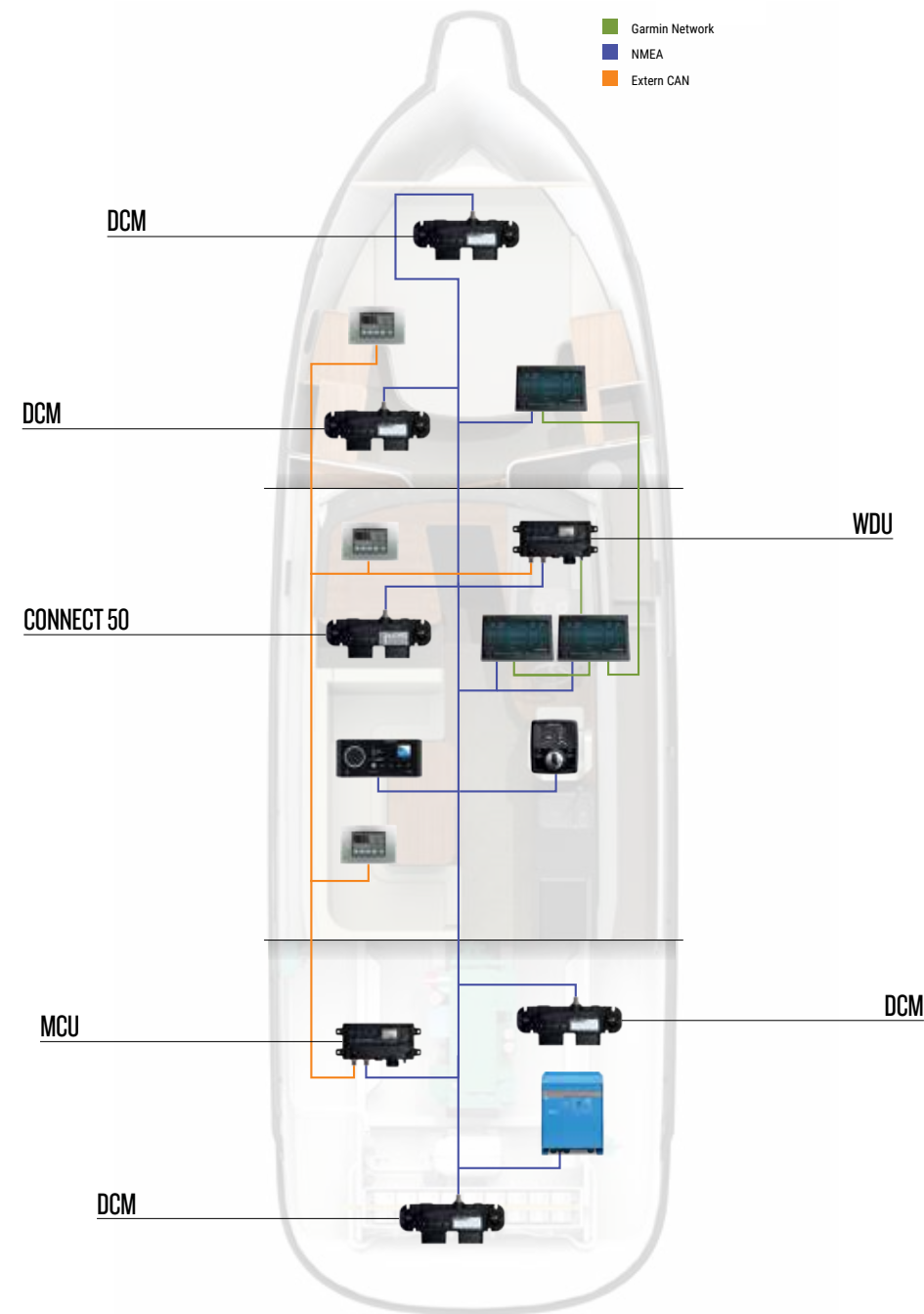
MARINE ENTERTAINMENT

FUSION® MARINE ENTERTAINMENT

THE SUM OF AUDIO INNOVATION

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® STEREOS

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™ Series* 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

An entirely new creation sculpted from the experience of the past, designed with a vision of the future, and delivered in an unparalleled form factor of premium elegance. The Apollo Series has redefined audio excellence through revolutionary technology coupled with innovative design never seen before in the marine industry, forever changing the face of marine entertainment and becoming the standard in which all others will be shaped.

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® 2, 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 2*, over-the-air software updates* and PartyBus-Network technology*.

MS-WB670

The Apollo WB670 hideaway stereo is designed to save dash space at the helm with its compact form factor. It inherits key features from the Apollo RA670, including Fusion DSP, PartyBus-Network technology*, Wi-Fi audio streaming* with Apple AirPlay 2* and over-the-air software updates.* It includes Multi-Zone technology in three zones and Fusion-Link control.

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.

Works with Apple AirPlay

QUALITY, CONVENIENCE, BEST IN CLASS. THE ONLY MARINE STEREOS 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 2* 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

DSP

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.

Built-in Wi-Fi

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.

Wireless Software Updates

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.

PARTYBUS NETWORK 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.

*MS-RA670 / MS-WB670 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.

*MS-RA670 / MS-WB670 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.

APOLLO AMPLIFIERS

THE POWER OF *Music*   **NEW**

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 system[1]. Capable of producing an impressive 150-watt RMS per channel, the monoblock and multichannel amplifiers add extra power to your system. 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 feature[2] 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 acoustic properties of the speakers 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 available in: 6.5" | 7.7" | 8.8"

SIGNATURE SERIES SPEAKERS

The new, revamped Signature Series 3 speakers push the boundaries of what is possible on the water even further — delivering stunning signature acoustic performance from Fusion now with industry-first CRGBW LED lighting (sports-style only). By incorporating both Cool White and Warm White to the standard RGB LEDs, an unprecedented spectrum of colors can now illuminate your boat. From premium pastels to vibrant hues to match your music for an unparalleled, more ambient on-water entertainment experience.

Available in: 6.5" | 7.7" | 8.8"

SIGNATURE SERIES SUBWOOFERS   **NEW**

Take your boating experience to the next level with premium low frequencies and industry-first CRGBW lighting (sports-style only). The 12" subwoofer is engineered to pack a thunderous 1,400-watts of peak power — so you can truly feel the Power of Music.

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 new 24-volt, 6-channel amplifier is now 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   **NEW**

The new 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 a perimeter bonded, anti-fogging LCD 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.

GPSMAP® 8600 MFD SERIES
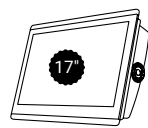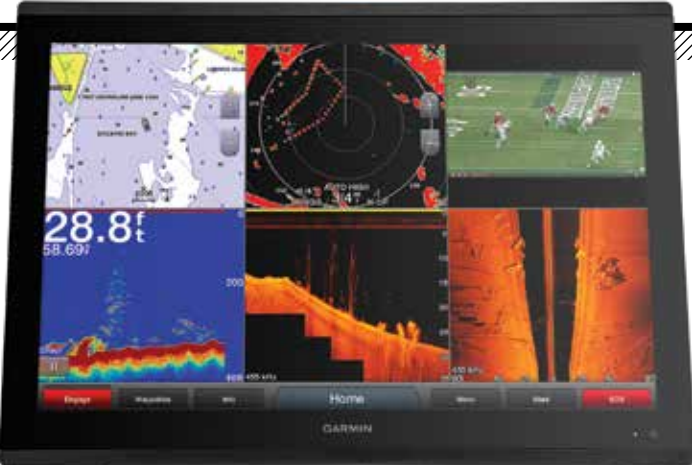
GPSMAP 8617: 010-01510-01 | **GPSMAP 8622: 010-01511-01** | **GPSMAP 8624: 010-01512-01**

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.

NMEA 2020 Product Award Winner

| PINCH TO ZOOM TOUCHSCREEN | HIGH RESOLUTION, IPS DISPLAY | HIGH PERFORMANCE PROCESSOR | FULLY NETWORKABLE |

BLUECHART G3 CHARTS

Highly detailed maps and cartography featuring Navionics data and Auto Guidance technology[1].

FANTOM RADAR
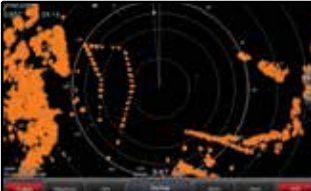
Supports Fantom™ radar with MotionScope™ technology.

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 notifications[2], 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.

GPSMAP® 8600 CHARTPLOTTER SERIES

010-02091-01 | 8610
010-02091-03 | 8610xsv

010-02092-01 | 8612
010-02092-03 | 8612xsv

010-02093-01 | 8616
010-02093-03 | 8616xsv

Chartplotter and chartplotter/sonar combos featuring full HD in-plane switching (IPS) touchscreen displays for wider viewing angles, superior clarity and sunlight readability even with polarized sunglasses. Preloaded BlueChart® g3 U.S. coastal charts and LakeVü g3 inland maps each featuring Navionics® data and Auto Guidance[1] technology.

| 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.

PANOPTIX LIVESCOPE™

Supports all Panoptix sonar, including Panoptix LiveScope system.

BLUECHART G3 CHARTS

Highly detailed maps and cartography featuring Navionics data and Auto Guidance technology[1].

GMR FANTOM™ RADAR
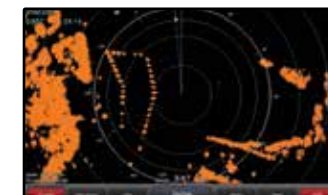
Supports Fantom radar with MotionScope™ technology.

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 Panoptix LiveScope system, Panoptix LiveScope™ LVS12 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 exclusive BlueChart g3 coastal charts and LakeVu g3 inland maps, which have integrated Navionics data, as well as Auto Guidance[1]

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 Wi-Fi to pair with the free ActiveCaptain® app for access to OneChart™, smart notifications[2], 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

010-02365-01 | 743
010-02365-03 | 743xsv

010-02366-01 | 943
010-02366-03 | 943xsv

010-02367-01 | 1243
010-02667-03 | 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 capabilities[1], J1939 engine connectivity, OneHelm™ digital switching and more.

| J1939 ENGINE CONNECTIVITY | ONEHELM DIGITAL SWITCHING CAPABILITIES | AVAILABLE WITH BLUECHART® G3 AND LAKEVÜ G3 CARTOGRAPHY WITH AUTO GUIDANCE TECHNOLOGY[2] | XSV MODELS INCLUDE BUILT-IN SUPPORT FOR THE FULL SUITE OF GARMIN SONAR OPTIONS[2] |

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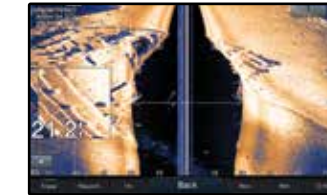
Offers built-in support for the Ultra High-Definition scanning sonar system; no black box needed.

PANOPTIX LIVESCOPE™
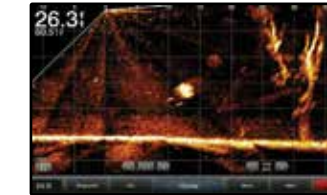
Supports all Panoptix™ sonar, including Panoptix LiveScope™ System and Panoptix LiveScope™ LVS12. (sold separately).

BLUECHART G3 CHARTS

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

NMEA 2000® AND NMEA 0183 NETWORKS

Connect with autopilots, 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 Wi-Fi® networking to pair with the free ActiveCaptain® app[3] for access to OneChart™, smart notifications, software updates 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

[1]Auto Guidance is for planning purposes only and does not replace safe navigation operations • [2]When paired with a compatible smartphone; see Garmin.com/ble • 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.

[1]Available with or without included transducer
[2]Auto Guidance is for planning purposes only and does not replace safe navigation operations
[3]Additional equipment (sold separately) and device pairing requirede

GPSMAP® 1042/1242 SERIES
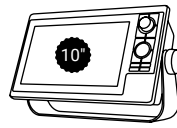
010-01740-03 | 1042
010-01740-21 | 1042 + transducer
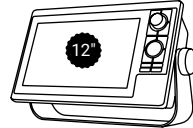
010-01741-03 | 1242
010-01741-03 | 1242 + transducer

All-in-one networking chartplotter/sonar combos with keypad interfaces and multifunction control knob, traditional and scanning sonar capabilities[1], preloaded BlueChart® g3 U.S. coastal charts and LakeVü g3 inland maps each featuring Navionics® data and Auto Guidance[2] technology.

| KEYED INTERFACE WITH MULTIFUNCTION CONTROL KNOB | FULLY NETWORKABLE | BUILT-IN CHIRP TRADITIONAL, CLEARVÜ AND SIDEVÜ SCANNING SONAR[1] | PRELOADED BLUECHART G3 CHARTS FEATURING NAVIONICS DATA AND AUTO GUIDANCE[2] |

BUILT-IN SONAR[1]
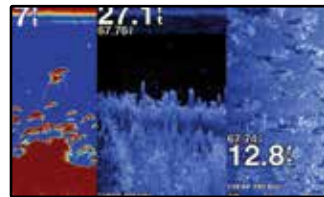
All feature incredibly real CHIRP Traditional sonar.

FANTOM™ RADAR
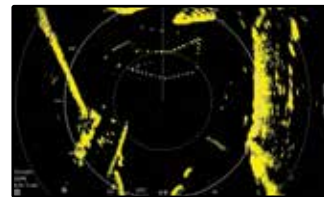
Supports Fantom radar with MotionScope™ technology.

BLUECHART G3 CHARTS
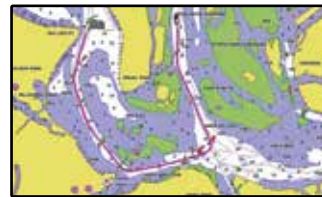
Highly detailed maps and cartography featuring Navionics data and Auto Guidance technology[2].

PANOPTIX LIVESCOPE™
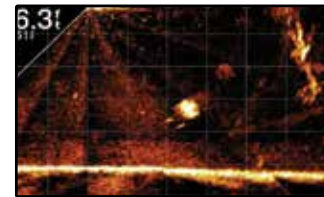
Supports all Panoptix™ sonar, including the Panoptix LiveScope™ System and Panoptix LiveScope™ LVS32 (sold separately).

ADDITIONAL SERIES FEATURES

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

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

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ECHOMAP® ULTRA SERIES

010-02112-00 | 106
010-02112-01 | 106sv + transducer

010-02114-00 | 126
010-02529-01 | 126sv + 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 sonar[1]. Supports our full line of Panoptix™ sonars. Preloaded BlueChart® g3 coastal charts and LakeVü g3 inland maps each featuring Navionics® data and Auto Guidance technology[2].

| KEYED-ASSIST TOUCHSCREEN DISPLAY | BUILT-IN CHIRP TRADITIONAL AND ULTRA HIGH-DEFINITION, CLEARVÜ AND SIDEVÜ SCANNING SONAR[1] | PRELOADED BLUECHART G3 CHARTS AND LAKEVÜ G3 MAPS FEATURING NAVIONICS DATA AND AUTO GUIDANCE[2] | SHARE SONAR, WAYPOINTS, MAPS AND ROUTES[3] |

ULTRA HIGH-DEFINITION SONAR

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

PANOPTIX LIVESCOPE™
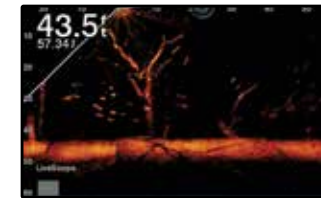
Supports all Panoptix™ sonar, including the Panoptix LiveScope™ System and Panoptix LiveScope™ LVS32 (sold separately).

LAKEVÜ G3 MAPS
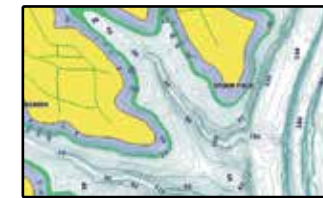
Highly detailed inland maps featuring Navionics data.
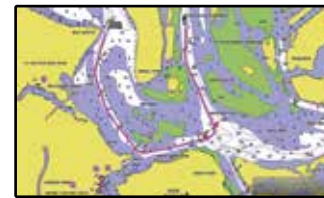
BLUECHART G3 CHARTS

Highly detailed maps and cartography 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 notifications[3], 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.

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[1]Available only in XSV models with transducer included
[2]Auto Guidance is for planning purposes only and does not replace safe navigation operations
Wi-Fi is a registered trademark of the Wi-Fi Alliance.

[1]Available with or without included transducer
[2]Auto Guidance is for planning purposes only and does not replace safe navigation operations
[3]When paired with a compatible smartphone; see Garmin.com/ble • Wi-Fi is a registered trademark of the Wi-Fi Alliance.

ECHOMAP™ UHD SERIES

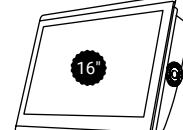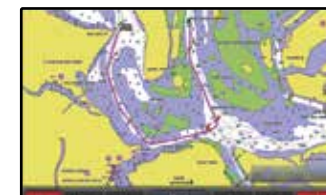# ECHOMAP® PLUS SERIES

010-02330-01 | 63cv
010-02331-01 | 64cv
010-02332-00 | 65cv

010-02334-01 | 73cv
010-02519-01 | 73sv + transducer
010-02335-01| 74cv
010-02520-01| 74sv + transducer
010-02521-00 | 75sv + transducer

010-02523-01 | 93sv + transducer
010-02524-01 | 94sv + transducer
010-02525-00 | 95sv + transducer

The 6" keyed and 7" and 9" touchscreen chartplotter/sonar combos with keyed assist[1] include or support transducers for Ultra High-Definition ClearVü and SideVü scanning sonar and Garmin CHIRP traditional sonar. Please note the 6" keyed does not support SideVü.

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 touchscreens[1], 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 maps[2], each featuring Navionics® data and Auto Guidance technology[3].

| BUILT-IN CHIRP TRADITIONAL AND ULTRA HIGH-DEFINITION CLEARVÜ AND SIDEVÜ SCANNING SONAR[2] | SHARE SONAR, WAYPOINTS AND ROUTES WITH OTHER ECHOMAP™ DEVICES | NMEA 2000® AND NMEA 0183 NETWORK SUPPORT FOR AUTOPILOT AND ENGINE DATA | PRELOADED BLUECHART® G3 COASTAL CHARTS OR LAKEVÜ G3 INLAND MAPS WITH NAVIONICS® DATA AND AUTO GUIDANCE[3] |

| SUNLIGHT-READABLE DISPLAY | BUILT-IN CHIRP TRADITIONAL AND CLEARVÜ SCANNING SONAR | PRELOADED WITH BLUECHART G3 OR LAKEVÜ G3 CARTOGRAPHY | BUILT-IN QUICKDRAW CONTOURS |
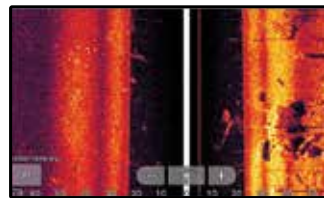
ULTRA HIGH-DEFINITION SONAR

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

PANOPTIX LIVESCOPE™

Supports all Panoptix™ sonar, including Panoptix LiveScope™ System (7" and 9" models only).

LAKEVÜ G3 OR BLUECHART G3
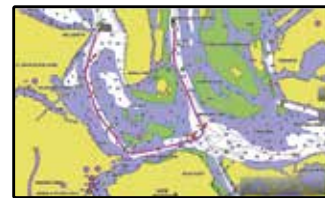
Highly detailed inland maps or coastal charts featuring Navionics data and Auto Guidance tehcnology.

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).

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 OR BLUECHART G3

Highly detailed inland maps featuring Navionics data.

BLUECHART G3 CHARTS

Highly detailed coastal charts featuring Navionics data.

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 notifications[4], 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

THE LINEUP

	43cv	44cv	45cv
	010-01885-05	010-01886-05	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	•	•	•

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 available[1]. 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
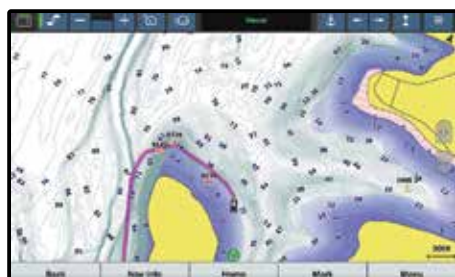
Simple integration with your Garmin chartplotter via a wireless connection makes using the built-in autopilot easy. Create routes to your favorite waypoint, and follow tracks while you fish.

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, transflective 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.

RADARS

GMR FANTOM™ 254/256 SERIES

With 250 watts of solid-state output, the new GMR Fantom 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.
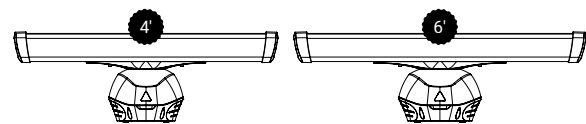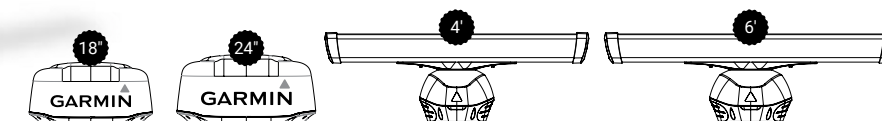
GMR Fantom radars feature MotionScope™ technology, which uses the Doppler effect to detect and highlight moving targets to help you avoid potential collisions, find flocks of birds and track weather. These radars fully integrate with select Garmin chartplotters.

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.
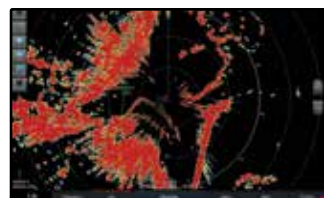
AUTOMATIC MARPA ACQUISITION
Enables automatic triggering and tracking of up to 30 MARPA traffic targets with no user prompting required.
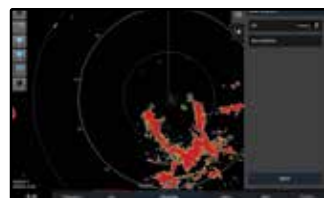
SCAN-TO-SCAN AVERAGING
This technology aids in the reduction of sea clutter and interference, so you have a clear view of what's out there.
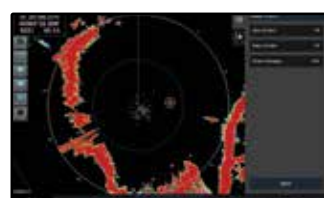
AUTO BIRD GAIN
Where there are birds on the water's surface, there are often fish below it. Auto Bird Gain helps you locate flocks of birds at the water's surface.
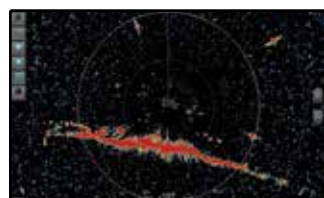
PULSE COMPRESSION
This feature provides high-resolution imaging while maximizing energy to enhance target detection and identification.
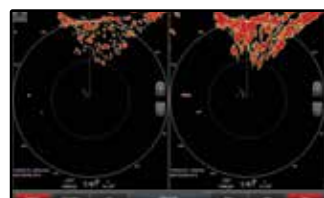
ECHO TRAILS
The radar's True Echo Trails feature displays a historical "trail" on the screen to help you quickly identify moving targets.
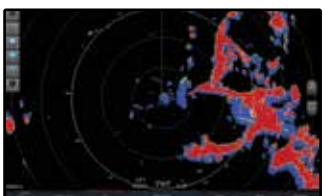
FEATURED — GMR FANTOM™ 24X

| 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
Echo Trails leave a historical "trail" on the screen to help you quickly identify moving targets.
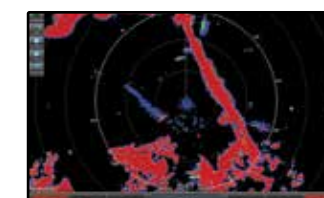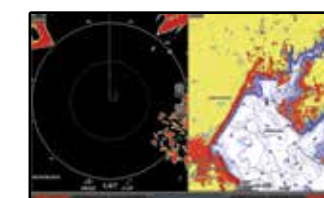
DUAL RANGE WITH OVERLAY
Dual range overlays show close and long-range, split-screen screen images at the same time.

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 Fantom 18X	GMR Fantom 24X	GMR Fantom 54	GMR Fantom 56	GMR Fantom 124	GMR Fantom 126	GMR Fantom 254	GMR Fantom 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

[1] Requires heading sensor; sold separately

GMR™ XHD2 RADARS

GMR® XHD DOME RADARS
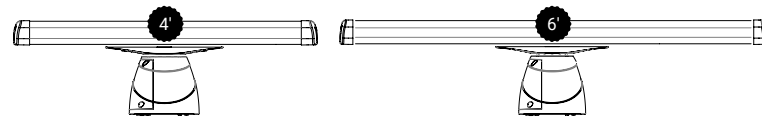
GMR xHD2 open-array radars are designed for serious seafarers of larger yachts and sport fishing boats. Designed for easy installation and use, there are no complex user settings to fuss with. Just install it and start using. GMR xHD2 radars provide reliable, optimum performance in all conditions.
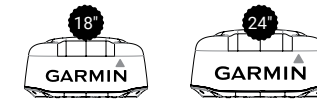
Our 4 kW high-definition GMR xhd dome radars pair ease of use with advanced open-array features. Dual-range operation allows fully independent split-screen display of far and close radar views. Their intuitive operation makes modes and settings simple to understand so you can enjoy great performance 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 |

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 |
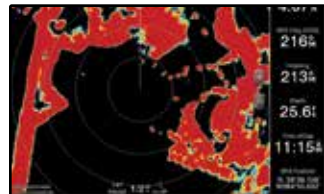
PULSE EXPANSION

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

ECHO TRAILS
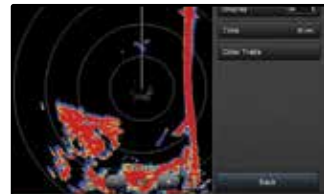
Echo Trails leave a historical "trail" on the screen to help you quickly identify moving targets.

DUAL RANGE WITH OVERLAY
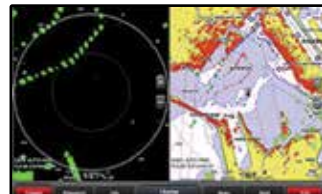
Dual-range overlays show close and long-range, split-screen images at the same time.
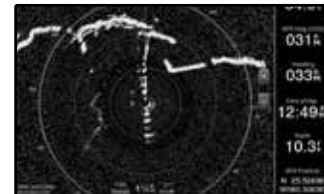
AUTO BIRD GAIN

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

THE LINEUP

	GMR 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

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

[1]Requires heading sensor; sold separately

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/Sideü		•		•
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)

GHP™ REACTOR 40 AUTOPILOT SERIES

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 an Auto Guidance[1] path with compatible chartplotters and BlueChart® g3 and g3 Vision® charts. Flexible mounting options[2] and quick, easy 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 Attitude Heading Reference System (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 BlueChart® g3 and g3 Vision® charts
- Supports third-party heading sensors or GPS compasses via the NMEA 2000® network

ACCESSORIES FOR REACTOR AUTOPILOTS

GHC™ 20 CONTROL UNIT
Part no: 010-01141-00

Control your autopilot with up to three GHC 20 autopilot helm controller units. Compatible with all Garmin autopilots, for both motor- and sailboats.

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 steerings systems.

GHP REACTOR 40 STEER-BY-WIRE STANDARD COREPACK
Part no: 010-00705-86

GHP REACTOR 40 STEER-BY-WIRE YAMAHA® HELM MASTER™ COREPACK
Part no: 010-00705-87

GHP REACTOR 40 STEER-BY-WIRE VOLVO PENTA® COREPACK
Part no: 010-00705-89

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™ 20 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: 010-00705-19
GHP Reactor 40 hydraulic with SmartPump corepack Part no: 010-00705-69

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™ 20 control units

GHP™ REACTOR 40 MECHANICAL AUTOPILOT

GHP REACTOR 40 MECHANICAL / RETROFIT / SOLENOID COREPACK Part no: 010-00705-49

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™ 20 control units
- When used with a Garmin chartplotter with optional BlueChart® g3 and 3g Vision® charts, the Reactor autopilot can automatically follow an Auto Guidance path
- Add optional Autopilot remote for control anywhere on your boat

PUMPS

1.2-LITER PUMP KIT
Part no: 010-00705-64

2-LITER PUMP KIT
Part no: 010-00705-63

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 winds[1]. 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 20.

GHP COMPACT REACTOR 40 HYDRAULIC COREPACK WITH GHC 20 AND SHADOW DRIVE™
Part no: 010-00705-08

GHP COMPACT REACTOR 40 HYDRAULIC COREPACK WITH GHC 20
Part no: 010-00705-07

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 boats less than 30 feet long

- Available in 3 pack configurations:
  GHP Compact Reactor Hydraulic Autopilot with GHC 20 and Shadow Drive™
  GHP Compact Reactor Hydraulic Autopilot with GHC 20 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 20 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™ 20 DISPLAY Part no: 010-00705-94
REACTOR™ 40 KICKER AUTOPILOT WITHOUT GHC™ 20 DISPLAY Part no: 010-00705-94

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™ 20 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™ 20 display, compatible Garmin chartplotters or NMEA 2000® network-compatible GPS system

VHF 315 MARINE RADIO
Part no: 010-02047-00

The 25-watt VHF 315 marine radio with Class D DSC is a modular communication solution. It includes a GHS™ 11 handset and new active speaker to use as an intercom between up to 3 stations. It's easy to use and integrates seamlessly into the Garmin onboard system.

VHF 215 AIS MARINE RADIO
Part no: 010-01654-00,

Displays automatic identification system (AIS) on the chartplotter and during an emergency situation, the 25 W transmit power gives all fishermen, sailors and cruisers confidence at their fingertips. Available with built-in GPS.

VHF 215 MARINE RADIO
Part no: 010-02097-00

During an emergency situation, the 25 W transmit power gives all fishermen, sailors and cruisers confidence at their fingertips. Available with built-in GPS.

AIS™ 800
Part no: 010-02087-00

Easy to use, the AIS 800 black box transceiver with built-in GPS provides reliable communication and transmits your vessel information to other AIS receivers in your area while receiving AIS target data. With 5 watts of transmit power with Class B/SO, it provides faster positioning reporting than ever before[1].

Garmin AIS 800 has an internal VHF antenna splitter, which allows the VHF and AIS to share a single antenna. It includes a built-in GPS (with connector for optional external antenna) and integrates seamlessly into the Garmin onboard system. The transceiver features NMEA 2000/0183® connectivity for easy integration with compatible chartplotters and multifunction displays.

VHF 115 MARINE RADIO
Part no: 010-02096-00

Communication is critical on the water. With the VHF 150 radio, you can stay in contact with the shore and other boats in your area. So, no matter where you are or where you're headed, you'll maintain communication. Available with built-in GPS.

GHS™ 11 WIRED VHF HANDSET
Part no: 010-01759-00

This handset allows full function of your compatible VHF radio from a remote location. Simple design includes soft keys, a 2" diagonal dot matrix display and coiled cable that stretches from about 1' to nearly 5'. Rotary/push knob for volume, squelch and channel selection and a dedicated button for access to channels 16/9.

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.

THE LINEUP

	VHF 115	VHF 215	VHF 215 AIS	VHF 315
	010-02096-00	010-02097-00	010-02098-00	010-02047-00
Transmit Power	25 W	25 W	25 W	25 W
Built-in GPS	●	●	●	●[1]
NMEA 2000®	●	●	●	●
NMEA 0183	●	●	●	●
Digital Selective Calling	Class D	Class D	Class D	Class D
All USA Frequency Band	●	●	●	●
Canadian Frequency Band	●	●	●	●
International Frequency Band	●	●	●	●
10 NOAA Weather Channels	●	●	●	●
Hailer Horn		●	●	●

[1]VHF 315 has internal GPS but requires external antenna

[1]When cruising above 14 knots

SATELLITE TV DOME POWERED BY KVH®
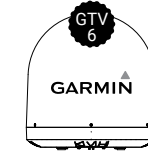
GTV5

GTV6

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.

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.

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.

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.

COMPATIBLE SENSORS AND INSTRUMENTS FOR GMI 20

Intelligent sensors

GMI™ 20

gWind™

GFS™ 10

GND™ 10

GPS 24xd

NMEA analog adapters

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, 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 fields[1].

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

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

[1]Requires compatible wind transducer (sold separately)
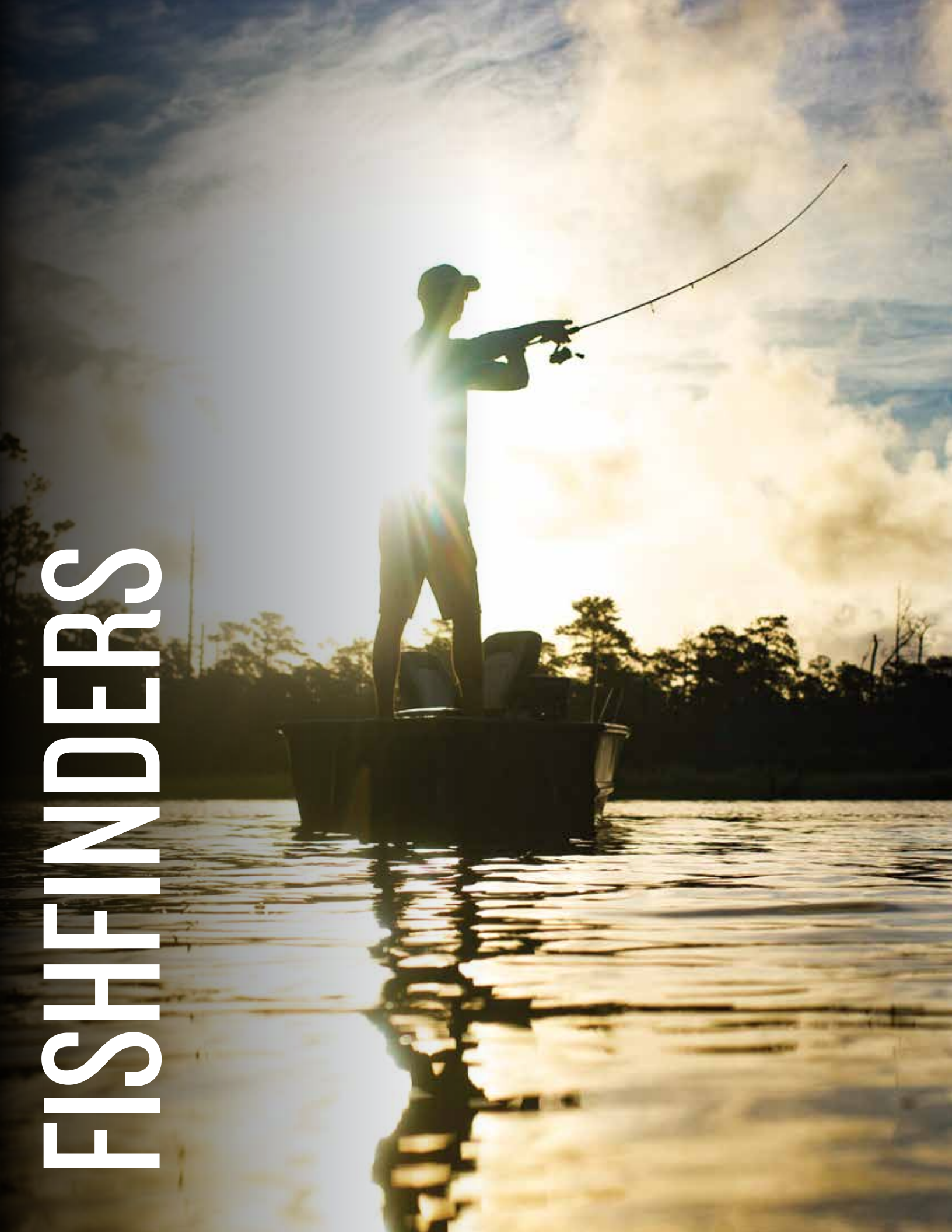
STRIKER™ VIVID SERIES

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 capabilities[1] 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
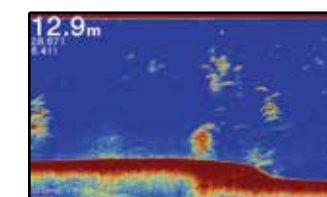
Crisp, clear CHIRP traditional sonar.

CLEARVÜ SCANNING SONAR
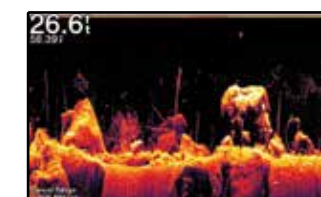
See images of what's under your boat.

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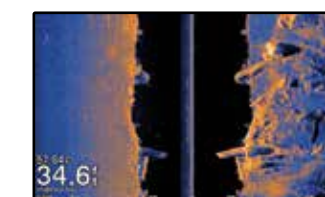
Get incredibly clear images of what's off to either side of your boat.

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	•	•	•	•	•	•	•

[1]Additional equipment (sold separately) and device pairing required • [2]Available 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 ANROID™ APPS[1] | UP TO 200' SONAR RANGE | 10+ HOURS BATTERY LIFE[2]

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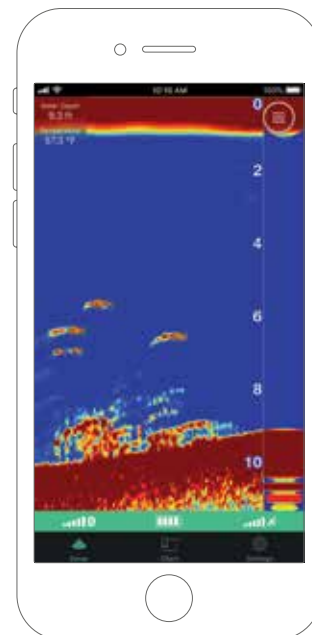
Turn on fish icons to view graphic images of fish targets and their depth readings so you'll know exactly where to drop your line.

[1]When paired with a compatible smartphone; see Garmin.com/ble • [2]Battery 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.
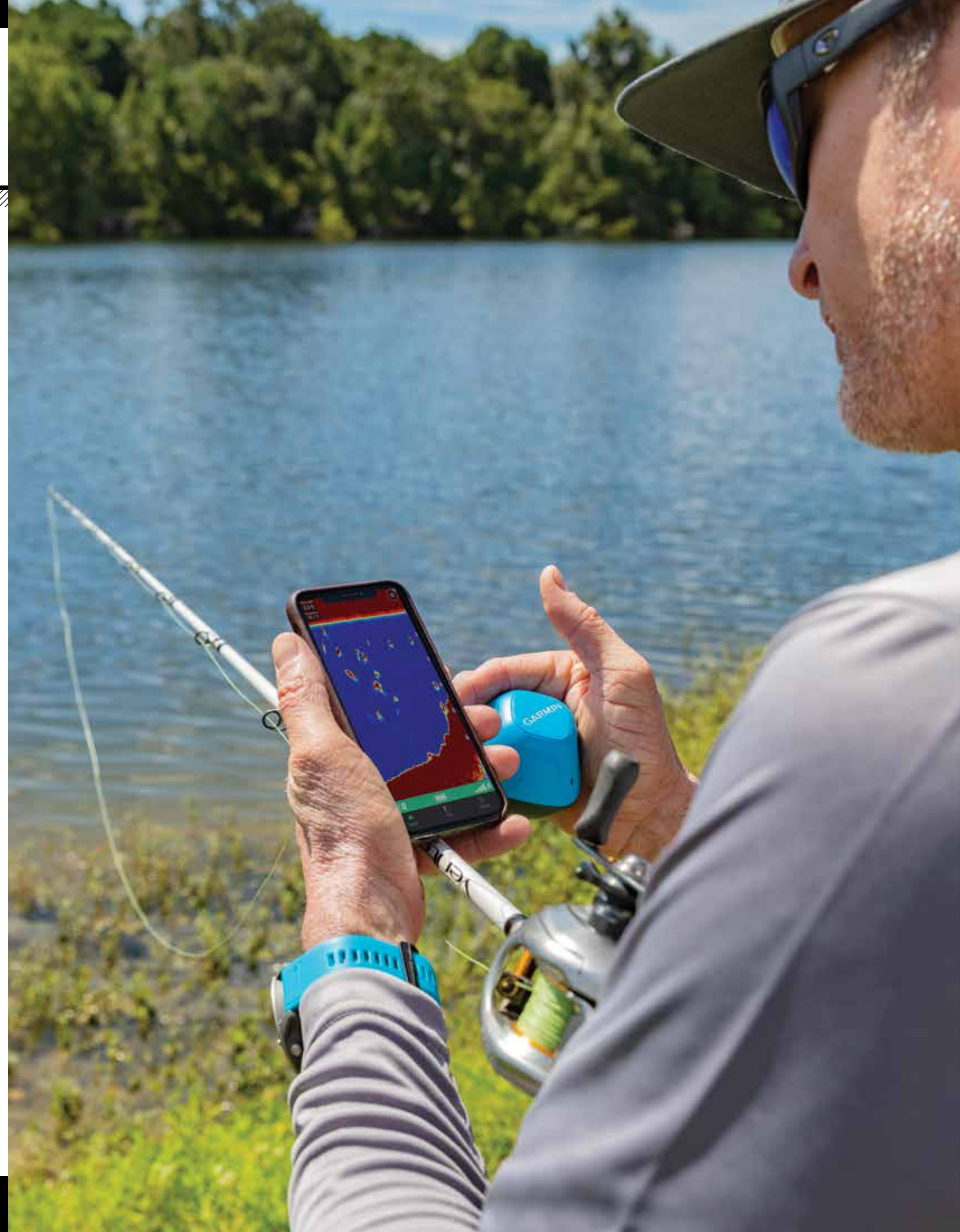
CAMERAS AND
CAMERA SYSTEMS

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 14

GC 200

GC 100

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	GC 200 Marine IP Camera	GC 100 Marine Camera
	010-02667-00	010-02164-00	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

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

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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 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 |

SEEMLESS 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® 6 SERIES

The quatix 6 series of multisport GPS smartwatches is specifically designed to help make the most of your time on the water. Each model connects with compatible Garmin chartplotters and other devices[1] to offer autopilot control, data streaming, sail racing assistance, Fusion-Link™ entertainment control and much more. The quatix 6X Solar edition adds a solar-charging lens* that uses the sun's energy to extend battery life. So you can spend more time enjoying full control of your boat from your wrist.

| COMPREHENSIVE BOAT CONNECTIVITY | COMPATIBLE WITH GARMIN DEVICES[1] | SAILASSIST CAPATILITIES | MULTI-GNSS NAVIGATION ON WATER AND LAND | SOLAR CHARGING* ON QUATIX 6X SOLAR WATCH |

AUTOPILOT CONTROL[2]

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

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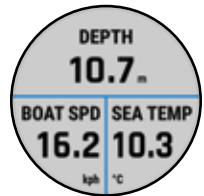
Wirelessly connect with compatible devices to stream data — water depth, engine RPM, wind, custom inputs and more — directly onto your wrist.

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 6	quatix 6 Titanium	quatix 6X Solar
	010-02158-90	010-01688-41	010-02157-30
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
Connectivity	Bluetooth®, ANT+®, Wi-Fi®	Bluetooth®, ANT+®, Wi-Fi®	Bluetooth®, ANT+®, Wi-Fi®
Battery Life	Smartwatch Mode: up to 2 weeks GPS/HR mode: up to 24 hours UltraTrac™ mode: up to 60 hours without wrist heart rate	Up to 14 days in smartwatch mode, 36 hours in GPS mode and up to 48 days in battery saver watch mode.	Up to 21 days (plus 3 days*) in smartwatch mode, 60 hours (plus 6 hours**) in GPS mode and up to 80 days (plus 40 days*) in battery saver watch mode.
Water Rating	10 ATM	10 ATM	10 ATM

[1]Compatible marine products: GPSMAP® 8400/8600 series MFDs, GPSMAP® 7400/7600, 703/903/1203, 1002/1202, and 702/902 series chartplotters, andX2 Plus series GHC™ 20, GNX™ Wind, GNT™ 10

*Assumes 3 hours a day in 50,000 lux conditions

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. From its domed sapphire lens and always-on display to its revolutionary regatta timer that pinpoints the start like never before, this is the watch for those who live life at the helm.

| ENDURING MATERIALS | AUTOPILOT CONTROL | COMPATIBLE WITH GARMIN DEVICES[1] | REGATTA TIMER | TACK ASSIST |

MARQ® CAPTAIN: AMERICAN MAGIC EDITION

This special edition MARQ Captain watch shows your allegiance to the greatest sailing team on water. It was created with the American Magic team in preparation for the 36th America's Cup. It blends advanced nautical and smart features with advanced athletic training tools for race day. Sail to victory with a design made for the challenge.

| COMMEMORATIVE NAUTICAL DESIGN | AUTOPILOT CONTROL | COMPATIBLE WITH GARMIN DEVICES[1] | REGATTA TIMER | TACK ASSIST |

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**

DAME CATEGORY WINNER 2019

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 technology[1] to provide 100% global coverage for two-way messaging, interactive SOS and off-grid peace of mind.

INREACH® MINI MARINE BUNDLE

The inReach Mini Marine bundle puts the rugged, compact inReach Mini satellite communicator on your boat for interactive SOS, two-way messaging and basic navigation via the global Iridium network[1]. 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 50 hours of battery life in 10-minute tracking mode.

THE LINEUP

	GPSMAP 73 010-01504-00	GPSMAP 79s 010-2635-00	GPSMAP 79sc 010-2635-02	GPSMAP 86s 010-02236-00	GPSMAP 86sc 010-00864-02	GPSMAP 86i 010-02236-00	GPSMAP 86sci 010-02235-00	GPSMAP 276CX 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		•	•	•	•	•	•	•

[1]Satellite subscription required • Wi-Fi is a registered trademark of the Wi-Fi Alliance.
NOTICE: 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.

[1]Active 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.

ANTENNAS AND SENSORS

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 forecasts[1] delivered straight to your Garmin chartplotter. Enjoy high-quality entertainment with more than 150 channels of SiriusXM satellite radio[1]. 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.

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.

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.

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.

[1]Weather, audio and fish mapping features each require a paid subscription with SiriusXM. Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc.

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ACCESSORIES

GHC™ 20 CONTROL UNIT
Part no: 010-01141-00

Control your autopilot with up to three GHC 20 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.

MFD Chartplotters

	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	Built-in BlueChart G3 and LakeVu g3	Worldwide Basemap	Worldwide Basemap
BlueChart® g3 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
Panoptix™ 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
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	BlueChart g3 & LakeVu g3	BlueChart g3 & LakeVu g3	BlueChart g3 & LakeVu g3	BlueChart g3 & LakeVu g3	BlueChart g3 & LakeVu g3	BlueChart g3 & LakeVu g3
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
Panoptix™ 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	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB	Build-in wireless connectivity, NMEA 2000: 1 port, J1939, NMEA0183: 1 port, Marine Network: 2 ports, Video in: 1 BNC, 1 HDMI, Video out: 1 HDMI, USB

Wi-Fi is a registered trademark of the Wi-Fi Alliance.

Wi-Fi is a registered trademark of the Wi-Fi Alliance.

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 UHD 94sv/93sv and ECHOMAP UHD 74sv/73sv & 74cv/73cv and ECHOMAP UHD 64cv/63cv	ECHOMAP Plus 64cv/63cv and 44cv/43cv
Display Size (diagonal)	12" (1242xsv/1242) 10" (1042xsv/1042)	12" (1243xsv/1243) 9" (943xsv/943) 7" (743xsv/743)	10" (106xs/106) 12" (126xs/126)	9", 7" and 6"	6.2" (64cv/63cv) 4.3" (44cv/43cv)
Display Type and Resolution (pixels)	WXGA - 1280 x 800 (1242xsv/1242) WSVGA - 1024 x 600 (1042xsv/1042)	WXGA - 1280x800 (1243xsv/1243) WXGA - 1280x720 (943xsv/943) WSVGA - 1014x600 (743xsv/743)	1280 x800	WVGA - 800 x 480	WVGA - 800 x 480 (64cv/63cv) QVGA - 272 x 480 (44cv/43cv)
Touch- or Keyed Panel	Keyed	Multitouch	Keyed Assist Multitouch	Keyed Assist Multitouch	Keyed
GPS Receiver	10 Hz GPS/GLONASS, internal	10 Hz GPS/GLONASS, internal	10 Hz	5 Hz GPS/GLONASS, internal	5 Hz GPS/GLONASS, 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	Yes	Yes (64cv/63cv)
NMEA 0183® Compatible	Yes	Yes	Yes	Yes	Yes
Garmin Marine Network Compatible	Yes	Yes	Yes, with other 7" and 9" ECHOMAP UHD, ECHOMAP Plus and ECHOMAP Ultra models only	Yes, with other 7" and 9" ECHOMAP UHD, ECHOMAP Plus and ECHOMAP Ultra models only	No
OneHelm	No	Yes	No	No	No
Preloaded Map	BlueChart® g3 & LakeVü g3	BlueChart® g3 & LakeVü g3	BlueChart® g3 & LakeVü g3	BlueChart® g3 & LakeVü g3	BlueChart® g2 (64cv, 44cv) LakeVü HD (63cv, 43cv)
BlueChart® g3 Vision® Compatible	Yes	Yes	Yes	Yes	Yes
Auto Guidance	Yes	Yes	Yes	When paired with a Vision or Ultra card	When paired with a Vision or Ultra card
ActiveCaptain® Support	Yes	Yes	Yes	Yes	No
SailAssist	Yes	Yes	Yes	Yes	Yes (64cv/63cv only)
Wi-Fi® Wireless Connectivity	Yes	Yes	Yes	Yes	Yes (64cv/63cv) No (44cv/43cv)
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	Yes	Yes (64cv/63cv) No (44cv/43cv)
Video Input/Output	1 BNC	1 BNC Video Output: 1 HDMI 1243xsv/1243	No	No	No
AIS and DSC Support	Yes	Yes	Yes	Yes	No (64cv/63cv)
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	Yes	No
Dual Channel CHIRP	No	No	No	No	No
Ultra High-Definition scanning sonar	No	Yes	Yes	Yes	No
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, with other 7" and 9" ECHOMAP UHD and ECHOMAP Ultra models only	No
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)
Panoptix™ Support	Yes	Yes	Yes	Yes	No
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	Bail or Flush	Bail, Flush or Flat	Bail or Flush	Bail or Flush	Bail 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	1.5 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 port, Marine Network: 2 ports (1243xsv/1243), 1 port (943xsv/943 and 743xsv/743), Video in:1 BNC J1939 (1243xsv/1243)	NMEA 2000: 1 port, NMEA 0183: 1 in and 1 out Marine Network: 2 ports	NMEA 2000: 1 port, NMEA 0183: 1 in and 1 out Marine Network: 1 port	NMEA 2000: 1 port (64cv/63cv), NMEA 0183: 1 in and 1 out

GPSMAP 8624
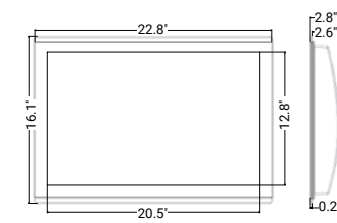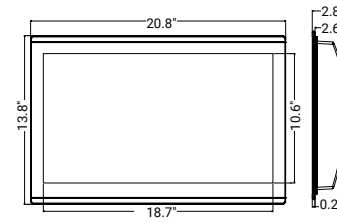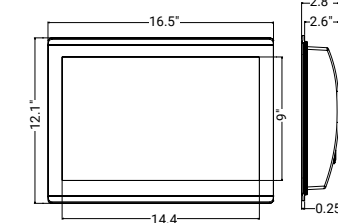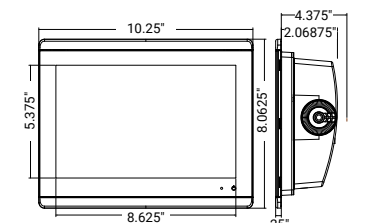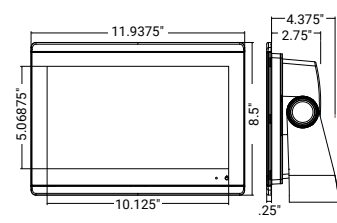
22.8" · 2.8"/2.6" · 16.1" · 12.8" · 20.5" · 0.25"

GPSMAP 8622
20.8" · 2.8"/2.6" · 13.8" · 10.6" · 18.7" · 0.25"

GPSMAP 8617
16.5" · 2.8"/2.6" · 12.1" · 9" · 14.4" · 0.25"

GPSMAP 8610/8610XSV
4.375" · 2.06875" · 10.25" · 5.375" · 8.0625" · 8.625" · .25"

GPSMAP 8612/8612XSV
11.9375" · 4.375" · 2.75" · 5.06875" · 8.5" · 10.125" · .25"

GPSMAP 8616/8616XSV
15.125" · 4.375" · 2.75" · 7.6875" · 10.3125" · 13.5625" · .25"

GPSMAP 1242 SERIES
14.1" · 2.6" · 10.3125" · 8.9"
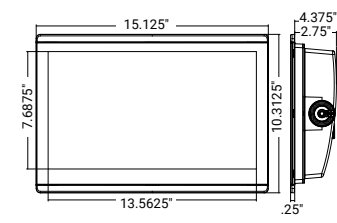
GPSMAP 1042 SERIES
12.5" · 2.6" · 8.9" · 7.3"
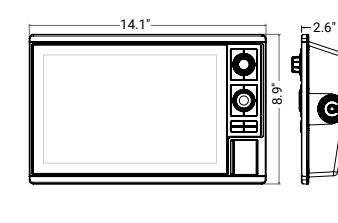
GPSMAP 743/743XSV
7.6" · 2.9" · 2.6" · 5.5" · 3.4" · 6.1"
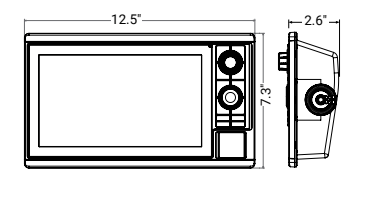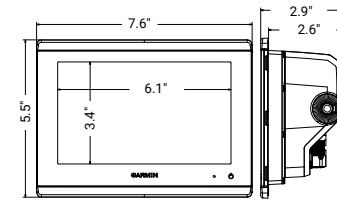
GPSMAP 943/943XSV
9.2" · 3" · 2.7" · 4.4" · 6.4" · 7.8"
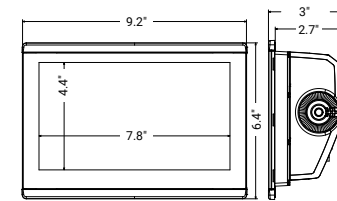
GPSMAP 1243/1243XSV
12.1" · 3.3" · 2.9" · 8.9" · 6.4" · 10.3"

ECHOMAP ULTRA 126/126XS
13.4375" · 10.3125" · 3.0875" · 6.4375" · 9" · 9.5"
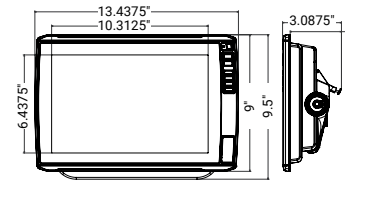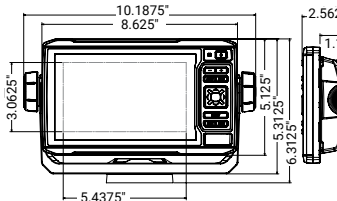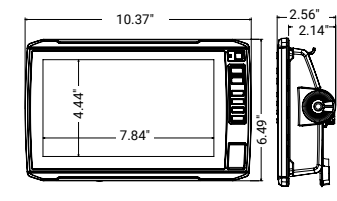
ECHOMAP ULTRA 106/106XS
10.1875" · 8.625" · 2.5625" · 1.1875" · 3.0625" · 5.125" · 6.3125" · 5.4375"

ECHOMAP UHD 94SV/93SV
10.37" · 2.56" · 2.14" · 4.44" · 6.49" · 7.84"

ECHOMAP UHD 74SV/73SV & 74CV/73CV
8.75" · 2.49" · 1.97" · 3.42" · 5.55" · 6.11"

ECHOMAP UHD 64CV/63CV
8.60" · 10.21" · 2.57" · 1.78" · 3.04" · 5.12" · 5.94" · 6.33" · 5.41"

ECHOMAP PLUS 44CV/43CV
4.03" · 2.16" · 3.14" · 3.79" · 8.03"
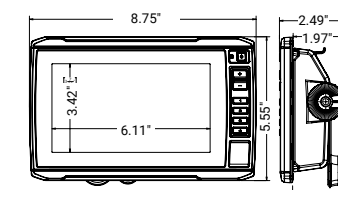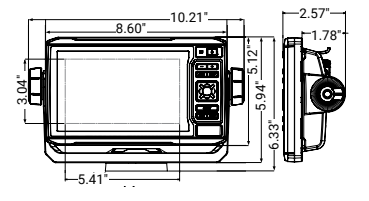
GARMIN GRID 20
.375" · 5.5625" · 2.1875" · 1.0625" · 2.6875"
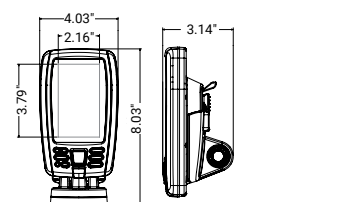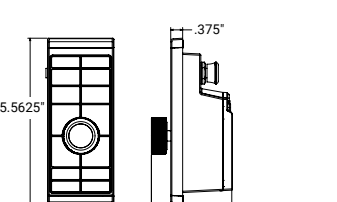
Instruments

	GMI 20 and GHC 20 Autopilot Control	GNX Wind GNX 20 and GNX 21	GNX 120	GNX 130
Bonded Display	Yes	Yes	Yes	Yes
Display Type	LCD	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 x 115 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 (8.71 oz)	230 g	380 g	820 g
Digit Height	1.93" / 49mm	1.43" / 35mm (GNX20/21)	2.0" / 51mm	2.8" / 72mm
LCD Size (diagonal)	4.0" / 102mm	4.0" / 102mm	6.3" / 159mm	9.3" / 236mm
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)
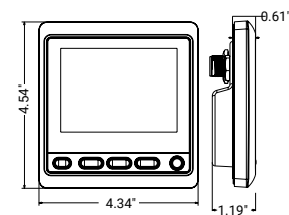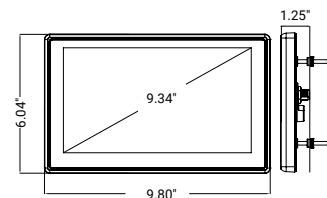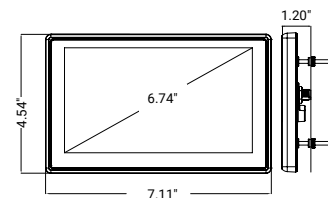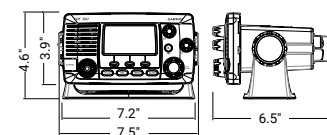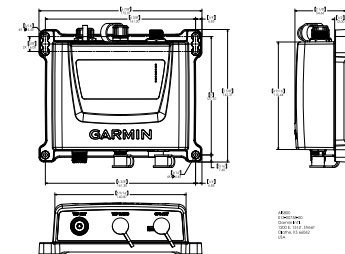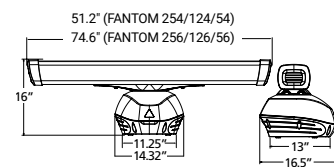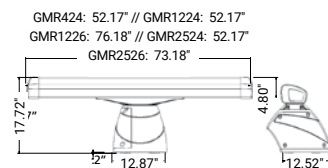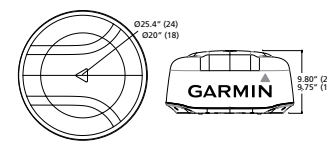
AIS and VHF

	AIS 800	VHF 115	VHF 215	VHF 215 AIS	VHF 315
Display Size, Diagonal		2.5"	3.2"	3.2"	2" (GHS 11)
Adjustable Backlighting		Yes	Yes	Yes	Yes (GHS 11)
Class D DSC with Distress and Position Polling		Yes	Yes	Yes	Yes
Transmitter Power Output	5 W / 2 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 (GHS 11)
ATIS Compatible		Yes	Yes	Yes	Yes
NMEA 2000® Interface	Yes	Yes	Yes	Yes	Yes
NMEA 0183® Interface	Yes	Yes	Yes	Yes	Yes
Supports GHS 11			Yes	Yes	Yes, up to 3, 1 included
Intercom (requires GHS 11)			Yes	Yes	Yes
Hailer/Foghorn Compatible			Yes	Yes	Yes
Internal GPS Receiver	Yes	Yes	Yes	Yes	Yes
Internal GPS Antenna	Yes		Yes	Yes	Yes
External GPS Options	Antenna	Antenna NMEA 2000 NMEA 0183	Antenna NMEA 2000 NMEA 0183	Antenna NMEA 2000 NMEA 0183	Antenna NMEA 2000 NMEA 0183
AIS Receiver	Yes			Yes	
AIS Transponder	Class B/SO				
Integral VHF Antenna Splitter	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 (Fantom 124)	23,6 kg (Fantom 126) 21,3 (Fantom 124)	23,6 kg (Fantom 56) 21,3 (Fantom 54)	29 kg (GMR 2526) 28,1 (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

GHC/GMI 20 AND GNX 20/21/WIND
0.61" · 4.54" · 4.34" · 1.19"

GNX 130
1.25" · 9.34" · 6.04" · 9.80"

GNX 120
1.20" · 4.54" · 6.74" · 7.11"

VHF SERIES
4.6" · 3.9" · 7.2" · 7.5" · 6.5"

AIS 800

GMR FANTOM SERIES
51.2" (FANTOM 254/124/54)
74.6" (FANTOM 256/126/56)
16" · 11.25" · 14.32" · 13" · 16.5"

GMR XHD2 SERIES
GMR424: 52.17" // GMR1224: 52.17"
GMR1226: 76.18" // GMR2524: 52.17"
GMR2526: 73.18"
17.72" · 4.80" · 2" · 12.87" · 12.52"

GMR DOME SERIES
Ø25.4" (24) Ø20" (18) · 9.80" (24) 9.75" (18)

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	Yes	Yes
CHIRP SideVü	Yes	N/A	N/A	N/A
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 Transducer[1]	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
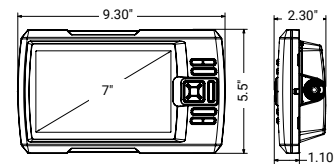
STRIKER VIVID 7CV/SV
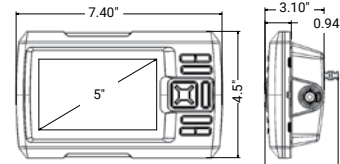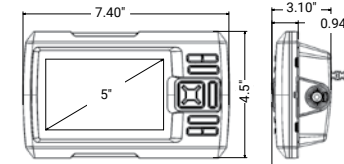
STRIKER VIVID 5CV

STRIKER VIVID 4CV
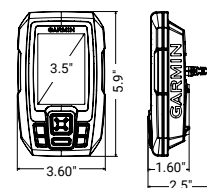
GWIND/GWIND WIRELESS 2
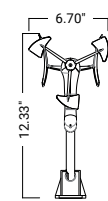
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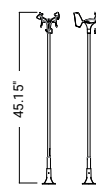
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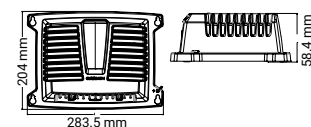
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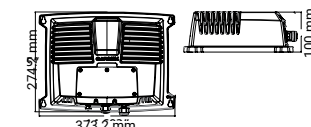
GCV 10 AND GSD 25
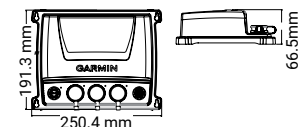
gWind

	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
Ultrascroll	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 Depth[1]	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 1080P[2]	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)	12 V (10-30 VDC)
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

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

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

Handhelds and Wearables

	quatix 6/quatix 6X Solar	GPSMAP 276Cx	GPS 73	GPSMAP 79s/79sc	GPSMAP 86s/86sc/86i/86sci 86	inReach Mini Marine Bundle
Number of Waypoints	1,000	10,000	1,000	2,000	10,000	500
Internal Map Memory	32 MB	8.0 GB	No	1.7 GB	16 GB	No
Number of Routes	30	250	50	200	250	20
Basemap, Preprogrammed Map	Yes	Worldwide basemap	No	Worldwide basemap	BlueChart g3 (86sc, 86sci)	No
Additional Map Options	BlueChart g3, LakeVü g3	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	6: 28 days (expedition GPS activity); up to 36 hours (GPS mode); up to 14 days (smartwatch mode) 6X Solar: 46 days plus 10 days[1] (expedition GPS activity); up to 60 hours	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	6: 1.3" (33.02 mm) 6X Solar: 1.4" (35.56 mm)	5" diagonal	2.6" diagonal	2.6" diagonal	3" diagonal	1.3" diagonal
Display Type	Transflective MIP color	TFT (Transflective)	TFT (Transflective)	TFT (Transflective)	TFT (Transflective)	Sunlight-readable, monochrome, transflective memory-in-pixel (MIP)
Area Calculation	Yes	Yes	Yes	Yes	Yes	No
Display Resolution Pixels (HxW)	6: 260 x 260 6X Solar: 280 x 280	800 x 480	160 x 128	240 x 160	240 x 400	128 x 128
Standard GPS Antenna	EXO™ antenna	Internal	Internal	Integral quad helix	Integral quad helix	Integral quad helix
BLUETOOTH®	BLUETOOTH® ANT+®, Wi-Fi®	BLUETOOTH / Wi-Fi®	No	No	No	Yes
TracBack® Function	Yes	Yes	Yes	Yes	Yes	No
Number of Track Points	10,000	20,000	10,000	10,000	20,000	10,000
Weight	6: 83 g 6X Solar: 82 g	450 g (litium), 415 g (AA)	232,4 g	218 g	272 g	100 g
Alarm	Yes	Yes	Yes	Yes	Yes	No
Waterproof According to Standard	10 ATM	IPX7	IPX7	IPX7	IPX7	IPX7
Physical Size in mm (HxWxD)	6: 47 x 47 x 14.7 6X Solar: 51 x 51 x 14.9	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	No	Yes	Yes	Yes	Yes	No
Storage of Cartography	No	microSD memory card	No	microSD memory card	microSD memory card	No
Backlit Display	Yes	Yes	Yes	Yes	Yes	Yes
Input for External Antenna	No	Yes	No	Yes	Yes	No
WAAS/EGNOS Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Integral Electronic Compass	Yes	Yes	No	Yes (78s)	Yes	No
Integral Barometric Altimeter	Yes	Yes	No	Yes (78s)	Yes	No
Automatic Route Calculation	No	Yes, with City Navigator	No	Yes, with City Navigator	Yes (with optional mapping for detailed roads)	No
Calendar for Hunting/Fishing Times	No	Yes	Yes	Yes	Yes	No
Solar and Lunar Calendar	Yes	Yes	Yes	Yes	Yes	No
Area Waypoints	Yes	Yes	Yes	Yes	Yes	No
Tidal Information	Yes	Yes	No	Yes	Yes	No
Power Supply (external)	No	8-36 V	8-36 V	8-36 V	8-36 V	Included bare wire cable: 10-30 B Unit: 5 V Micro USB
Waypoint Icons	No	Yes	Yes	Yes	Yes	No
NMEA Compatible	No	Yes (NMEA 0183)	Yes (NMEA 0183)	Yes (NMEA 0183)	Yes (NMEA 0183)	No
Camera	No	No	No	No	No	No
Picture Viewer	No	No	No	Yes	Yes	No
Floats	No	Yes	Yes	Yes	Yes	Yes

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 20	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 20	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 20	
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 Hydrauilic 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 20	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 20	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 20	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 20	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 20	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 20	
Steer by Wire	ZF Pod Drive	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 20	
Steer by Wire	YANMAR	Reactor 40 Steer-by-wire Standard Core Pack		Reactor 40 GHC 20	
Steer by Wire	Yamaha Helm Master®	Reactor 40 Steer-by-wire Core Pack for Yamaha Helm Master	Gateway Included	Reactor 40 Autopilot Gateway GHC 20	
Steer by Wire	Volvo IPS or Sterndrive	Reactor 40 Steer-by-wire Core Pack for Volvo-Penta	Gateway Included	Reactor 40 Autopilot Gateway GHC 20	
Steer by Wire	Viking® Viper™	Reactor 40 Steer-by-wire Core Pack for Viking Viper		Reactor 40 GHC 20	
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 20	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 20	010-11533-10: solenoid cable 010-11829-00: GRF 10 rudder sensor or 010-11532-00 plus third-party rudder sensor
Auxillary Gas Engine (Kicker)	<20HP auxiliary gas engines from most major manufacturers	Reactor 40 Kicker	Steering Actuator Included	CCU, ECU, Steering Actuator Throttle Actuator Wireless Remote	

GARMIN NETWORK AND MFDS

	PART NUMBER	LIST PRICE
GPSMAP 8617	010-01510-01	$7,499.99
GPSMAP 8622	010-01511-01	$9,999.99
GPSMAP 8624	010-01512-01	$11,999.99
GRID 20, Portrait	010-02011-00	$249.99
GRID 20, Landscape	010-02011-01	$249.99
Garmin Card Reader	010-01023-00	$199.99

GPSMAP COMBOS AND STAND-ALONES

GPSMAP 743, U.S. LakeVü g3 and U.S. BlueChart g3	010-02365-01	$999.99
GPSMAP 743xsv, U.S. LakeVü g3 and U.S. BlueChart g3	010-02365-03	$1,099.99
GPSMAP 743xsv, US+Canada+Bahamas g3, LakeVu g3 w/ GMR 18HD+	010-02365-51	$2,399.99
GPSMAP 943, U.S. LakeVü g3 and U.S. BlueChart g3	010-02366-01	$1,299.99
GPSMAP 943xsv, U.S. LakeVü g3 and U.S. BlueChart g3	010-02366-03	$1,399.99
GPSMAP 943xsv, US+Canada+Bahamas g3, LakeVu g3 w/ GMR 18HD+	010-02366-51	$2,699.99
GPSMAP 1243, U.S. LakeVü g3 and U.S. BlueChart g3	010-02367-01	$2,699.99
GPSMAP 1243xsv, U.S. LakeVü g3 and U.S. BlueChart g3	010-02367-03	$2,899.99
GPSMAP 1243xsv, US+Canada+Bahamas g3, LakeVu g3 w/ GMR 18HD+	010-02367-51	$4,199.99
GPSMAP 1042xsv, U.S. LakeVü g3 and U.S. BlueChart g3 - with Transducer	010-01740-21	$1,799.99
GPSMAP 1242xsv, U.S. LakeVü g3 and U.S. BlueChart g3 - with Transducer	010-01741-21	$2,499.99
GPSMAP 8610, U.S. LakeVü g3 and U.S. BlueChart g3	010-02091-01	$2,499.99
GPSMAP 8612, U.S. LakeVü g3 and U.S. BlueChart g3	010-02092-01	$3,499.99
GPSMAP 8616, U.S. LakeVü g3 and U.S. BlueChart g3	010-02093-01	$5,499.99
GPSMAP 8610xsv, U.S. LakeVü g3 and U.S. BlueChart g3	010-02091-03	$2,699.99
GPSMAP 8612xsv, U.S. LakeVü g3 and U.S. BlueChart g3	010-02092-03	$3,999.99
GPSMAP 8616xsv, U.S. LakeVü g3 and U.S. BlueChart g3	010-02093-03	$5,999.99

ECHOMAP ULTRA COMBOS

ECHOMAP Ultra 106 U.S. LakeVü g3/BlueChart g3 - without transducer	010-02112-00	$1,699.99
ECHOMAP Ultra 106sv, U.S. LakeVü g3/BlueChart g3 and CHIRP Traditional and UHD ClearVü/SideVü	010-02527-01	$2,099.99
ECHOMAP Ultra 126 U.S. LakeVü g3/BlueChart g3 - without transducer	010-02114-00	$2,499.99
ECHOMAP Ultra 126sv, U.S. LakeVü g3/BlueChart g3 and CHIRP Traditional and UHD ClearVü/SideVü	010-02529-01	$2,899.99

ECHOMAP PLUS AND ECHOMAP UHD COMBOS

ECHOMAP Plus 43cv, U.S. LakeVü g3 and CHIRP Traditional and CHIRP ClearVü Transducer	010-01885-05	$299.99
ECHOMAP Plus 44cv, U.S. BlueChart g3 and CHIRP Traditional and CHIRP ClearVü Transducer	010-01886-05	$349.99
ECHOMAP UHD 63cv, U.S. LakeVü g3 - without Transducer	010-02330-01	$499.99
ECHOMAP UHD 64cv, U.S. LakeVü g3 - without Transducer	010-02331-01	$599.99
ECHOMAP UHD 73cv, U.S. LakeVü g3 - without Transducer	010-02334-01	$649.99
ECHOMAP UHD 73sv, U.S. LakeVü g3 and Ultra High-Definition ClearVü and SideVü and CHIRP Traditional Transducer	010-02519-01	$749.99
ECHOMAP UHD 74cv, U.S. BlueChart g3 and Ultra High-Definition ClearVü and CHIRP Traditional Transducer	010-02520-01	$749.99
ECHOMAP UHD 74sv, U.S. BlueChart g3 and Ultra High-Definition ClearVü and CHIRP Traditional Transducer	010-02520-01	$849.99
ECHOMAP UHD 93sv, U.S. LakeVü g3 and Ultra High-Definition ClearVü and SideVü and CHIRP Traditional Transducer	010-02523-01	$1,099.99
ECHOMAP UHD 94sv, U.S. LakeVü g3 and Ultra High-Definition ClearVü and SideVü and CHIRP Traditional Transducer	010-02524-01	$1,199.99

FISHFINDERS

STRIKER 4 U.S. with Dual-beam Transducer	010-01550-00	$139.99
STRIKER 4 Plus U.S. with Dual-beam Transducer	010-01870-00	$159.99
STRIKER Vivid 4cv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02550-00	$179.99
STRIKER Vivid 5cv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02551-00	$299.99
STRIKER Vivid 7cv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02552-00	$399.99
STRIKER Vivid 7sv, U.S. with CHIRP Traditional and CHIRP ClearVü Transducer	010-02553-00	$499.99
STRIKER Vivid 9sv, U.S. with CHIRP Traditional, CHIRP ClearVü and CHIRP SideVü Transducer	010-02554-01	$599.99
STRIKER Cast GPS	010-02246-02	$179.99
STRIKER Cast	010-02246-00	$129.99

WEATHER SOLUTIONS

GXM 54 SiriusXM Marine Receiver (requires subscription)	010-01734-00	$799.99

SONAR COMPONENTS

Panoptix LiveScope System - Transom or Trolling Motor Mount	010-01864-00	$1,499.99
Panoptix LiveScope System - Thru-Hull Mount	010-02233-00	$1,999.99
Panoptix LiveScope Perspective Mode Mount	010-12970-00	$99.99
GSD 24 Advanced Sonar Module	010-00957-00	$699.99
GSD 25 Premium Sonar Module	010-01159-00	$899.99
GSD 26 CHIRP Professional Sonar Module	010-00958-00	$1,999.99
Ultra High-Definition Scanning Sonar System (GCV20 with Transducer)	010-02055-00	$599.99
GCV 20 Ultra High-Definition Scanning Sonar Black Box Without Transducer	010-02055-10	$399.99

RADARS

GMR 18 HD+ Marine Radar	010-01719-00	$1,299.99
GMR 18 xHD Marine Radar	010-00959-00	$1,599.99
GMR 24 xHD Marine Radar	010-00960-00	$2,399.99
GMR 424 xHD2 Kit, 4' Open Array and 4 kW Pedestal	K10-00012-08	$3,999.99
GMR 426 xHD2 Kit, 6' Open Array and 4 kW Pedestal	K10-00012-23	$4,799.99
GMR 1224 xHD2 Kit, 4' Open Array and 12 kW Pedestal	K10-00012-11	$5,799.99
GMR 2524 xHD2 Kit, 4' Open Array and 25 kW Pedestal	K10-00012-15	$8,199.99
GMR 1226 xHD2 Kit, 6' Open Array and 12 kW Pedestal	K10-00012-12	$6,599.99
GMR 2526 xHD2 Kit, 6' Open Array and 25 kW Pedestal	K10-00012-16	$8,999.99
GMR Fantom Dome 18x	010-01706-00	$1,999.99
GMR Fantom Dome 24x	010-01707-00	$2,799.99
GMR Fantom 54	K10-00012-17	$5,999.99
GMR Fantom 56	K10-00012-18	$6,499.99
GMR Fantom 124	K10-00012-08	$7,999.99
GMR Fantom 126	K10-00012-20	$8,499.99
GMR Fantom 254	K10-00012-20	$10,999.99
GMR Fantom 256	K10-00012-22	$11,499.99
GMR 1224 xHD2	K10-00012-11	$5,799.99
GMR 1226 xHD2	K10-00012-12	$6,599.99
GMR 2524 xHD2	K10-00012-15	$8,199.99
GMR 2526 xHD2	K10-00012-16	$8,999.99

AUTOPILOTS

GHC 20 Marine Autopilot Control Display	010-01141-00	$649.99
Reactor 40 Autopilot Remote	010-12833-10	$249.99
Compact Reactor 40 - Hydraulic Corepack Starter Kit	010-00705-06	$1,099.99
Compact Reactor 40 - Hydraulic Autopilot with GHC 20	010-00705-07	$1,599.99
Compact Reactor 40 - Hydraulic Autopilot with GHC 20 and Shadow Drive	010-00705-08	$1,999.99
Reactor 40 - Hydraulic Corepack	010-00705-19	$2,049.99
Reactor 40 - Hydraulic with SmartPump v2 Corepack	010-00705-79	$4,099.99
Reactor 40 - Mechanical / Retrofit / Solenoid Corepack	010-00705-49	$2,049.99
Reactor 40 - Steer-by-wire Standard Corepack	010-00705-86	$2,599.99
Reactor 40 - Steer-by-wire Corepack for Yamaha Helm Master	010-00705-87	$3,249.99
Reactor 40 - Steer-by-wire Corepack for Viper	010-00705-88	$6,796.99
Reactor 40 - Steer-by-wire Corepack for Volvo Penta	010-00705-89	$6,399.99
Reactor 40 Kicker Hydraulic Autopilot with GHC 20 Autopilot Display	010-00705-94	$2,599.99
Reactor 40 Kicker Hydraulic Autopilot without GHC 20 Autopilot Display	010-00705-95	$2,299.99
1.2-liter Pump Kit, fits Verado, 1-2 Outboards Under 400 hp Total	010-11098-00	$1,099.99
2-liter Pump Kit, Hydraulic Steering Under 10 Cubic Inches	010-11097-00	$1,099.99
1.2-liter Pump Kit	010-00705-64	$1,099.99
2-liter Pump Kit	010-00705-63	$1,099.99
Class A Drive Unit (for sailboats with up to 28,500 lb of displacement)	010-11572-00	$2,049.99
Class B Drive Unit (for sailboats with up to 79,000 lb of displacement)	010-11573-00	$3,099.00
Class B Compact Drive Unit (for sailboats with up to 48,400 lb of displacement)	010-12029-00	$1,999.99

COMMUNICATIONS

GHS 11, U.S., Black	010-01759-00	$199.99
VHF 115, North America	010-02096-00	$329.99
VHF 215, North America	010-02097-00	$449.99
VHF 215 AIS, North America	010-20298-00	$649.99
VHF 315	010-02047-00	$699.99
AIS 800	010-02087-00	$999.99

WEARABLES

quatix 6	010-02158-90	$699.99
quatix 6 Titanium	010-02158-94	$999.99
quatix 6X Solar	010-02157-30	$1,149.99
MARQ Captain	010-02006-06	$1,850.00
MARQ Captain: American Magic Edition	010-02454-00	$1,750.00

SAILING

GND 10 Black Box Bridge	010-01226-00	$199.99
gWind	010-01227-00	$599.99
gWind Wireless 2	010-01616-00	$699.99
gWind Race	010-01228-00	$1,299.99

INSTRUMENTS

GMI 20, Marine Instrument Display	010-01140-00	$549.99
GNX 20 Marine Instrument with Standard 4" LCD	010-01142-00	$449.99
GNX 21 Marine Instrument with Inverted 4" LCD	010-01142-10	$449.99
GNX 120 Marine Instrument with 7" LCD	010-01395-00	$899.99
GNX 130 Marine Instrument with 10" LCD	010-01396-00	$1,499.99
GNX Wind	010-01142-30	$499.99
GNX Keypad	010-12255-00	$179.99
GNX Wireless Wind Pack	010-01616-10	$1.599.99
GNX Wireless Sail Pack 52	010-01616-40	$1,099.99
GNX Wireless Sail Pack 43	010-01616-30	$1,099.99
GNX Wired Sail Pack 43	010-01248-60	$1,599.99
GNX Wirel Sail Pack 52	010-01248-70	$1,399.99
GMI Wired Start Pack 52	010-01248-80	$179.99

OTHER

NMEA 2000 Starter Kit	010-11442-00	$99.00
GFS 10 Fuel Sensor	010-00671-00	$199.99
GC 14 Marine Camera	010-02122-00	$399.99
GC 100 Marine Camera	010-01865-30	$299.99
GC 200 Marine IP Camera	010-02164-00	$499.99
GMS 10 Network Port Expander (Network Device)	010-00351-00	$249.99
GNT 10 NMEA Transceiver	010-01134-00	$149.99
GPS 19x HVS	010-01010-00	$199.99
GPS 19x NMEA 2000®	010-01010-10	$249.99
GPS 24XD RECEIVER	010-01010-10	$299.99
9-axis Heading Sensor	010-11417-20	$649.99
inReach Mini	010-01879-00	$349.99
inReach Mini Marine Bundle	010-01879-02	$379.99
MSC 10 Marine Satellite Compass	XXX-XXXXX-XX	$XXX.XX
GNA 10 Jog Lever Adapter	XXX-XXXXX-XX	$XXX.XX

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.

SUPPORT

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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