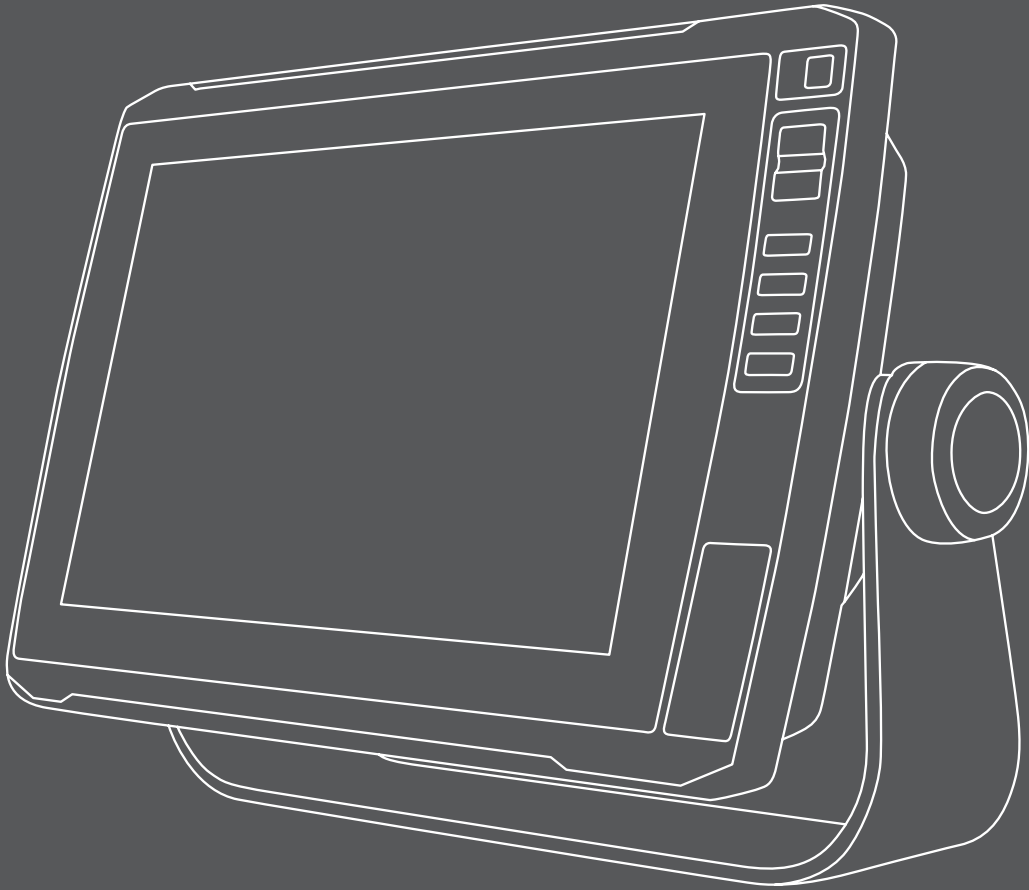


GARMIN®



ECHOMAP™ ULTRA 100/120 SERIES

Quick Start Manual

support.garmin.com

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Introduction

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

Front View



①	Automatic backlight sensor
②	Power key
③	Zoom keys
④	Shortcut keys
⑤	Touchscreen
⑥	2 microSD® memory card slots; 32 GB max. card size

Connector View



POWER	Power
12 PIN XDCR	12-pin transducer
LVS XDCR	Panoptix™ LiveScope™ LVS12 12-pin transducer
NMEA 2000	NMEA 2000® network
NETWORK	ECHOMAP network
	Ground screw

Assigning a Shortcut Key

You can quickly open commonly used screens by assigning a shortcut key. You can create a shortcut to screens such as sonar screens and charts.

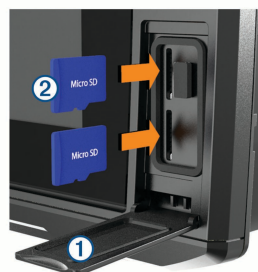
- 1 Open a page.
- 2 Hold a shortcut key, and select **OK**.

Inserting Memory Cards

You can use optional memory cards with the chartplotter. Map cards allow you to view high-resolution satellite imagery and aerial reference photos of ports, harbors, marinas, and other points of interest. You can use blank memory cards to record Garmin Quickdraw™ Contours mapping, record sonar (with a compatible transducer), transfer data such as waypoints and routes to another compatible chartplotter or a computer, and use the ActiveCaptain™ app.

This device supports up to a 32 GB memory card, formatted to FAT32.

- 1 Open the access flap or door ① on the front of the chartplotter.



- 2 Insert the memory card ②.
- 3 Press the card in until it clicks.
- 4 Close the door.

Getting Started with the ActiveCaptain App

You can connect a mobile device to the ECHOMAP Ultra device using the ActiveCaptain app. The app provides a quick and easy way for you to interact with your ECHOMAP Ultra device and complete such tasks as sharing data, registering, updating the device software, and receiving mobile device notifications.

- 1 Insert a memory card in one of the ECHOMAP Ultra device's card slots.

Be sure the card is inserted each time you want to use the ActiveCaptain feature.

- 2 Select **ActiveCaptain > Set ActiveCaptain Card**.

NOTICE

You might be prompted to format the memory card. Formatting the card deletes all information saved on the card. This includes any saved user data, such as waypoints. Formatting the card is recommended, but not required. Before formatting the card, you should save the data from the memory card onto the device internal memory.

- 3 From the **ActiveCaptain** page, select **Menu > Wi-Fi Setup > Wi-Fi Network > Wi-Fi > On**.
- 4 Enter a name and password for this network.
- 5 From the application store on your mobile device, install and open the ActiveCaptain app.
- 6 Bring the mobile device within 32 m (105 ft.) of the ECHOMAP Ultra device.
- 7 From your mobile device settings, open the Wi-Fi® connections page and connect to the Garmin® device, using the name and password you entered.

For more information about the ActiveCaptain app and features, see the Owner's Manual at www.garmin.com/manuals/echomap_ultra or watch a video at www.garmin.com/ActiveCaptainVideo.

Acquiring GPS Satellite Signals



The device may need a clear view of the sky to acquire satellite signals. The time and date are set automatically based on the GPS position.

- 1 Turn on the device.

- 2 Wait while the device locates satellites.

It may take 30 to 60 seconds to acquire satellite signals.


When the device acquires satellite signals,  appears at the top of the Home screen.

If the device loses satellite signals,  disappears and a flashing question mark appears over  on the chart.

For more information about GPS, go to www.garmin.com/aboutGPS.

Adjusting the Backlight

- 1 Select **Settings > System > Display > Backlight**.
- 2 Adjust the backlight.

TIP: From any screen, press  repeatedly to scroll through the brightness levels. This can be helpful when the brightness is so low you cannot see the screen.

Adjusting the Color Mode

- 1 Select **Settings > System > Display > Color Mode**.

TIP: Select  **> Display > Color Mode** from any screen to access the color settings.

- 2 Select an option.

Customizing the Home Screen

You can add items to and rearrange items on the Home screen.

- 1 From the Home screen, select **Customize Home**.
- 2 Select an option:
 - To rearrange an item, select **Rearrange**, select the item to move, and select the new location.
 - To add an item to the Home screen, select **Add**, and select the new item.
 - To remove an item you have added to the Home screen, select **Remove**, and select the item.
 - To change the Home screen background image, select **Background**, and select an image.

Sonar Fishfinder

When properly connected to a compatible transducer, your chartplotter can be used as a fishfinder.

For more information about which transducer is best for your needs, go to www.garmin.com/transducers.

Different sonar views can help you view the fish in the area. The sonar views available vary depending on the type of transducer and sounder module connected to the chartplotter. For example, you can view certain Panoptix sonar screens only if you have a compatible Panoptix transducer connected.

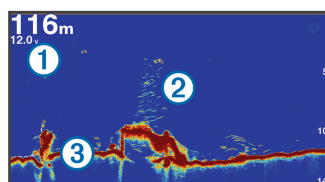
There are four basic styles of sonar views available: a full-screen view, a split-screen view that combines two or more views, a split-zoom view, and a split-frequency view that displays two different frequencies. You can customize the settings for each view in the screen. For example, if you are viewing the split-frequency view, you can separately adjust the gain for each frequency.

If you do not see an arrangement of sonar views to suit your needs, you can create a custom combination screen.

Traditional Sonar View

There are several full-screen views available, depending on the transducer that is connected.

The full-screen Traditional sonar view shows a large image of the sonar readings from a transducer. The range scale along the right side of the screen shows the depth of detected objects as the screen scrolls from the right to the left.



①	Depth information
②	Suspended targets or fish
③	Bottom of the body of water

Selecting the Transducer Type



Before you can select the transducer type, you must know what kind of transducer you have.

This chartplotter is compatible with a range of accessory transducers, including the Garmin ClearVü™ transducers, which are available at www.garmin.com/transducers.

If you are connecting a transducer that was not included with the chartplotter, you may need to set the transducer type to make the sonar function properly.

- 1 From a sonar view, select **Menu > Sonar Setup > Installation > Transducer Type**.
- 2 Select the transducer to change.
- 3 Select an option:
 - If your transducer is listed, select it from the list.
 - If you have a 200/77 kHz, dual-beam transducer, select **Dual Beam (200/77 kHz)**.
 - If you have a 200/50 kHz, dual-frequency transducer, select **Dual Frequency (200/50 kHz)**.

Creating a Waypoint on the Sonar Screen

- 1 From a sonar view, drag the screen or select .
- 2 Select a location.
- 3 Select .
- 4 If necessary, edit the waypoint information.

Navigation

Navigation Chart and Fishing Chart

The Fishing Chart provides a detailed view with more bottom detail and fishing content. This chart is optimized for use when fishing.

The Navigation Chart is optimized for navigation. You can plan a course, view map information, and use the chart as a navigational aid.

Marking Your Present Location as a Waypoint

From any screen, select **Mark**.

Creating a Waypoint at a Different Location

- 1 Select **Waypoints > New Waypoint**.
- 2 Select an option:
 - To create the waypoint by entering position coordinates, select **Enter Coordinates**, and enter the coordinates.
 - To create the waypoint using a chart, select **Use Chart**, select the location, and select **Select**.
 - To create the waypoint using a range (distance) and bearing, select **Enter Range/Bearing**, and enter the information.

Marking an MOB Location




Select **Mark > Man Overboard**.

An international man overboard (MOB) symbol marks the active MOB point and the chartplotter sets a direct course back to the marked location.

Navigating to a Point on the Chart

WARNING

All route and navigation lines displayed on the chartplotter are only intended to provide general route guidance or to identify proper channels, and are not intended to be precisely followed. Always defer to the nav aids and conditions on the water when navigating to avoid groundings or hazards that could result in vessel damage, personal injury, or death.

- 1 From the Navigation chart or Fishing chart, select a location.
- 2 If necessary, select **Navigate To**.
- 3 Select an option:
 - To navigate directly to the location, select **Go To** or .
 - To create a route to the location, including turns, select **Route To** or .
 - To use Auto Guidance, select **Auto Guidance** or .

NOTE: Auto Guidance is available with premium charts, in some areas.
- 4 Review the course indicated by the magenta line.

NOTE: When using Auto Guidance, a gray segment within any part of the magenta line indicates that Auto Guidance cannot calculate part of the Auto Guidance line. This is due to the settings for minimum safe water depth and minimum safe obstacle height.
- 5 Follow the magenta line, steering to avoid land, shallow water, and other obstacles.

Creating and Navigating a Route From Your Present Location

You can create and immediately navigate a route on the Navigation chart or the Fishing chart. This method does not save the route or the waypoint data.

- 1 From the Navigation chart or Fishing chart, select a destination.
- 2 Select **Navigate To > Route To**.
- 3 Select the location of the last turn before the destination.
- 4 Select **Add Turn**.
- 5 If necessary, repeat to add turns, working backward from the destination to the present location of your vessel.

The last turn you add should be the first turn you make, starting from your present location. It should be the turn closest to your vessel.
- 6 If necessary, select **Menu**.
- 7 Select **Done**.
- 8 Review the course indicated by the magenta line.
- 9 Follow the magenta line, steering to avoid land, shallow water, and other obstacles.

Stopping Navigation

From the Navigation chart or Fishing chart, select **Menu > Stop Navigation**.

Mapping a Body of Water Using the Garmin Quickdraw Contours Feature

Before you can use the Garmin Quickdraw Contours feature, you must have sonar depth, your GPS position, and a memory card with free space.

- 1 From a chart view, select **Menu > Quickdraw Contours > Start Recording**.
- 2 When recording is complete, select **Menu > Quickdraw Contours > Stop Recording**.
- 3 Select **Manage > Name**, and enter a name for the map.

More Information

Downloading the Manuals from the Web

You can get the latest owner's manual and translations of manuals from the Garmin website. The owner's manual includes instructions for using device features and accessing regulatory information.

- 1 Go to www.garmin.com/manuals/echomap_ultra.
- 2 Download the manual.

Garmin Support Center

Go to support.garmin.com for help and information, such as product manuals, frequently asked questions, videos, software updates, and customer support.

Specification Control Document

Drawing Number: 190-00720-02
Description: ISPI Marine Plotters, FCC 8.3x5.5 (EN)
Revision: H
Drawn By: TLM 10/10/07

Revision History

Rev.	Date	Description of Change	ECO No.
F	9/14/15	Updated Australian address, Changed dimensions	132698
G	6/13/16	Updated Warranty, Added GPS Notice	144226
H	4/26/17	Updated DoC reference for RED, Updated Warranty	157735

Printing Specifications

Tolerance: ± 0.0787 " (± 2 mm)
Material: 60-lb woodfree. Approved equivalents allowed.
Color: Black ink.
Bindery: Not applicable. Approved equivalents allowed.
Folds: Not applicable.
Trimmed Dimensions: 8.3 x 5.5 in.
Finished Dimensions: 8.3 x 5.5 in.
Notes: This part shall comply with Garmin Banned & Restricted Substances (GPN 001-00211-00).

Content Management System (CMS) Details

GUID: GUID-71530BC7-0EFF-43C5-855B-8C01EFFD8D50
Version: 4
Language(s): EN-US

Notes

For web PDF, use 190-00720-32.
Required post-processing to remove blank pages and be 2 pages (one sheet).

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IMPORTANT SAFETY AND PRODUCT INFORMATION

WARNING

Failure to heed the following warnings could result in an accident or collision resulting in death or serious injury.

Marine Operation Warnings

- **You are responsible for the safe and prudent operation of your vessel.** This device is a tool that will enhance your capability to operate your vessel. This device does not relieve you from the responsibility of safely operating your vessel. Avoid navigational hazards and never leave the helm unattended.
- Use this device only as a navigational aid. Do not attempt to use the device for any purpose requiring precise measurement of direction, distance, location, or topography.
- Always be prepared to promptly regain control of the vessel. Use caution near hazards in the water, such as docks, pilings and other vessels.
- If the device has navigating capabilities, when navigating, carefully compare information displayed on the device to all available navigation sources, including information from visual sightings, local waterway rules and restrictions, and maps. For safety, always resolve any discrepancies or questions before continuing navigation.
- If the device uses maps, use the electronic chart in the device only to facilitate, not to replace, the use of authorized government charts. Official government charts and notices to mariners contain all information needed to navigate safely.
- If the device provides depth data, it should not be used as the primary means of preventing grounding or collision. Supplement depth data readings with information from applicable paper charts and visual indicators. Always operate the vessel at slow speeds if you suspect shallow water or submerged objects. Failure to heed this warning could lead to vessel damage or personal injury.
- If the device has video input capabilities, do not attempt to operate or watch video input while operating or navigating your vessel. Operating or watching the video input while the vessel is moving could cause an accident or collision resulting in property damage, serious injury, or death.

Hearing Damage Warning

Listening to the stereo at high volume can cause damage to your hearing.

NOTICE

Failure to heed the following notice could result in personal or property damage, or negatively impact the device functionality.

Battery Notice

Contact your local waste disposal department to dispose of the device/batteries in accordance with applicable local laws and regulations.

GPS Notice

The navigation device may experience degraded performance if you use it in proximity to any device that uses a terrestrial broadband network operating close to the frequencies used by any Global Navigation Satellite System (GNSS), such as the Global Positioning Service (GPS). Use of such devices may impair reception of GNSS signals.

Product Environmental Programs

Information about the Garmin® product recycling program and WEEE, RoHS, REACH, and other compliance programs can be found at www.garmin.com/aboutGarmin/environment.

Declaration of Conformity

Hereby, Garmin declares that this product is in compliance with the Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.garmin.com/compliance.

Innovation, Science and Economic Development Canada Compliance

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency Radiation Exposure

This device is a mobile transmitter and receiver that uses an internal antenna to send and receive low levels of radio frequency (RF) energy for data communications. The device emits RF energy below the published limits when operating in its maximum output power mode and when used with Garmin authorized accessories. To comply with RF exposure compliance

requirements, the device should be installed and operated with a minimum of 20 cm (7.87 in.) between the device and your body. The device should not be used in other configurations. This device must not be co-located or operated in conjunction with any other transmitter or antenna.

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet that is on a different circuit from the GPS device.
- Consult the dealer or an experienced radio/TV technician for help.

This product does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 regulations.

Map Data Information

Garmin uses a combination of governmental and private data sources. Virtually all data sources contain some inaccurate or incomplete data. In some countries, complete and accurate map information is either not available or is prohibitively expensive.

Software License Agreement

BY USING THE DEVICE, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

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Limited Warranty

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER LEGAL RIGHTS, WHICH VARY FROM STATE TO STATE (OR BY COUNTRY OR PROVINCE). GARMIN DOES NOT EXCLUDE, LIMIT OR SUSPEND OTHER LEGAL RIGHTS YOU MAY HAVE UNDER THE LAWS OF YOUR STATE (OR COUNTRY OR PROVINCE). FOR A FULL UNDERSTANDING OF YOUR RIGHTS YOU SHOULD CONSULT THE LAWS OF YOUR STATE, COUNTRY OR PROVINCE.

Non-aviation products are warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This Limited Warranty does not apply to: (i) cosmetic damage, such as scratches, nicks and dents; (ii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iii) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (iv) damage caused by service performed by anyone who is not an authorized service provider of Garmin; (v) damage to a product that has been modified or altered without the written permission of Garmin, or (vi) damage to a product that has been connected to power and/or data cables that are not supplied by Garmin. In addition, Garmin reserves the right to refuse

warranty claims against products or services that are obtained and/or used in contravention of the laws of any country. Garmin navigation products are intended to be used only as a travel aid and must not be used for any purpose requiring precise measurement of direction, distance, location or topography. Garmin makes no warranty as to the accuracy or completeness of map data.

This Limited Warranty also does not apply to, and Garmin is not responsible for, any degradation in the performance of any Garmin navigation product resulting from its use in proximity to any handset or other device that utilizes a terrestrial broadband network operating on frequencies that are close to the frequencies used by any Global Navigation Satellite System (GNSS) such as the Global Positioning Service (GPS). Use of such devices may impair reception of GNSS signals.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE WARRANTIES AND REMEDIES CONTAINED IN THIS LIMITED WARRANTY ARE EXCLUSIVE AND IN LIEU OF, AND GARMIN EXPRESSLY DISCLAIMS, ALL OTHER WARRANTIES AND REMEDIES, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY REMEDY OR OTHERWISE. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER LEGAL RIGHTS, WHICH VARY FROM STATE TO STATE AND FROM COUNTRY TO COUNTRY. IF IMPLIED WARRANTIES CANNOT BE DISCLAIMED UNDER THE LAWS OF YOUR STATE OR COUNTRY, THEN SUCH WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES (AND COUNTRIES AND PROVINCES) DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL GARMIN BE LIABLE IN A CLAIM FOR BREACH OF WARRANTY FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES (AND COUNTRIES AND PROVINCES) DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

If during the warranty period you submit a claim for warranty service in accordance with this Limited Warranty, then Garmin will, at its option: (i) repair the device using new parts or previously used parts that satisfy Garmin's quality standards, (ii) replace the device with a new device or a refurbished device that meets Garmin's quality standards, or (iii) exchange the device for a full refund of your purchase price. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY. Repaired or replaced devices have a 90 day warranty. If the unit sent in is still under its original warranty, then the new warranty is 90 days or to the end of the original 1 year warranty, whichever is longer. Before seeking warranty service, please access and review the online help resources available on support.garmin.com. If your device is still not functioning properly after making use of these resources, contact a Garmin Authorized service facility in the original country of purchase or follow the instructions on support.garmin.com to obtain warranty service. If you are in the United States, you can also call 1-800-800-1020.

If you seek warranty service outside of the original country of purchase, Garmin cannot guarantee that the parts and products needed to repair or replace your product will be available due to differences in product offerings and applicable standards, laws and regulations. In that case, Garmin may, in its sole discretion and subject to applicable laws, repair or replace your product with comparable Garmin products and parts, or require you to ship your product to a Garmin Authorized service facility in the country of original purchase or to a Garmin Authorized service facility in another country that can service your product, in which case you will be responsible for complying with all applicable import and export laws and regulations and for paying all custom duties, V.A.T., shipping fees and other associated taxes and charges. In some cases, Garmin and its dealers may be unable to service your product in a country outside of the original country of purchase or return a repaired or replaced product to you in that country due to applicable standards, laws or regulations in that country.

Online Auction Purchases: Products purchased through online auctions are not eligible for rebates or other special offers from Garmin warranty coverage. Online auction confirmations are not accepted for warranty verification. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required. Garmin will not replace missing components from any package purchased through an online auction.

International Purchases: A separate warranty may be provided by international distributors for devices purchased outside the United States depending on the country. If applicable, this warranty is provided by the local in-country distributor and this distributor provides local service for your device. Distributor warranties are only valid in the area of intended distribution.

Marine Warranty Policy: Certain Garmin Marine products in certain areas have a longer warranty period and additional terms and conditions. Go to www.garmin.com/support/warranty_marine for more details and to see if your product is covered under the Garmin Marine Warranty Policy.

Australian Purchases: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or

damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits under our Limited Warranty are in addition to other rights and remedies under applicable law in relation to the products. Garmin Australasia, 30 Clay Place, Eastern Creek, NSW 2766, Australia. Phone: 1800 235 822.



Part Information

GPN:	190-00720-02
Description:	ISPI Marine Plotters, FCC 8.3x5.5 (EN)
Part Type:	Manuals / Printed Literature
Lifecycle Phase:	Production
Rev:	H ECO#157735

Item Attribution

Document Review Required:	
Item Notes:	
Preferred Rating:	
ESD Sensitive:	
Moisture Sensitive:	
Limited Shelf Life:	
Magnetic Sensitive:	