Raymarine



DJI DRONE

MICROUSB EXTENSION CABLE

Installation instructions

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Software updates



Check the Raymarine website for the latest software releases for your product. www.raymarine.com/software

Product documentation



The latest versions of all English and translated documents are available to download in PDF format from the website: www.raymarine.com/manuals. Please check the website to ensure you have the latest documentation.

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Chapter 1: Important information



Warning: Do NOT connect generic USB devices

- This product is intended for the connection of a drone (UAV) controller ONLY.
 Do NOT connect ANY other USB device.
- Connecting any device other than a drone (UAV) controller could result in damage to your USB device and / or a connected multifunction display (MFD).



Warning: Product installation and operation

- This product must be installed and operated in accordance with the instructions provided. Failure to do so could result in personal injury, damage to your vessel and/or poor product performance.
- Raymarine recommends certified installation by a Raymarine approved installer.
 A certified installation qualifies for enhanced product warranty benefits. Contact your Raymarine dealer for further details, and refer to the separate warranty document packed with your product.



Warning: Potential ignition source

This product is NOT approved for use in hazardous/flammable atmospheres. Do NOT install in a hazardous/flammable atmosphere (such as in an engine room or near fuel tanks).



Warning: Product grounding

Before applying power to this product, ensure it has been correctly grounded, in accordance with the instructions provided.



Warning: Positive ground systems

Do not connect this unit to a system which has positive grounding.



Warning: Switch off power supply

Ensure the vessel's power supply is switched OFF before starting to install this product. Do NOT connect or disconnect equipment with the power switched on, unless instructed in this document.

Caution: Power supply protection

When installing this product ensure the power source is adequately protected by means of a suitably-rated fuse or thermal circuit breaker.

Water ingress

Water ingress disclaimer

Although the waterproof rating capacity of this product meets the IPX6 standard, water intrusion and subsequent equipment failure may occur if the product is subjected to commercial high-pressure washing. Raymarine will not warrant products subjected to high-pressure washing.

Disclaimer

Raymarine does not warrant that this product is error-free or that it is compatible with products manufactured by any person or entity other than Raymarine.

Raymarine is not responsible for damages or injuries caused by your use or inability to use the product, by the interaction of the product with products manufactured by others, or by errors in information utilized by the product supplied by third parties.

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EMC installation guidelines

Raymarine equipment and accessories conform to the appropriate Electromagnetic Compatibility (EMC) regulations, to minimize electromagnetic interference between equipment and minimize the effect such interference could have on the performance of your system

Correct installation is required to ensure that EMC performance is not compromised.

Note: In areas of extreme EMC interference, some slight interference may be noticed on the product. Where this occurs the product and the source of the interference should be separated by a greater distance.

For **optimum** EMC performance we recommend that wherever possible:

- · Raymarine equipment and cables connected to it are:
 - At least 1 m (3.3 ft) from any equipment transmitting or cables carrying radio signals e.g. VHF radios, cables and antennas. In the case of SSB radios, the distance should be increased to 2 m (6.6 ft).
 - More than 2 m (6.6 ft) from the path of a radar beam. A radar beam can normally be assumed to spread 20 degrees above and below the radiating element.
- The product is supplied from a separate battery from that used for engine start. This is important to prevent erratic behavior and data loss which can occur if the engine start does not have a separate battery.
- · Raymarine specified cables are used.
- · Cables are not cut or extended, unless doing so is detailed in the installation manual.

Note:

Where constraints on the installation prevent any of the above recommendations, always ensure the maximum possible separation between different items of electrical equipment, to provide the best conditions for EMC performance throughout the installation.

Declaration of Conformity

FLIR Belgium BVBA declares that the DJI Drone Extension Cable, part number A80630, is in compliance with the EMC Directive 2014/30/EU.

The original Declaration of Conformity certificate may be viewed on the relevant product page at www.raymarine.com/manuals.

Product disposal

Dispose of this product in accordance with the WEEE Directive.

The Waste Electrical and Electronic Equipment (WEEE) Directive requires the recycling of waste electrical and electronic equipment which contains materials, components and substances that may be hazardous and present a risk to human health and the environment when WEEE is not handled correctly.



Equipment marked with the crossed-out wheeled bin symbol indicates that the equipment should not be disposed of in unsorted household waste.

Local authorities in many regions have established collection schemes under which residents can dispose of waste electrical and electronic equipment at a recycling center or other collection point.

For more information about suitable collection points for waste electrical and electronic equipment in your region, refer to the Raymarine website: www.raymarine.eu/recycling.

Warranty registration

To register your Raymarine product ownership, please visit www.raymarine.com and register online.

It is important that you register your product to receive full warranty benefits. Your unit package includes a bar code label indicating the serial number of the unit. You will need this serial number when registering your product online. You should retain the label for future reference.

IMO and SOLAS

The equipment described within this document is intended for use on leisure marine boats and workboats NOT covered by International Maritime Organization (IMO) and Safety of Life at Sea (SOLAS) Carriage Regulations.

Technical accuracy

To the best of our knowledge, the information in this document was correct at the time it was produced. However, Raymarine cannot accept liability for any inaccuracies or omissions it may contain. In addition, our policy of continuous product improvement may change specifications without notice. As a result, Raymarine cannot accept liability for any differences between the product and this document. Please check the Raymarine website (www.raymarine.com) to ensure you have the most up-to-date version(s) of the documentation for your product.

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Chapter 2: Product and system overview

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- 2.1 Document information on page 12
- 2.2 Applicable products on page 12
- 2.3 Product overview on page 12

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2.1 Document information

This document contains important information related to the installation of your Raymarine product. The document includes information to help you:

- plan your installation and ensure you have all the necessary equipment;
- install and connect your product as part of a wider system of connected marine electronics;
- troubleshoot problems and obtain technical support if required.

This and other Raymarine product documents are available to download in PDF format from www.raymarine.com/manuals.

Product documentation

The following documentation is applicable to your product:

Description	Part number
Installation instructions	87398
Mounting template	87388

All documentation is available for download from the Raymarine website: www.raymarine.com/manuals

2.2 Applicable products

This document applies to the following products:

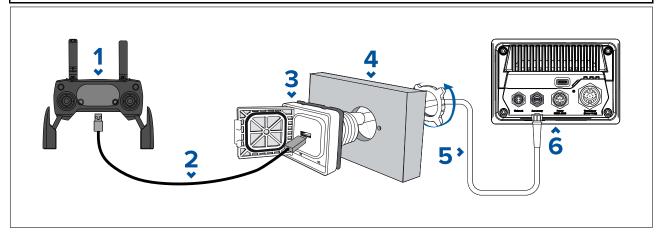
• A80630 — DJI Drone Extension Cable

2.3 Product overview

The DJI Drone Extension Cable is a combined remote Micro USB port extender and USB extension cable, for Axiom multifunction displays (MFDs).

The DJI Drone Extension Cable is designed to offer greater installation flexibility when connecting a compatible DJI Drone (UAV) controller to an Axiom MFD. The DJI Drone Extension Cable effectively extends the USB (Accessory) port located at the rear of the Axiom MFD, and enables you to re-locate the port to a more convenient location.

Important: The DJI Drone Extension Cable is NOT designed for any purpose other than connecting a compatible drone (UAV) controller. Connecting other USB devices may cause damage to the connected device and / or the multifunction display (MFD).



- Compatible drone (UAV) controller connects to the USB port extender via the controller's Micro USB cable (not supplied).
- Compatible drone (UAV) controller controller's Micro USB cable (not supplied).
- 3. **Micro USB A female port** connects to a compatible DJI Drone (UAV) controller ONLY, via its Micro USB cable. Do NOT connect any other USB device.
- 4. **Mounting surface** the Micro USB port extender can be surface or flush mounted.

- 5. Captive 1 m (3.28 ft) USB cable connects to the Accessory port on an Axiom MFD.
- 6. Axiom MFD

The DJI Drone Extension Cable has a waterproof rating of IPx6 / IPx7 (with the lid closed).

Compatible UAVs

Currently the UAVs listed below are supported:

- Mavic Pro by DJI
- Mavic Pro Platinum by DJI
- Mavic 2 Pro by DJI
- Mavic 2 Zoom by DJI

Connection to any other UAV is not approved and is performed at your own risk.



Warning: Do NOT connect generic USB devices

- This product is intended for the connection of a drone (UAV) controller ONLY. Do NOT connect ANY other USB device.
- Connecting any device other than a drone (UAV) controller could result in damage to your USB device and / or a connected multifunction display (MFD).

Compatible displays

The DJI Drone Extension Cable is compatible with the following LightHouse™ multifunction displays (MFDs).

- Axiom
- · Axiom+
- · Axiom Pro
- Axiom XL

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Chapter 3: Parts supplied

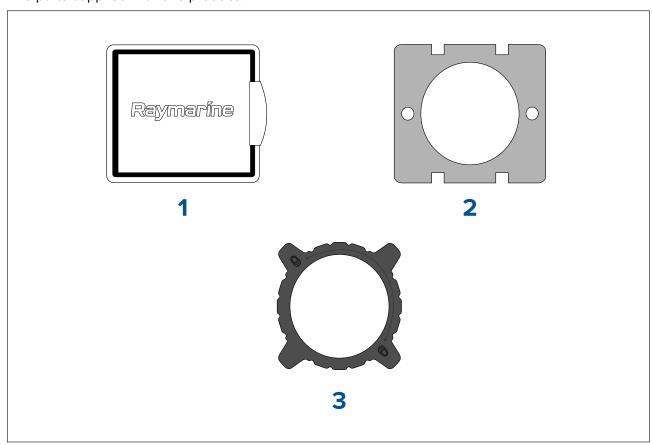
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3.1 Parts supplied

The parts supplied with this product.



- 1x DJI Drone Extension Cable (consists of Micro USB port extender, with a 1 m (3.28 ft) Micro USB captive cable).
- 2. 1x Foam gasket.
- 3. 1x Lock ring.

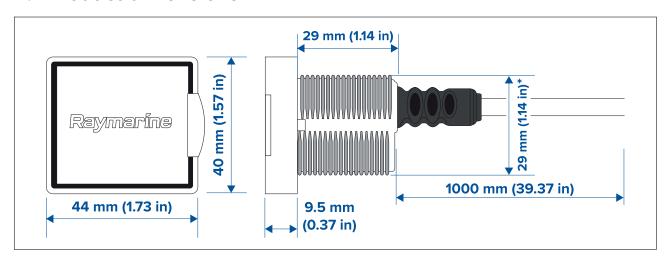
Chapter 4: Product dimensions

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4.1 Product dimensions



^{* 29} mm (1.14 in) diameter cut-out hole required.

Chapter 5: Location requirements

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5.1 Switch off power supply

Ensure the vessel's power supply is switched OFF before starting to install this product. Do NOT connect or disconnect equipment with the power switched on, unless instructed in this document.

5.2 Potential ignition source

This product is NOT approved for use in hazardous/flammable atmospheres. Do NOT install in a hazardous/flammable atmosphere (such as in an engine room or near fuel tanks).

5.3 Location requirements

Location considerations.

- Ensure the unit's cable can reach the accessory port of the MFD before mounting.
- To maximise ease of use it is recommended that the unit is mounted in an easy to access location.
- Mount the unit in a location that is protected from physical damage and vibration.
- Ensure the unit is mounted far enough away from equipment or cabling that may cause interference, such as motors, generators, radio transmitters, magnetic compass or power cables.
- Ensure that the cabling is secured at regular intervals to prevent stress on connectors.

Important:

This product is NOT waterproof when the lid is open.

5.4 EMC installation guidelines

Raymarine equipment and accessories conform to the appropriate Electromagnetic Compatibility (EMC) regulations, to minimize electromagnetic interference between equipment and minimize the effect such interference could have on the performance of your system

Correct installation is required to ensure that EMC performance is not compromised.

Note: In areas of extreme EMC interference, some slight interference may be noticed on the product. Where this occurs the product and the source of the interference should be separated by a greater distance.

For **optimum** EMC performance we recommend that wherever possible:

- Raymarine equipment and cables connected to it are:
 - At least 1 m (3.3 ft) from any equipment transmitting or cables carrying radio signals e.g. VHF radios, cables and antennas. In the case of SSB radios, the distance should be increased to 2 m (6.6 ft).
 - More than 2 m (6.6 ft) from the path of a radar beam. A radar beam can normally be assumed to spread 20 degrees above and below the radiating element.
- The product is supplied from a separate battery from that used for engine start. This is important
 to prevent erratic behavior and data loss which can occur if the engine start does not have a
 separate battery.
- · Raymarine specified cables are used.
- Cables are not cut or extended, unless doing so is detailed in the installation manual.

Note:

Where constraints on the installation prevent any of the above recommendations, always ensure the maximum possible separation between different items of electrical equipment, to provide the best conditions for EMC performance throughout the installation.

Chapter 6: Installation

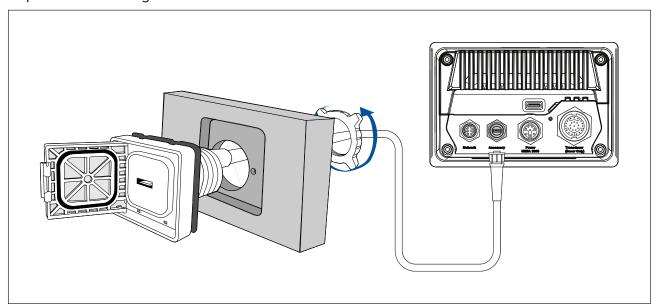
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6.1 Flush mounting

Flush mounting provides a sleek installation where the product and dash are flush. Flush mounting requires the mounting surface to be rebated.



- 1. Check the selected location for the unit. A clear, flat area with suitable clearance behind the panel is required.
- 2. Before modifying the mounting surface, refer to the dimensions supplied in this documentation to ensure there is enough space for the unit and all cables.
- 3. Fix the supplied mounting template (87388) to the selected location, using masking or self adhesive tape.
- 4. Drill 2 holes as indicated on the mounting template to accept the location lugs.
- 5. Using a suitable drill or saw, cut out the center hole.
- 6. Using a Router, follow the Flush mount rebate line, to cut out a rebate to the specified rebate depth, as indicated on the template.

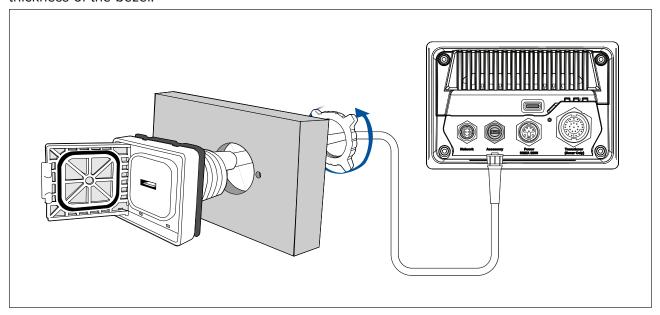
Important:

For CNC machining CAD data is available on the Raymarine website.

- 7. Ensure that the unit fits into the removed area and then remove rough edges.
- 8. Attach the gasket to the rear of the reader.
- 9. Feed the 1m (3.28 ft) cable through the hole and the lock ring (on the other side of the hole). Connect the cable to the Accessory connection on the rear of your MFD.
- 10. Insert the reader into the cut-out hole.
- 11. Secure the reader by screwing the lock ring on until the reader is firmly in place.
- 12. To prevent water ingress and consequent damage to the product, ensure that the reader door or cover is firmly closed.

6.2 Surface mounting

When surface mounted the product protrudes slightly from the mounting surface, usually by the thickness of the bezel.



- 1. Check the selected location for the unit. A clear, flat area with suitable clearance behind the panel is required.
- 2. Before modifying the mounting surface, refer to the dimensions supplied in this documentation to ensure there is enough space for the unit and all cables.
- 3. Fix the supplied mounting template (87388) to the selected location, using masking or self adhesive tape.
- 4. Drill 2 holes as indicated on the mounting template to accept the location lugs.
- 5. Using a suitable drill or saw, cut out the center hole.
- 6. Ensure that the unit fits into the removed area and then remove rough edges.
- 7. Attach the gasket to the rear of the reader.
- 8. Feed the 1 m (3.28 ft) cable through the hole and the lock ring (on the other side of the hole). Connect the cable to the Accessory connection on the rear of your MFD.
- 9. Insert the reader into the cut-out hole.
- 10. Secure the reader by screwing the lock ring until the reader is firmly in place.
- 11. To prevent water ingress, ensure that the card reader door cover is firmly closed.

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Chapter 7: Connections

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7.1 General cabling guidance

Cable types and length

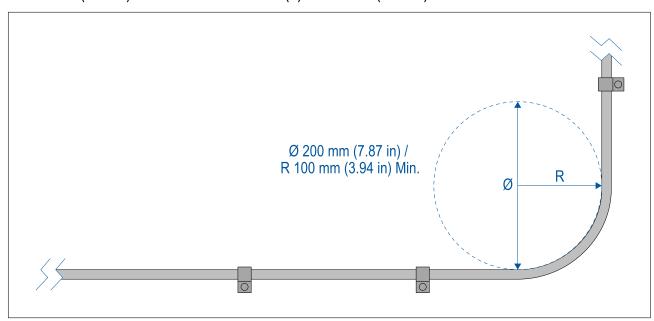
It is important to use cables of the appropriate type and length.

- Unless otherwise stated only use cables supplied by Raymarine.
- Where it is necessary to use non-Raymarine cables, ensure that they are of correct quality and gauge for their intended purpose. (e.g.: longer power cable runs may require larger wire gauges to minimize voltage drop along the run).

Cable routing

Cables must be routed correctly, to maximize performance and prolong cable life.

• Do NOT bend cables excessively. Wherever possible, ensure a minimum bend diameter (Ø) of 200 mm (7.87 in) / minimum bend radius (R) of 100 mm (3.94 in).



- Protect all cables from physical damage and exposure to heat. Use trunking or conduit where possible. Do NOT run cables through bilges or doorways, or close to moving or hot objects.
- Secure cables in place using cable clips or cable ties. Coil any excess cable and tie it out of the way.
- Where a cable passes through an exposed bulkhead or deckhead, use a suitable watertight feed-through.
- Do NOT run cables near to engines or fluorescent lights.
- Always route data cables as far away as possible from:
 - other equipment and cables,
 - high current carrying AC and DC power lines,
 - antennas.

Strain relief

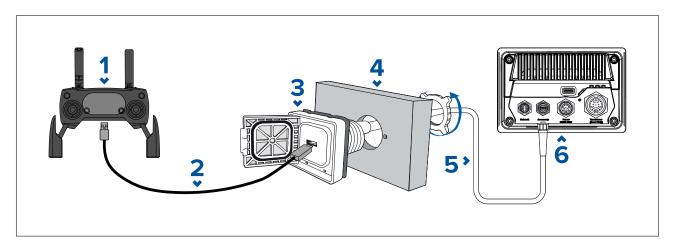
Use adequate strain relief for cabling to ensure that connectors are protected from strain and will not pull out under extreme sea conditions.

Cable shielding

Ensure that cable shielding is not damaged during installation and that all cables are properly shielded.

7.2 Connections overview

Your DJI Drone Extension Cable connects to the Micro USB Accessory port located at the rear of your Axiom MFD.



- Compatible drone (UAV) controller connects to the USB port extender via the controller's Micro USB cable (not supplied).
- 2. Compatible drone (UAV) controller controller's Micro USB cable (not supplied).
- 3. **Micro USB A female port** connects to a compatible DJI Drone (UAV) controller ONLY, via its Micro USB cable. Do NOT connect any other USB device.
- 4. **Mounting surface** the Micro USB port extender can be surface or flush mounted.
- 5. Captive 1 m (3.28 ft) USB cable connects to the Accessory port on an Axiom MFD.
- 6. Axiom MFD

7.3 Do NOT connect generic USB devices

- This product is intended for the connection of a drone (UAV) controller ONLY. Do NOT connect ANY other USB device.
- Connecting any device other than a drone (UAV) controller could result in damage to your USB device and / or a connected multifunction display (MFD).

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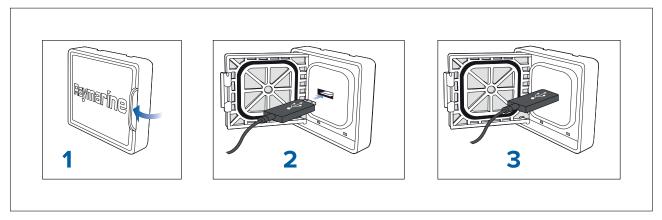
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- 8.1 Inserting the drone controller cable into the port extender on page 30
- 8.2 Do NOT connect generic USB devices on page 30

Operation

8.1 Inserting the drone controller cable into the port extender

To correctly insert the Drone controller's Micro USB cable into the port:



- 1. Press the tab in and pull the lid open to expose the extender's Micro USB port.
- 2. Orient the Micro USB plug the correct way up and then gently insert it into the Micro USB port.
- 3. Ensure the Micro USB plug is fully inserted into the extender before attempting to use. DO NOT use a metallic instrument such as a screwdriver or pliers to insert or remove a Micro USB.

Important:

- Keep the product's lid closed when not in use.
- DO NOT open the product's lid when it is at risk of getting wet.

8.2 Do NOT connect generic USB devices

- This product is intended for the connection of a drone (UAV) controller ONLY. Do NOT connect ANY other USB device.
- Connecting any device other than a drone (UAV) controller could result in damage to your USB device and / or a connected multifunction display (MFD).

Chapter 9: Maintenance

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9.1 Service and maintenance

This product contains no user serviceable components. Please refer all maintenance and repair to authorized Raymarine dealers. Unauthorized repair may affect your warranty.

9.2 Routine equipment checks

It is recommended that you perform the following routine checks, on a regular basis, to ensure the correct and reliable operation of your equipment:

- Examine all cables for signs of damage or wear and tear.
- Check that all cables are securely connected.

Chapter 10: Technical support

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10.1 Raymarine product support and servicing

Raymarine provides a comprehensive product support service, as well as warranty, service, and repairs. You can access these services through the Raymarine website, telephone, and e-mail.

Product information

If you need to request service or support, please have the following information to hand:

- · Product name.
- · Product identity.
- · Serial number.
- · Software application version.
- · System diagrams.

You can obtain this product information using diagnostic pages of the connected MFD.

Servicing and warranty

Raymarine offers dedicated service departments for warranty, service, and repairs.

Don't forget to visit the Raymarine website to register your product for extended warranty benefits: http://www.raymarine.co.uk/display/?id=788.

United Kingdom (UK), EMEA, and Asia Pacific:

- E-Mail: emea.service@raymarine.com
- Tel: +44 (0)1329 246 932

United States (US):

- E-Mail: rm-usrepair@flir.com
- Tel: +1 (603) 324 7900

Web support

Please visit the "Support" area of the Raymarine website for:

- Manuals and Documents http://www.raymarine.com/manuals
- Technical support forum http://forum.raymarine.com
- Software updates http://www.raymarine.com/software

Worldwide support

United Kingdom (UK), EMEA, and Asia Pacific:

- Help desk: https://raymarine.custhelp.com/app/ask
- Tel: +44 (0)1329 246 777

United States (US):

- Help desk: https://raymarine.custhelp.com/app/ask
- Tel: +1 (603) 324 7900 (Toll-free: +800 539 5539)

Australia and New Zealand (Raymarine subsidiary):

- E-Mail: aus.support@raymarine.com
- Tel: +61 2 8977 0300

France (Raymarine subsidiary):

- E-Mail: support.fr@raymarine.com
- Tel: +33 (0)1 46 49 72 30

Germany (Raymarine subsidiary):

- E-Mail: support.de@raymarine.com
- Tel: +49 40 237 808 0

Italy (Raymarine subsidiary):

- E-Mail: support.it@raymarine.com
- Tel: +39 02 9945 1001

Spain (Authorized Raymarine distributor):

• E-Mail: sat@azimut.es

• Tel: +34 96 2965 102

Netherlands (Raymarine subsidiary):

• E-Mail: support.nl@raymarine.com

• Tel: +31 (0)26 3614 905

Sweden (Raymarine subsidiary):

• E-Mail: support.se@raymarine.com

• Tel: +46 (0)317 633 670

Finland (Raymarine subsidiary):

• E-Mail: support.fi@raymarine.com

• Tel: +358 (0)207 619 937

Norway (Raymarine subsidiary):

• E-Mail: support.no@raymarine.com

• Tel: +47 692 64 600

Denmark (Raymarine subsidiary):

• E-Mail: support.dk@raymarine.com

• Tel: +45 437 164 64

Russia (Authorized Raymarine distributor):

• E-Mail: info@mikstmarine.ru

• Tel: +7 495 788 0508

10.2 Learning resources

Raymarine has produced a range of learning resources to help you get the most out of your products.

Video tutorials

Raymarine official channel on YouTube:

YouTube

LightHouse[™] 3 tips and tricks:

Raymarine website

Video Gallery:

Raymarine website

Note:

- Viewing the videos requires a device with an Internet connection.
- · Some videos are only available in English.

Training courses

Raymarine regularly runs a range of in-depth training courses to help you make the most of your products. Visit the Training section of the Raymarine website for more information:

http://www.raymarine.co.uk/view/?id=2372

Technical support forum

You can use the Technical support forum to ask a technical question about a Raymarine product or to find out how other customers are using their Raymarine equipment. The resource is regularly updated with contributions from Raymarine customers and staff:

http://forum.raymarine.com

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Chapter 11: Technical specification

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11.1 Technical specification

Environmental specification

Operating temperature	-25 °C to +55 °C (-13 °F to 131 °F)
Storage temperature	-30 °C to +70 °C (-22 °F to 158 °F)
Relative humidity	Maximum 93%
Waterproof rating	IPx6 & IPx7 (lid closed)

Power

Power consumption	5 V dc
Current	Peak 0.25 A

Weight

M/a i mlad	200 a
Weight	200 g

Wired connections

USB	1 x Micro USB
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11.2 Compliance

The product has been tested to the relevant sections of the standards listed below.

EMC	• EN 60945:2002
	EMC Directive 2014/30/EU
	Australia and New Zealand C-Tick compliance level 2

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