

GARMIN®

SPY™ POLE MOUNT

Installation Instructions

Important Safety Information

⚠ WARNING

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

Failure to install this device according to these instructions could result in personal injury, damage to the vessel or device, or poor product performance.

⚠ CAUTION

For the best possible performance and to avoid potential injury, damage to the device, or damage to your vessel, installation by a qualified marine installer is recommended.

To avoid possible personal injury, always wear safety goggles, ear protection, and a dust mask when drilling, cutting, or sanding.

NOTICE

When drilling or cutting, always check what is on the opposite side of the surface to avoid damaging the vessel.

Tools Needed

- Screwdrivers
 - #1 Phillips
 - #2 Phillips
 - #3 Phillips
- 10 mm ($\frac{3}{8}$ in.) socket or standard wrench
- Drill and drill bits
 - 3 mm ($\frac{1}{8}$ in.)
 - Appropriately sized drill bit for heading sensor cable passthrough hole (if necessary) (*Heading Sensor Mounting Considerations*, page 4)

Securing the Spy Pole to a Force® Trolling Motor

The Spy pole is intended to be installed on a Force trolling motor using the included trolling motor bracket. If you do not have a compatible trolling motor, you can install the Spy pole on your vessel's gunnel using the gunnel mount accessory (not included).

NOTE: The bracket is designed to be mounted to any Garmin® scissor-style trolling motor, such as the Force or Force Pro trolling motor.

- 1 Install the bracket on your Force trolling motor (*Installing the Trolling Motor Bracket on a Force® Trolling Motor*, page 1).
- 2 Install the Spy pole on the trolling motor bracket (*Installing the Spy Pole on the Force® Trolling Motor Bracket*, page 1).
- 3 Install the trolling motor stabilizer to the trolling motor bracket (optional) (*Installing a Trolling Motor Stabilizer*, page 1).

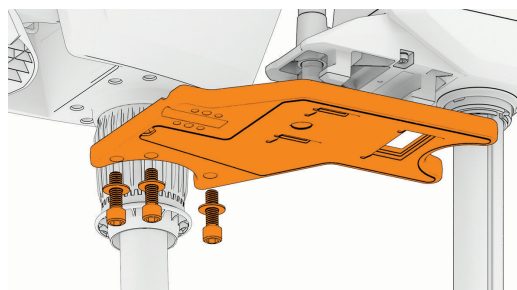
Installing the Trolling Motor Bracket on a Force® Trolling Motor

The Spy pole can be mounted onto any compatible Garmin® scissor-style trolling motor, such as the Force or Force Pro trolling motor.

NOTE: You can attach the bracket so that it is facing either the port or starboard side of your vessel.

- 1 Remove the stabilizer mount from your trolling motor if you have one installed on the same side as the Spy pole.

- 2 Place the three $\frac{3}{8}$ in. washers on the included $\frac{3}{8}$ in. x30 mm hex screws.



- 3 Line up the three screw holes in the bracket with the holes in the bottom of the trolling motor.
- 4 Using a $\frac{5}{16}$ in. hex wrench or bit, secure the bracket to the trolling motor using the three screws.

Installing the Spy Pole on the Force® Trolling Motor Bracket

Before you connect the Spy pole to the trolling motor, you must install the bracket on your Force trolling motor.

- 1 Align the three pegs on the bottom of the Spy pole housing with the three holes in the bracket.
- 2 Press the front, wider peg down into the slot in the bracket.
- 3 Press the other two pegs down into the slots in the bracket until you hear a click.

NOTICE

Ensure that the quick release pin is fully pressed into the bracket.

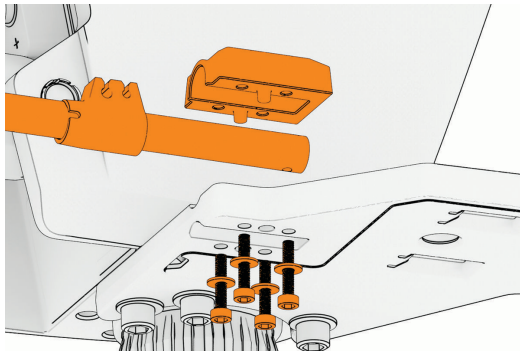
The Spy pole is securely connected to the bracket.

Installing a Trolling Motor Stabilizer

The Spy pole includes a trolling motor stabilizer to support the assembly if you pull it out of the water. If you already have a stabilizer on your trolling motor, you can also relocate it to the Spy pole bracket for the best performance.

- 1 Remove the stabilizer from the stabilizer bracket, if necessary.
- 2 Remove the old pullcord grip from the end of the stabilizer, if necessary. You will no longer need the old pullcord grip as a new one is included with the Spy pole.
- 3 Stow your trolling motor so that it rests above the vessel deck.
- 4 Check the length of your stabilizer by placing it on the deck next to the indent in the Spy pole bracket.
- 5 If your stabilizer is too long, mark off any excess length and cut the stabilizer so that it will fit into the indent and rest flat on your vessel's deck.
- 6 Locate the included rubber pullcord grip, stabilizer puck, 5 mm washers, and M5x0.8x25 mm hex screws.
- 7 Slide the rubber pullcord grip onto your stabilizer. You may need to wet the stabilizer shaft to slide the pullcord grip onto the stabilizer.





- 8 Place the 5 mm washers on the M5x0.8x25 mm hex screws.
- 9 Place the top of the stabilizer in the cylindrical indent on the top of the trolling motor bracket, and place the stabilizer puck over the stabilizer.
- 10 Using a $\frac{5}{32}$ in. hex wrench or bit, secure the stabilizer puck to the top of the trolling motor bracket with the M5x0.8x25 mm hex screws.

Connecting to Power

⚠ WARNING

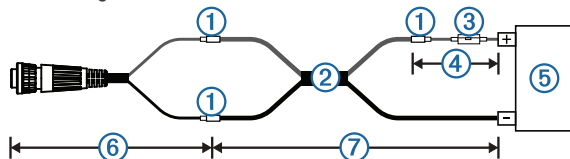
When connecting the power cable, do not remove the inline fuse holder. To prevent the possibility of personal injury or product damage caused by fire or overheating, the appropriate fuse must be in place as indicated in the product specifications. Connecting the power cable without the appropriate fuse in place voids the product warranty.

You should connect the red wire to the power source through the ignition or another manual switch to turn the device on and off.

- 1 Route the power cable to the power source.
If necessary, you can extend the power cable (*Power Cable Extensions*, page 2).
- 2 Connect the red power wire to the ignition or another manual switch, and connect the switch to the positive (+) battery terminal if necessary.
- 3 Connect the black wire to the negative (-) battery terminal or to ground.

Power Cable Extensions

If necessary, the power cable can be extended using the appropriate wire gauge for the length of the extension.



1	Splice
2	- Up to 4.5 m (15 ft.): 16 AWG (1.31 mm²) extension wire - Up to 7 m (23 ft.): 14 AWG (2.08 mm²) extension wire - Up to 11 m (36 ft.): 12 AWG (3.31 mm²) extension wire
3	Fuse (8 A)
4	20.3 cm (8 in.)
5	Battery or boat power
6	20.3 cm (8 in.)
7	11 m (36 ft.) maximum extension

Setting the Spy Pole Depth

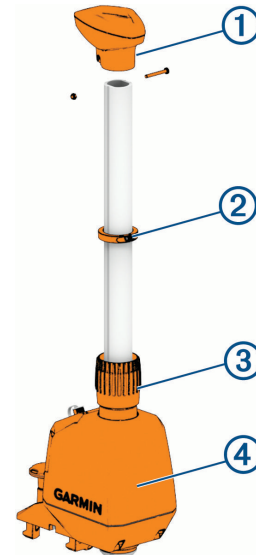
You can use the depth-indicator ring to set the maximum depth for the Spy pole. With the depth-indicator ring in place, you can raise the Spy pole if needed and the ring will prevent it from going too deep when lowering it again.

NOTICE

If you installed the Spy pole on a trolling motor, you must set the depth-indicator ring at a point that prevents the spy pole from being lowered deep enough to contact the propeller of the trolling motor. If the trolling motor

propeller contacts the Spy pole, it can damage the Spy pole, any attachments on the pole, and the propeller.

- 1 Loosen the screw in the depth ring (2) with a #2 Phillips screwdriver until the ring slides freely along the Spy pole.



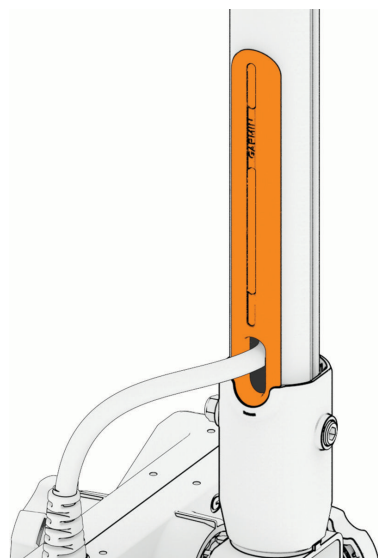
- 2 If you want to uninstall the depth ring, remove the top cap (1) and slide the ring off the top of the pole.
- 3 Loosen the depth adjustment collar (3) on top of the Spy pole motor housing (4) and adjust the depth of the pole.
- 4 If you installed the Spy pole on a trolling motor, you must test the depth to make sure that the trolling motor propeller does not contact the Spy pole or any attachments on the pole.
- 5 After the pole is set at the preferred depth, tighten the depth-adjustment collar.
- 6 Slide the depth ring down until it sits flush against the top of the depth-adjustment collar.
- 7 Tighten the screw on the depth ring to secure it in place.

The depth ring marks the Spy pole's maximum depth and prevents it from being lowered deeper. If you need to raise the pole out of the water, you can easily return it to your preferred depth by sliding it down to the depth ring.

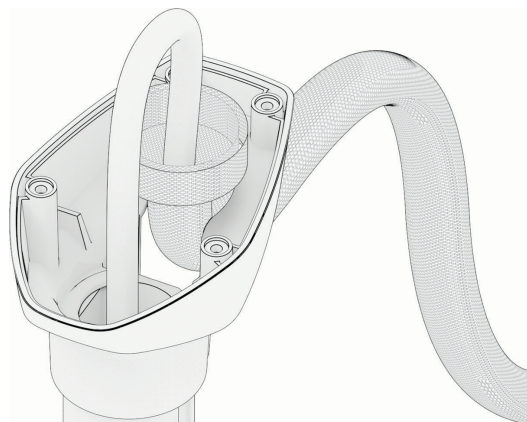
Routing Cables Through the Spy Pole

You can route cables for a LiveScope™ transducer or other device through the Spy pole to simplify cable management.

- 1 Remove any installed attachment from the bottom of the Spy pole.
- 2 Using a #2 Phillips screwdriver, remove the bolt and nut that secure the top cap of the Spy pole and remove the cap.
- 3 Route the cable from the transducer or other device up from the bottom of the pole and out through the top.
- 4 Slide the rubber cable grommet into the slot at the bottom of the shaft, with the larger hole facing down.
- 5 At the bottom of the pole, press the cable through the split at the bottom of the grommet and into the hole.



- 6 Connect or reconnect any bottom attachments to the Spy pole.
- 7 Using a #1 Phillips screwdriver, remove the screws and separate the two halves of the top cap you removed earlier.
- 8 Route the cable from the top of the Spy pole through the hole in the bottom half of the top cap.



- 9 Starting with the ring side of the cable sleeve, slide it over the cable.
- 10 Route the cable and cable sleeve through the exit hole in the top cap.
- 11 Using a #2 Philips screwdriver, reinstall the screws to connect both halves of the top cap.
- 12 Place the top cap on the Spy pole.
- 13 Install the bolt and nut, and using a #2 Phillips screwdriver, tighten the bolt to secure the top cap to the Spy pole.

Installing Cable Clips

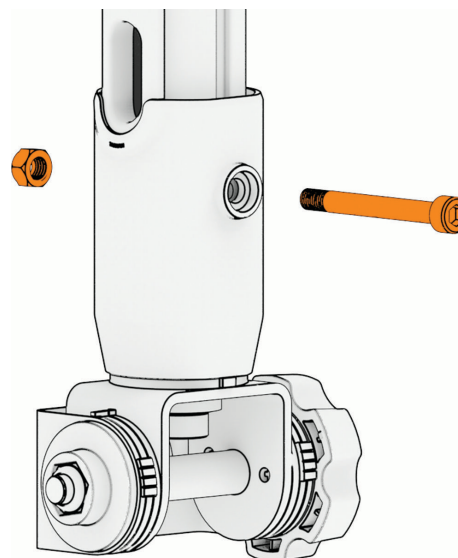
You can use the included cable clips to secure the device cables to the side of the trolling motor.

- 1 Use a #2 Phillips screwdriver to screw the cable clip nut plate to the port side of the trolling motor using the existing threaded openings.
- 2 On the starboard side of the trolling motor, Unscrew the existing metal clamp holding the trolling motor power cable.
- 3 Use the existing screws and threaded openings to connect the other cable clip bracket.
- 4 Route any cables through the brackets of each clip as needed.
- 5 Press the top half of each clip into the bracket to secure your cables.

Installing the LiveScope™ Transducer Bottom Shaft Mount

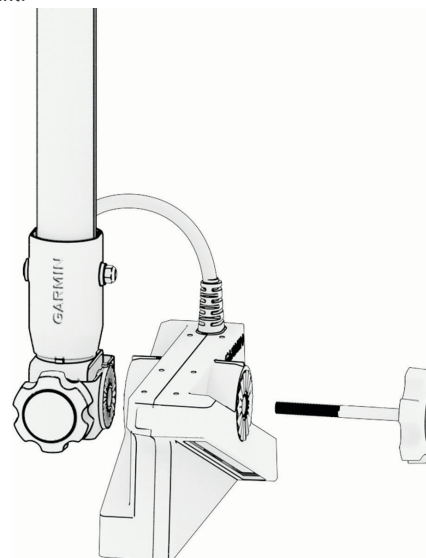
You must install the cable guard grommet on the shaft and route the LiveScope transducer cables through the shaft before you can install the bottom shaft mount (*Routing Cables Through the Spy Pole*, page 2).

- 1 Slide the LiveScope transducer bottom shaft mount onto the end of the Spy pole.
- 2 Set the included M6 nut in the enclosure on the bottom shaft mount.
- 3 Insert the included M6 50 mm bolt through the bottom shaft mount and tighten it onto the nut using a 10 mm hex wrench or bit.



Connecting a LiveScope™ Transducer to the Mount

- 1 Choose the right adapter disc for your LiveScope transducer. Each disc is labelled with a different LiveScope transducer model.
- 2 Remove the plastic adhesive on the back of the adapter disc and adhere it to the end of the LiveScope transducer bottom shaft mount. Make sure you align the pegs on the back of the disc with the holes in the shaft mount.



- 3 Slide the LiveScope transducer onto the appropriately sized mounting knob.
- 4 Screw the mounting knob onto the bottom mount until the LiveScope transducer is loosely attached.
- 5 Adjust the angle of the LiveScope transducer as needed, and securely tighten the knob.

Mounting the Spy Gesture Remote

You can mount the Spy Gesture Remote in several different ways.

Each mount is designed so that you can easily remove the remote and place it in a different mount as needed.

- Fishing Rod Mount (*Gesture Remote Fishing Rod Installation*, page 4)
- Hat Clip Mount (*Mounting the Gesture Remote to a Clip*, page 4)
- Lanyard Mount (*Mounting the Gesture Remote to a Lanyard*, page 4)

Gesture Remote Fishing Rod Installation

The Spy pole includes multiple hardware options for you to install the gesture remote on your fishing rod.

You can use the grip-mounting kit that includes several rubber O-rings to install the remote on the grip of your fishing rod (*Mounting the Gesture Remote on a Fishing Rod Grip*, page 4).

You can use the pole mounting kit that includes zip ties for you to install the remote on the rod blank of your fishing rod (*Mounting the Gesture Remote to a Fishing Rod Blank*, page 4).

Mounting the Gesture Remote on a Fishing Rod Grip

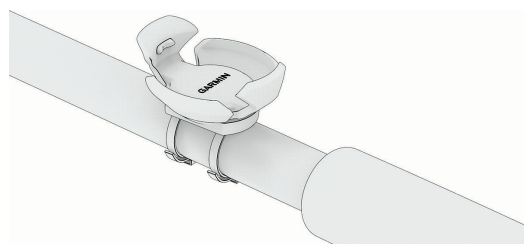
- 1 Locate the grip mount, the rubber damper, and the rubber bands.



- 2 Set the rubber damper against the back of the grip mount by aligning the holes together.
- 3 Place the grip mount where you want it on the grip of the fishing rod.
- 4 Attach a rubber band to one of the hooks on the back of the mount.
- 5 Wrap the rubber band around the rod and latch it onto the hook on the other side of the mount.
- 6 Repeat this process using the second rubber band and the other 2 hooks.
- 7 Press the remote into the mount until you hear a click.

Mounting the Gesture Remote to a Fishing Rod Blank

- 1 Locate the rod mount, zip ties, and rubber liner.



- 2 Slide a zip tie through each of the two slots on the back of the rod mount.
- 3 Set the rubber liner inside the zip ties.
- 4 Test the fit of the rubber liner around your rod blank.
- 5 If the rubber liner is too long to fit snugly around the rod blank, trim the ends off as needed with a pair of scissors.
- 6 Place the mount where you want it on the fishing rod blank.
- 7 Slide the end of each zip tie into the head and pull until they are tight.
- 8 Press the remote into the mount until you hear a click.

Mounting the Gesture Remote to a Clip

Using the clip mount, you can mount the remote to clothing, such as a shirt collar or hat brim.

- 1 Slide the clip mount onto your clothing.
- 2 Press the remote into the mount until you hear a click.

Mounting the Gesture Remote to a Lanyard

You can keep the gesture remote on the included lanyard using the lanyard mount.

- 1 Attach the lanyard mount to a lanyard of your choice.
- 2 Press the remote into the mount until you hear a click.

Installing the Spy Foot Control

You can control the Spy pole using the Spy foot control.

- 1 Identify a surface on your vessel where there is room to install the foot control.
- 2 Use the foot control mounting plate as a template to mark the pilot holes at the mounting location.
- 3 Remove the mounting plate and drill the marked pilot holes.

NOTICE

You should not drill through the mounting plate. Drilling through the mounting plate may result in damage.

- 4 Use the two included M4.2 x 16 mm screws to secure the mounting plate to your vessel.
- 5 Open the battery door on the bottom of the foot control and install two AA batteries.
- 6 Close the battery door.
- 7 Set the foot control down over the mounting plate and push it away from you to secure it on the mounting plate.
You will hear a click when the foot control is secured to the mounting plate.

Spy Heading Sensor

The included heading sensor provides heading information to the Spy pole system to enable precision control modes for the device.

If you already have a reliable NMEA 2000® heading sensor connected to a Garmin® chartplotter, you do not need to install the Spy heading sensor. The advanced control modes for the Spy pole will work as intended with your existing heading sensor.

Heading Sensor Mounting Considerations

NOTICE

Do not install or store the heading sensor near strong magnets, including speakers. A strong magnetic field can damage the sensor.

You can install the heading sensor with the cable either routed through the side of the sensor housing, or with the cable routed through the mounting surface under the sensor.

For best performance, observe these considerations when selecting a mounting location.

- You should not mount the sensor near known ferrous metal objects, such as a toolbox.
- You should not mount the sensor near the Spy Pole motor or a trolling motor. However, it can be powered from that same source.
- The sensor is not a GPS device, and is not required to have a clear view of the sky.
- You should use a handheld compass to test for magnetic interference in the area where the sensor is to be mounted. You should make sure that all motors and other devices are on during the test.
If the needle on the handheld compass moves when you hold it where you intend to mount the sensor, magnetic interference is present. You must choose another location and test again.
- Mounting screws are provided with the sensor. If you use mounting hardware other than the provided screws, the hardware must be made of quality stainless steel or brass material to avoid magnetic interference with the sensor.
- The sensor can be mounted in any orientation, and is not required to be installed in the same horizontal plane as the boat.

Mounting the Heading Sensor

If you plan to use your own mounting hardware instead of the included screws, you should test the hardware for magnetic interference before you begin mounting the heading sensor.

You can mount the heading sensor with the power cable routed along the mounting surface or with the cable routed through the mounting surface beneath the sensor.

- 1 Select a mounting location (*Heading Sensor Mounting Considerations*, page 4).
- 2 If you plan to route the cable through the mounting surface, use an appropriately sized drill bit to drill the cable passthrough hole into the mounting surface at the selected mounting location.

Make sure to account for the fuse holder when choosing the size of hole to drill.

- If necessary, route the cable through the cable passthrough hole.
- Use the heading sensor as a template to mark out two pilot holes.
- Using a bit appropriate for the mounting surface and mounting hardware, remove the heading sensor and drill two pilot holes.
- Secure the sensor to the mounting surface, observing these guidelines for best performance:
 - Ensure you do not overtighten the mounting screws. You should tighten the screws enough to keep the sensor in place, but not so tight that they may strain the device housing.
 - Apply the same amount of force to each mounting screw as you install them.
 - You should install the mounting screws perpendicular to the mounting surface (not at an angle). The heads of the screws should rest in the center of the grooves.
- If you routed the cable through the mounting surface, fill the cable hole in the side of the sensor with marine sealant (optional).

Connecting the Heading Sensor to Power

WARNING

When connecting the power cable, do not remove the inline fuse holder. To prevent the possibility of personal injury or product damage caused by fire or overheating, the appropriate fuse must be in place as indicated in the product specifications. Connecting the power cable without the appropriate fuse in place voids the product warranty.

You should connect the red wire to the power source through the ignition or another manual switch to turn the device on and off with other electronics to avoid battery drain.

- Route the power cable to the power source.

If you need to extend the power cable, you must use 22 gauge wire connected to the heading sensor.
- Connect the red power wire to the ignition or another manual switch, and connect the switch to the positive (+) battery terminal.
- Connect the black wire to the negative (-) battery terminal or to ground.

Specifications

Spy Pole Specifications

Weight (motor, mount, and cables)	42 in. model: 4.1 kg (9 lbs) 49 in. model: 4.24 kg (9.35 lbs)
Operating temperature	From -5° to 55°C (from 32° to 131°F)
Storage temperature	From -40° to 85°C (-40° to 185°F)
Power cable length	2 m (6.6 ft)
Input voltage	From 10 to 45 Vdc
Input amperage	1.5 A RMS 7 A Peak
Fuse information	8 A (included)
Power usage	Off: <10 mW Typical: 18 W Max: 70 W
Radio frequency	2400 - 2483.5 MHz @ <20 dBm nominal
Water rating	IEC 60529 IPX7The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to www.garmin.com/water-rating .
Compass safe distance	48 cm (19 in.)

Spy Foot Control Specifications

Dimensions (W×H×D)	198 x 147 x 46 mm (7.8 x 5.8 x 1.8 in.)
Weight (without batteries)	1 lb 1 oz (0.48 kg)

Operating temperature	From -15° to 55°C (5° to 131°F)
Storage temperature	From -40° to 85°C (-40° to 185°F)
Battery type	2 AA (not included)
Battery life	1 full season, typical use
Radio frequency	2400 - 2483.5 MHz @ <20 dBm nominal
Water rating	IEC 60529 IPX7 ¹
Compass-safe distance	12.5 cm

Spy Gesture Remote Specifications

Dimensions (W×H×D)	32 mm diameter x 13 mm thick (1.25 in. diameter x 0.5 in thick)
Weight (with included battery)	14 g (0.5 oz)
Operating temperature	From -15° to 55°C (5° to 131°F)
Battery type	1 CR2032 (included)
Battery life	1 full season, typical use
Radio frequency	2400 - 2483.5 MHz @ <20 dBm nominal
Water rating	IEC 60529 IPX7 ²
Compass-safe distance	2.5 cm

Spy Heading Sensor Specifications

Dimensions (W×H×D)	90 x 50 x 25 mm (3.5 x 2 x 1 in.)
Weight	122 g
Operating temperature	From -15° to 70°C (5° to 158°F)
Storage Temperature	From -40° to 85°C (-40° to 185°F)
Input Voltage	From 10 to 45 Vdc
Fuse Information	1 A, fast-acting AGC type (included)
Power Usage	Off: <10 mW Typical: 0.1 W Max: 5 W
Radio frequency	2400 - 2483.5 MHz @ <20 dBm nominal
Water rating	IEC 60529 IPX7 ³
Compass-safe distance	2.5 cm

Using the Spy Pole

After you have installed the Spy pole, you must make sure it is connected to your other Garmin® devices and properly configured.

- Locate the included *Spy Pole Quick Start Manual* inside the box.
- Follow the instructions to finish setting up your Spy pole and prepare it for use.

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¹ The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to www.garmin.com/waterrating.

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