



PINGBEAM SONAR INSTALLATION GUIDE

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PART I Safety and Preparation



SAFETY WARNING

- Follow all standard safety precautions and best practices to ensure safe operation.
- Sonar technology enhances underwater awareness but does not replace visual navigation — always operate your vessel responsibly.
- Improper installation or maintenance may cause equipment damage or personal injury. Carefully follow all setup instructions.
- For optimal performance and to prevent damage, adhere strictly to this guide. If you need assistance, contact Accuphy Support.



TRANSDUCER WARNING

- Do not leave the transducer powered on while out of the water for extended periods. The transducer uses water as a heatsink for its embedded processor.
- Do not bypass the Wi-Fi Router when connecting power to the transducer. Applying a voltage higher than 18V directly to the transducer may cause permanent damage, which is not covered under warranty.
- The transducer itself is designed to operate within a voltage range of 10-18V as stated in its specifications. Ensure proper setup to avoid damage.

INSTALLATION SUPPORT VIDEOS

You can view videos online for assistance when installing this device. You can access the videos by going to https://www.youtube.com/@Accuphy_Canada in your web browser or scan the QR code below.



Pre-Installation Requirements

Software Update

Keep your Accuphy Sonar App up to date by downloading the latest version from the Apple App Store or Google Play Store.

Firmware Update

To update the firmware on your PingBeam system, follow these steps

1. Connect to the Wi-Fi router and ensure the PingBeam transducer is powered on. Please refer to Part II and Part III for connectivity setup.
2. Open the Accuphy Sonar app on your device.
3. Navigate to Settings > Firmware Update.
4. Select the correct Port Number for your transducer.
5. Tap Update and wait for the process to be completed.
6. Power off for at least 5 seconds after Firmware Update complete, and power on again. Repeat step 1-3, to check Firmware information again, to make sure Firmware is up to date.

Installation Videos

Watch step-by-step videos by scanning the QR code on the previous page.

Tools and Parts

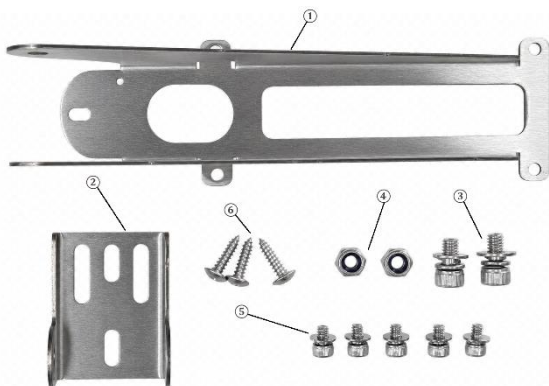
Required Tools

- Drill with an appropriate bit for the mounting surface
- Phillips screwdriver, Allen wrench and adjustable wrench
- Electrical tape or cable ties

Parts Inventory

Parts consists of:

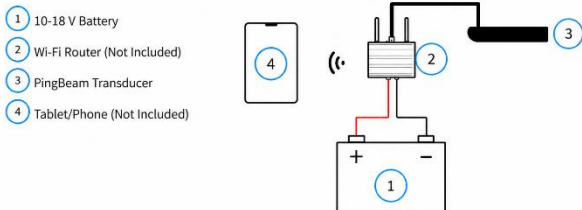
- Transducer Mount ① x 1
- Transom Bracket ② x 1
- M6x10 stainless steel Bolts with Washers ③ x 2
- M6 Lock Nuts ④ x 2
- M4x6 stainless steel Screws with Washers ⑤ x 5
- M4x16 self-tapping Screws ⑥ x 3



PART II Wiring Diagram (Quick Guide)

Refer to the installation diagram for installation overview.
Transducer mounting details are introduced later in Part IV.

Installation Diagram (Wi-Fi Router)



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PART III WiFi Router (Not Included) Installation Guidelines

Mounting The Router

1. Position the device at the desired mounting location and mark the pilot hole positions.
2. Drill a pilot hole in one corner.
3. Partially secure the device using one screw, then check the alignment of the remaining pilot holes.
4. If adjustments are needed, mark new pilot-hole locations and remove the device.
5. Drill the remaining pilot holes.
6. Secure the device firmly in place.

Powering and Connecting the Wi-Fi Router

Refer to PART II for the wiring quick guide.

The Wi-Fi router operates within an input voltage range of 10-18V and requires a minimum 6A current capacity for stable performance.

Setup Instruction

Connecting via Wi-Fi Router (Wireless Connection)

Power the Wi-Fi Router – Connect it to a compatible battery within the voltage range.

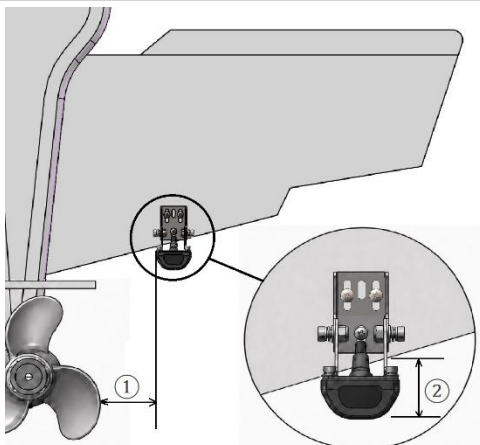
1. Connect the Transducer – Ensure the transducer is securely plugged into the Wi-Fi router.
2. Connect to Wi-Fi – On your iOS or Android device, go to Wi-Fi settings and select:
 - o Network (SSID): Accuphy_xxxx
 - o Password: 12345678
3. Once connected, launch the Accuphy Sonar app to begin using your sonar system.

If a power cable extension is required for your setup, use the appropriate wire gauge:

- 10 AWG (5.26 mm²) – Up to 4.6m (15ft)
- 8 AWG (8.36 mm²) – Up to 7m (23ft)
- 6 AWG (13.29 mm²) – Up to 11m (36ft)
- Built-in Resettable Fuse Protection

PART IV Transom Installation Guidelines

Mounting Location Consideration



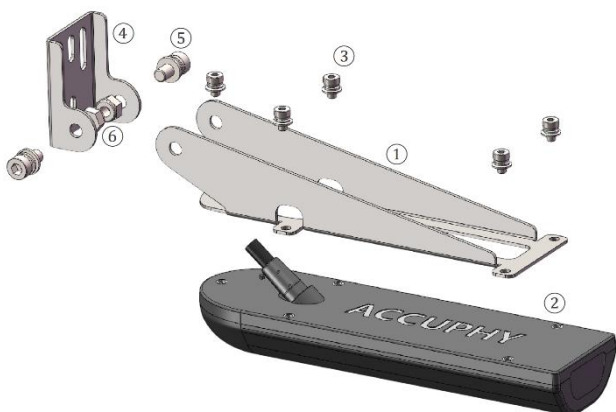
- The transducer should be mounted as close to the centerline of the transom as possible but at least 40cm from the propeller ①.
- The transducer should extend at least 10mm below the hull ②.



- The transducer should be mounted parallel to the waterline as illustrated above.
- If the propeller rotates clockwise when the boat moves forward, the transducer should be mounted on the starboard side.
- If the propeller rotates counterclockwise when the boat moves forward, the transducer should be mounted on the port side.
- The transducer must be in non-turbulent water for optimal performance. It should not be mounted behind strakes, struts, fittings, water intake or discharge ports, or any other structure that may generate air bubbles or create turbulent water flow.

Assembling the Transducer with the Transom Mount Bracket

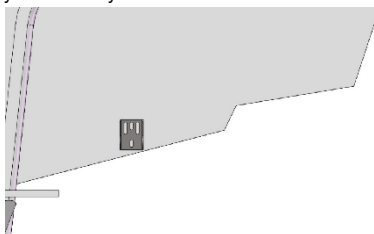
- Attach the mount ① to the top of the transducer ② with the included M4x6 screws with washers ③.
- Attach the mount to the bracket ④ with the M6x10 bolts with washers ⑤ and lock nuts ⑥.
- Note: The bolts should be tight enough to hold the transducer in place when the boat moves at high speed.



Installing the Transom Mount Hardware

NOTICE

- If you are mounting the bracket on fiberglass with screws, it is recommended to use a countersink bit to drill a clearance counterbore through only the top gel-coat layer. This will help to avoid cracking in the gel-coat layer when the screws are tightened.
- The cable connected to the transducer should not be cut. Cutting the cable voids your warranty.



1. Select a suitable mounting position on the transom (see "Mounting Location Considerations," page 5).
2. Cut out the mounting template.
3. Align the template vertically at the selected position and place its bottom corner against the edge of the transom.



4. Mark the centers of the three holes shown on the template.
5. Remove the template.
6. To prevent drilling too deeply, wrap tape around a 3 mm drill bit, 14 mm from its tip.
7. For a fiberglass transom, apply tape over each marked location to help prevent the gel coat from cracking.
8. Using the 3 mm bit, drill pilot holes approximately 14 mm deep at the marked positions.
9. Apply marine sealant to the supplied M4x16 self-tapping screws, then secure the transducer assembly to the transom.
10. Route the transducer cable to router or chartplotter

PART V Troubleshooting

1. Ensure Wi-Fi Connection is good
 - a. Check if Wi-Fi is properly connected to the router and the signal quality is reasonably good.
2. Keep the App and Firmware Up to Date
 - a. Always ensure that both the Accuphy app and transducer firmware are updated to the latest version.
3. If issues persist, try uninstalling and reinstalling the app.
4. Verify Battery Capacity
 - a. The battery must provide a minimum output current of 6A to ensure proper operation.
5. Check All Connections
 - a. Inspect power cable connections, transducer cable connections, and battery status.
6. If Issues Persist After Steps 1-5:
 - a. Power Cycle: Turn off the system completely, then restart it.
 - b. Restart the App: Force close the Accuphy app and reopen it.

Still Experiencing Issues?

- Contact Accuphy customer support for further assistance.

PART VI Specifications

ACCUPHY PINGBEAM SONAR SPECIFICATIONS

GENERAL PARAMETERS

DIMENSION	19.5 x 5.2 x 2.7 cm, or 5 X 3.9 X 0.9in
WEIGHT	0.6kg or 1lb 5 oz
TRANSDUCER CABLE LENGTH	6m / 20ft
TEMPERATURE RANGE	0°C to 40°C, or 32°F to 104°F

ELECTRICAL PARAMETERS

POWER INPUT	10-18 VDC
POWER USAGE	5W typical, 15W max

SONAR PARAMETERS

FREQUENCY	Traditional: 85/240 kHz(Chirp); Down Scan: 455 kHz (Chirp), 800 kHz (Chirp), 1000 kHz (Chirp); SideScan: 455 kHz (Chirp), 800 kHz (Chirp), 1000 kHz (Chirp);
TRANSMIT POWER	Traditional: 350 W; Down Scan/SideScan: 500 W
MAXIMUM RANGE/DEPTH	Traditional: 200 meters; Down Scan: 120 meters; SideScan: 150 meters