

Quad Scan Livescanner

Operating Instructions

1. System Overview

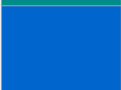
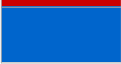
The Quad Scan Livescanner is a motorized transducer rotation system designed to sweep your forward-facing sonar across a wide arc automatically, or to precisely position it on demand. The unit mounts to your trolling motor assembly and rotates the transducer shaft under control of the foot pedal, the 10-button remote, or — with optional accessories — a Sync sensor or TrackCast remote.

The unit can operate in several modes, each indicated by the color of the arrow on the head unit. Understanding the arrow color at a glance is the fastest way to know what the unit is doing at any given moment.

NOTE: All Quad Scan units ship with the full 10-button remote and are Sync and TrackCast capable. Sync and TrackCast modes require their respective optional accessories to function — the unit will enter these modes without the hardware present, but no useful motion will result.

2. Arrow Color Reference

The arrow on the Quad Scan head unit changes color to indicate the current operating mode. Always check the arrow color before operating the unit to confirm it is in the expected mode.

	Arrow Color	Mode
	Yellow	Manual Mode — unit responds directly to pedal and remote directional inputs
	Red	Port Scan — unit automatically scans the left half of the allowed range
	Green	Starboard Scan — unit automatically scans the right half of the allowed range
	Teal	True Scan — unit automatically scans the full allowed range
	Blue	Sync Mode — unit mirrors the heading of the trolling motor (requires Sync sensor)
	Orange	TrackCast Mode — unit heading is controlled by the TrackCast remote (requires TrackCast remote)
	Flashing Red	Limp Mode — sensor malfunction failsafe; position tracking disabled
	Flashing Blue	Remote Program Mode — unit is waiting to pair a new remote

3. Controls

3.1 Foot Pedal

The foot pedal unit contains two distinct pedals — left and right — and an **ON/OFF speed knob** on the top of the unit. Rotate fully counter-clockwise until it clicks to power off, and rotate clockwise to power on and set speed. The speed set by the knob is the baseline speed used for all pedal inputs.

Pedal behavior changes depending on the current mode:

Input	Manual Mode	Any Auto Scan Mode
Left pedal — press and hold	Unit rotates counter-clockwise (left) until pedal is released or maximum left position is reached	Exits scan mode and returns to manual mode
Right pedal — press and hold	Unit rotates clockwise (right) until pedal is released or maximum right position is reached	Exits scan mode and returns to manual mode
Both pedals — momentary press (order matters)	Press right pedal first: enters Sync mode. Press left pedal first: enters True Scan mode.	Exits scan mode and returns to manual mode

NOTE: In all auto scan modes (Port Scan, Starboard Scan, True Scan, Lure Lock, Sync, and TrackCast), pressing either pedal individually will exit that mode and return to manual mode. Pressing both pedals simultaneously while in any scan mode also exits to manual mode. In manual mode, pressing both pedals enters Sync or True Scan depending on which pedal is pressed first — right pedal first enters Sync mode, left pedal first enters True Scan mode.

3.2 10-Button Remote

The 10-button remote provides full control over all unit modes and speed. Buttons 9 (S) and 10 (T) activate Sync and TrackCast modes respectively — see Sections 5 and 6 for full details on those modes.

Button	Label	Function
1	Up Arrow	Increase rotation speed (persistent until changed or power cycled)
2	Down Arrow	Decrease rotation speed (persistent until changed or power cycled)
3	Left Arrow	Manual: nudge left 0.5 sec at current speed Any scan mode (except Lure Lock): return to manual Lure Lock: shift scan window left
4	Right Arrow	Manual: nudge right 0.5 sec at current speed Any scan mode (except Lure Lock): return to manual Lure Lock: shift scan window right
5	Lure Lock	Manual or any scan mode: enter Lure Lock (30° default window, centered on current position) Any scan mode: return to manual
6	Left Circled Arrow	Manual: enter Port Scan mode Lure Lock: reduce scan window (minimum ~10°)
7	Right Circled Arrow	Manual: enter Starboard Scan mode Lure Lock:

		expand scan window (up to full ~340° range)
8	A	Manual: enter True Scan / All scan mode: return to manual
9	S	Toggle Sync mode on/off (requires Sync sensor — see Section 5)
10	T	Toggle TrackCast mode on/off (requires TrackCast remote — see Section 6)

NOTE: Speed changes made via the remote Up/Down arrows override the foot pedal speed knob setting, and vice versa — whichever control was used most recently determines the active speed.

4. Operating Modes

The Quad Scan has five standard operating modes accessible without optional accessories. All modes operate within the unit's allowed rotation range of approximately 340°. This range limit exists to protect the transducer cable from wrapping around the shaft.

⚠ WARNING: Never attempt to force the unit beyond its rotation limits. The range boundaries are set to prevent transducer cable damage.

4.1 Manual Mode

Arrow Color: Yellow

Manual mode is the default operating mode on power-up. In manual mode, the unit only moves in response to direct user input — it does not scan automatically.

- **Foot pedal:** Press and hold the left pedal to rotate counter-clockwise, or the right pedal to rotate clockwise. The unit stops when the pedal is released or the end of the allowed range is reached.
- **Remote left/right arrows:** Each press nudges the unit in that direction for 0.5 seconds at the current speed — useful for fine adjustments without holding a pedal.

4.2 Port Scan Mode

Arrow Color: Red

Port Scan mode automatically sweeps the transducer back and forth across the left (port) half of the allowed range. This is useful when you are working structure or fish located to the port side of the boat.

- Enter from manual mode by pressing the **Left Circled Arrow** button on the remote.
- Exit by pressing any pedal or any directional/mode button on the remote.

4.3 Starboard Scan Mode

Arrow Color: Green

Starboard Scan mode automatically sweeps the transducer across the right (starboard) half of the allowed range. Use this when working structure or fish located to the starboard side.

- Enter from manual mode by pressing the **Right Circled Arrow** button on the remote.
- Exit by pressing any pedal or any directional/mode button on the remote.

4.4 True Scan Mode

Arrow Color: Teal

True Scan mode sweeps the transducer continuously across the full allowed range (~340°), providing maximum sonar coverage. This is the best mode for locating fish when you don't yet know where they are.

- Enter from manual mode by pressing the **A** button on the remote.
- Exit by pressing any pedal individually, or any directional/mode button on the remote.

4.5 Lure Lock Mode

Arrow Color: Teal

Lure Lock mode scans a narrow window centered on the position the unit was pointing when the mode was entered. This is ideal for staying locked onto a specific target — a suspended fish, a piece of structure, or a lure — while still sweeping slightly to maintain a live image or help you locate your bait.

- Enter from any mode by pressing the **Lure Lock** button (button 5) on the remote. The unit begins scanning a default 30° window centered on the current transducer position.
- **Left Circled Arrow** (button 6): Narrows the scan window. Minimum window is approximately 10°.
- **Right Circled Arrow** (button 7): Widens the scan window. Maximum window is the full allowed range (~340°).
- **Left/Right Arrow** buttons (3 and 4): Shift the entire scan window left or right without changing its width.
- Exit by pressing any pedal, or any mode button other than the window-adjust buttons.

TIP: Start with the default 30° window and widen or narrow it based on how fast your target is moving relative to the boat. A tighter window updates the image faster; a wider window gives more spatial context.

5. Sync Mode *(Optional Accessory)*

Sync mode causes the Livescanner to automatically mirror the heading of your trolling motor. As you steer the trolling motor, the transducer follows, keeping your sonar image pointed in the same direction as the motor without any manual input.

Sync mode requires the optional Sync sensor, which mounts to the trolling motor brace via the Sync-equipped bounce brace. The bounce brace includes a mounting point for the sensor and a geared bushing that tracks trolling motor rotation and transmits that heading data to the Livescanner unit.

5.1 Entering and Exiting Sync Mode

Arrow Color: Blue

- Press the **S** button (button 9) on the remote to enter Sync mode. The arrow turns blue.
- Press **S** again to exit Sync mode and return to manual mode.
- Pressing any pedal will also exit Sync mode and return to manual mode.

NOTE: If the Sync sensor is not installed, the unit will enter Sync mode (arrow turns blue) but will not match the trolling motor heading, as there is no heading signal to follow. Ensure the Sync sensor is properly connected to use this mode.

6. TrackCast Mode *(Optional Accessory)*

TrackCast mode allows you to aim your forward-facing sonar transducer by physically pointing your fishing rod. The TrackCast remote mounts to your rod or is handheld and uses a dual-action momentary toggle — positioned under your thumb — to relay rod or hand movement to the Livescanner. Rotating the rod slowly

results in slow transducer movement; Rotating it quickly results in fast movement. The direction of rod movement determines the direction of transducer rotation.

The TrackCast remote toggle has two distinct actions:

- **Press down:** Gesture control is active only while the toggle is held. Release the toggle to stop the transducer.
- **Press up (latch):** Gesture control is latched on. The transducer continues to follow rod movement until the toggle is pressed again, any button on the 10-button remote is pressed, or a foot pedal is pressed.

NOTE: The TrackCast remote has a rechargeable internal battery that cannot be removed. The battery has a fairly long life and should last several days, however charging every day via the USB-C port on the front of the TrackCast remote should guarantee uninterrupted use. The remote will power itself off to conserve battery if the remote doesn't detect motion for 5 minutes, but to force the remote to sleep simply press down on the switch 5 times quickly. The light will flash GREEN/RED quickly and then power off. While the remote is off it still consumes a very small amount of power and should be charged before use if it has been stored for longer than one week. The light will pulsate RED when the remote is on and charging and will turn GREEN when charging is complete.

6.1 Entering and Exiting TrackCast Mode

Arrow Color: Orange

- Press the **T** button (button 10) on the 10-button remote to enter TrackCast mode. The arrow turns orange.
 - Press **T** again to exit TrackCast mode and return to manual mode.
 - Pressing any foot pedal or any button on the 10-button remote will also exit TrackCast mode.
- NOTE:** If the TrackCast remote is not present, the unit will enter TrackCast mode (arrow turns orange) but the transducer will not move. Ensure the TrackCast remote is within range before enabling this mode.

6.2 Switching from TrackCast to Lure Lock

Pressing the **Lure Lock** button (button 5) while in TrackCast mode immediately enters Lure Lock mode with the default 30° scan window centered on the transducer's current position. This allows you to cast to a target you've aimed at with the rod and then lock the sonar onto that spot without any further adjustment.

TIP: Use this TrackCast-to-Lure Lock workflow: aim with the rod to position the transducer on your target, press Lure Lock to pin the sonar on that spot, then fish it. You can widen or narrow the Lure Lock window from there as needed.

7. Power-On Special Functions

Holding a pedal input while powering the unit on activates one of three special functions. These are accessed by holding the pedal before applying power and continuing to hold until the unit has completed its startup.

Hold at Power-On	Mode / Function	Description
Left pedal	Limp Mode	Disables position sensing and end-of-range limits. Unit rotates freely while pedal is held. Use only if a sensor malfunction prevents normal operation. Transducer cable can wrap and be damaged — monitor carefully.
Right pedal	Remote Program	Places the unit in pairing mode (flashing blue arrow). Press any button on the remote to pair it. Only one remote can be paired at a time — pairing a new remote removes all previous pairings.

⚠ WARNING: Use Limp Mode only when necessary to recover from a sensor malfunction. The unit will not stop at the normal range limits in Limp Mode, and the transducer cable can wrap around the shaft and be damaged if the unit is allowed to rotate too far. Monitor rotation carefully and release the pedal before reaching a cable limit.

8. Remote Pairing

The remote is paired to the unit at the factory and should work out of the box. If you need to pair a replacement remote, or if the remote has lost its pairing, use the Remote Program procedure below.

- Hold the **right pedal** while powering on the unit. Continue holding until the arrow flashes blue, indicating the unit is in Remote Program mode.
- Press any button on the remote you wish to pair. The unit will register the remote's signature and return to normal operation. Sometimes the unit won't catch the first button press so keep pressing until the blue flashing stops, indicating the remote signature has been recorded.

NOTE: Only one remote can be paired to the unit at a time. Pairing a new remote automatically removes all previously paired remotes. If you use multiple remotes, you will need to re-pair them each time you switch.