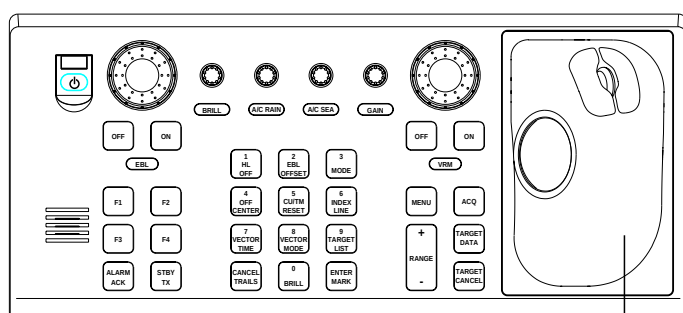


FAR-2xx7 SERIES MARINE RADAR

Operator's Guide

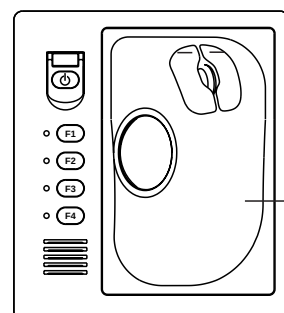
Complies with
IMO MSC.192(79)

The purpose of this Operator's Guide is to provide the basic operating procedures for this equipment. For detailed information, see the Operator's Manual. This manual describes operating procedures using the trackball module, since it is common to both types of control units.



RCU-014

Trackball
Module



RCU-015

Trackball
Module

Control	Description
POWER	Turn the system on and off.
EBL and VRM controls	Adjusts EBL and VRM, respectively.
EBL ON, EBL OFF	Turns the EBLs on and off, respectively.
VRM ON, VRM OFF	Turns the VRMs on and off, respectively.
F1-F4	Executes menu short cut assigned.
ALARM ACK	Acknowledges alert.
STBY TX	Toggle between stand-by and transmit.
BRILL	Adjust screen brilliance of FURUNO-supplied monitor.
A/C RAIN	Reduce rain clutter.
A/C SEA	Reduce sea clutter.
GAIN	Adjust the sensitivity of the radar receiver.
HL OFF	Temporarily erase the heading line while pressed.
EBL OFFSET	Activate, deactivate the offset EBL. Switch coordinate polarity (menu operation).
MODE	Select a presentation mode.
OFF CENTER	Shift on-screen position of your ship.
CU/TM RESET	True motion: Shift position of your ship 75% of effective radius in stern direction. Course-up: Put course at top of screen.
INDEX LINE	Turn the parallel index lines on and off.
VECTOR TIME	Select vector time (length).
VECTOR MODE	Select vector mode, relative or true.
TARGET LIST	Display data for all tracked targets (AIS and TT).
CANCEL TRAILS	Cancel all target trails. In menu operation it clears a line of data.
BRILL/O	Select display brilliance.
ENTER MARK	Enter marks; terminate keyboard input.
MENU	Open and close menu.
ACQ	Acquire a target for TT.
RANGE	Select radar range.
TARGET DATA	Display or erase target data for TT or AIS target chosen with the trackball. For AIS, change sleeping target to activated target.
TARGET CANCEL	TT: Cancel tracking on TT. AIS: Sleep an activated target.



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How to Tune Manually

1. Select the RANGE box then push the left or right button as appropriate to select the 48-mile range.
2. If using automatic tuning, select TUNE AUTO at the top of the screen then push the left button to show TUNE MAN.
3. Put the arrow on the tuning bar area in the TUNE box.
4. Roll the scrollwheel to adjust tuning. The best tuning point is where the bar graph swings maximum.

How to Select a Display Mode

1. Select the DISPLAY MODE box.
2. Push the left button to select a mode: radar, radar + plotter, or anchor watch.

How to Select a Presentation Mode

1. Select the PRESENTATION MODE box.
2. Push the left button to select a mode.

How to Select a Range

1. Select the RANGE box.
2. Push the right or left button to select a range.

How to Adjust Sensitivity

1. Select the gain level indicator.
2. Roll the scrollwheel downward to increase the gain, or roll it upward to decrease the gain.

How to Adjust Sea Clutter Automatically

1. If using manual sea clutter, select SEA MAN then push the left button to show SEA AUTO.
2. Put the arrow on the A/C SEA level indicator.
3. Roll the scrollwheel downward to increase the A/C SEA, or roll it upward to decrease the A/C SEA.

How to Adjust A/C RAIN

1. Put the cursor on the A/C RAIN level indicator.
2. Roll the scrollwheel downward to increase the A/C RAIN or upward to decrease the A/C RAIN.

How to Reduce Interference

1. Select the PICTURE box.
2. Push the right button to show the PICTURE menu.
3. Select 1 INT REJECT then push the scrollwheel.
4. Roll the scrollwheel to select a rejection level then push the scrollwheel.
5. Push the right button to close the menu.

How to Measure the Range

1. Select the VRM1 or VRM2 box.
2. Push the left button to turn on the VRM.
3. Push the left button again.
4. Roll the trackball or the scrollwheel to align the active VRM with the inner edge of the target.
5. Push the left button.

To erase a VRM, select the non-active VRM readout box then push the left button several seconds until the VRM disappears from the screen.

How to Measure the Bearing

1. Select the EBL1 or EBL2 box.
2. Push the left button.
3. Push the left button again.
4. Roll the trackball or the scrollwheel to bisect the target with the EBL.
5. Push the left button.

To erase an EBL, select the non-active EBL readout box then push the left button several seconds until the EBL disappears from the screen.

<TT OPERATION>

Activate, Deactivate TT

1. Select the TT ACQ MODE box.
2. Push the left button to show OFF, MAN or AUTO MAN as appropriate.

How to Acquire a Target Automatically

1. Select the TT ACQ MODE box then push the right button.
2. Select 1 TT SELECT then push the left button.
3. Select an automatic acquisition condition then push the left button.
4. Push the right button to close the menu.

How to Acquire a Target Manually

1. With the cursor inside the effective display area, roll the scrollwheel to show "ACQ" in the guidance box.
2. Place the cursor on the target to acquire.
3. Push the left button to acquire the target.

How to Cancel Tracking a TT

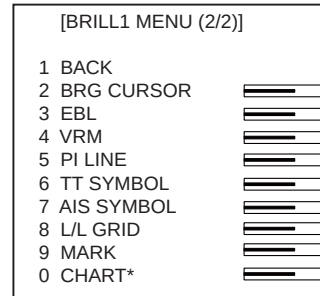
1. With the cursor inside the effective display area, roll the scrollwheel to show "TARGET CANCEL / EXIT" in the guidance box.
2. Put the cursor on the TT or reference target to cancel tracking.
3. Push the left button.
4. To finish, push the right button.

How to Display Target Data

1. With the cursor inside the effective display area, roll the scrollwheel to show "TARGET DATA & ACQ / CURSOR MENU" in the guidance box.
2. Roll the trackball to put the cursor on a TT then push the left button.

How to Adjust Symbol Brilliance

1. Select the BRILL box then push the right button.
2. Select 0 NEXT then push the left button.



* Not available on IMO type

3. Select 6 TT SYMBOL then push the scrollwheel or the left button.
4. Roll the scrollwheel to adjust brilliance.
5. Push the right button twice to close the menu.

Vector Motion and Length

1. Select VECTOR TRUE or VECTOR REL (whichever is displayed) at the right side of the screen.
2. Push the left button to display VECTOR TRUE or VECTOR REL as appropriate.
3. Select the vector time box.
4. Push the left button to display a time.

CPA and TCPA Conditions

1. Select the CPA limit box.
2. Push the left button to select the CPA value.
3. Select the TCPA limit box.
4. Push the left button to select a TCPA value.