Searchlight Sonar
JFP-185BB

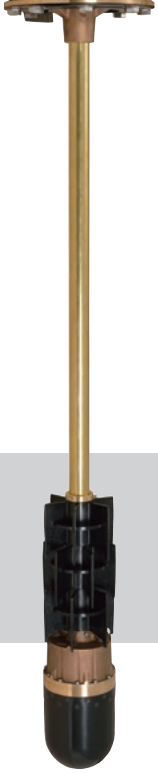
Flexible frequency selection to give you better potential for a more profitable catch

- **Digital signal processing for optimized short and longe range detection**
- **Multiple display modes available to fit various fishing scenes**
- **Connect your own display (VGA resolution)**
- **Backlit icon-based keyboard supports intuitive operation**
- **Switch instantly between functions through six preset memory keys**

Japan Radio Co., Ltd.

Advanced technology

The JFP-185 searchlight sonar uses a wide band transducer. The most suitable output frequency in a band from 130 to 210 kHz can be selected in 0.1 kHz steps, depending on the fishing method and the target species in various depths. The flexible selection of frequencies also enables the fishing vessel to operate at a different frequency than those of surrounding vessels.

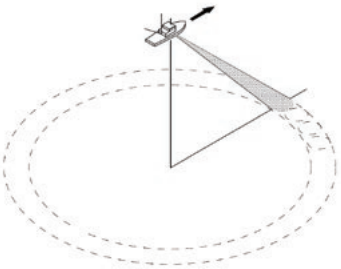


- Black box design
- Multiple display modes
- Space saving hoist unit
- Easy operation
- Data transfer by USB
- Enhanced presentation modes
- Selectable frequencies
- Advanced keyboard
- Remarkable scanning speed
- Primary/secondary display (VGA output)

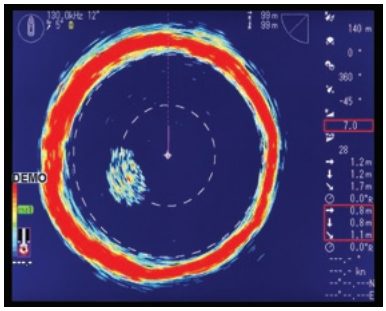
Various display modes

The sonar integrates multiple display modes, facilitating a valuable working environment by illuminating the underwater scene with a beam of sonic energy rotating through 360 degrees. The JFP-185 provides a range of display modes to suit the search task.

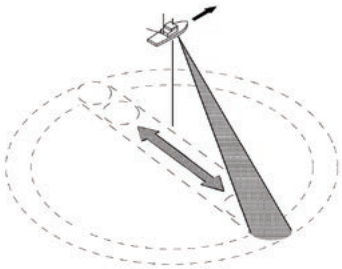
Sonar



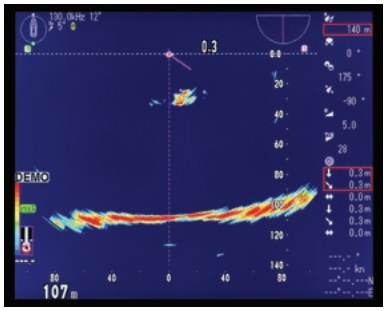
Searching around the vessel



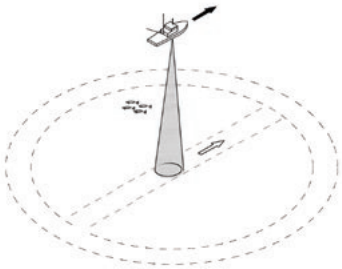
Bottom scan



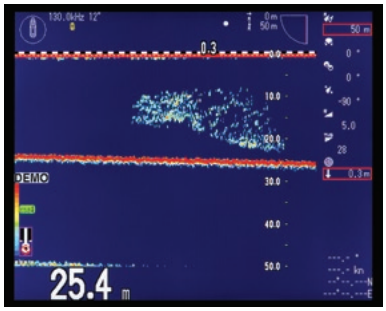
Reflected echo from seabed



Echo sounder



Displaying image as fish finder



Black box configuration

The searchlight sonar consists of a compact processor, dedicated keyboard and high performance transducer, allowing for a flexible installation approach in confined spaces. You can choose your own display, as long as it supports VGA.

Optimum tilting

The center of the beam can be set in 1-degree increments from 5 degrees from the horizontal, to 90 degrees from the sea surface. The transducers ultra sonic beam sweeps a specific sector and bearing. When pointing straight down, the beam will give a high definition picture of the sea floor. As the beam moves from the perpendicular to the horizontal, bottom definition reduces and fish detection improves.

User friendly keyboard

With the icon based keyboard operation full control of the searchlight sonar is made easy. The onetouch menu keys are conveniently backlit and are highlighted with the green color once selected, making operation extremely useful in low light settings.

In the box

Hull unit (transducer)
Processor
Keyboard
Position alarm
Cables
Installations materials
Manuals (Engish)

Accessories

Remote control
Tanks (PVC, FRP)
Shaft guide (FRP)
Power supply
Junction box
Display

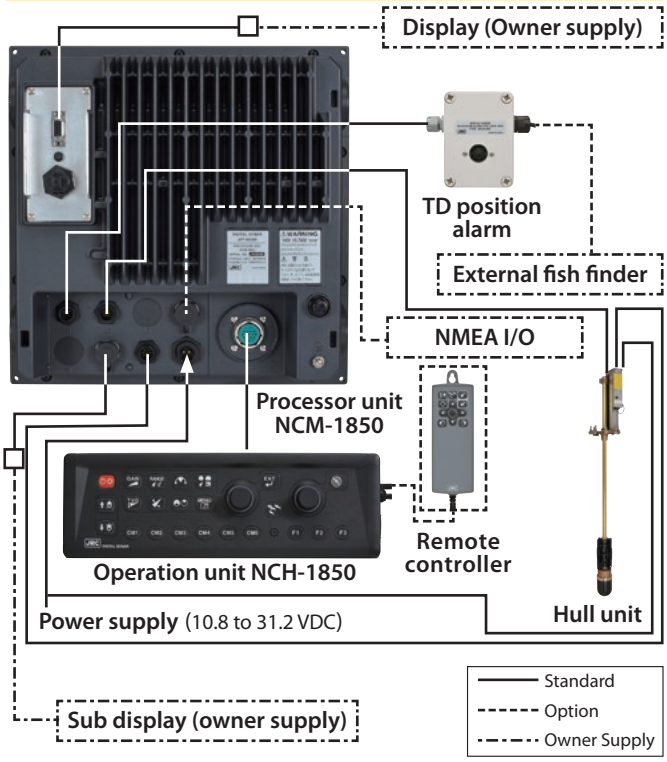
Tech Specs

Output power (RMS)	1.5 kW
Output frequency	130 to 210 kHz (0.1 kHz step)
Tilt angle	–90 to 5° (1° step)
Beam angle	8 to 12°
Display resolution	640×480 (VGA)
NMEA ports	Total 1: input/output
Power supply	10.8 to 31.2 VDC
Power consumption	70 W or less (24 VDC)

Specifications

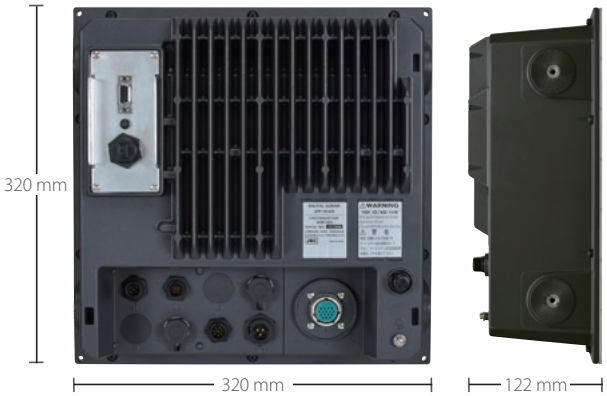
Model		JFP-185BB										
Output power (RMS)		1.5 kW										
Output frequency		130 to 210 kHz										
Tilt angle		−90 to +5° (1° step)										
Beam angle		8 to 12°										
TD stroke		150 to 380 mm (Recommended value 150 mm)										
Display type		Owner supply (VGA compatible output through RGB connector)										
Basic ranges		10 to 1000 m, 30 to 3000 ft, 10 to 600 fm, 10 to 700 l.fm (8 ranges can be set to users choice)										
Range units		m, ft, fm, l.fm										
Scanning sector angles	Sonar mode	5° step : 5°, 25°, 45°, 85°, 125°, 165°, 205°, 360° 10° step : 10°, 30°, 50°, 90°, 130°, 170°, 210°, 360° 15° step : 15°, 45°, 75°, 105°, 135°, 165°, 225°, 360° 20° step : 20°, 60°, 100°, 140°, 180°, 220°, 260°, 360°										
	Bottom scan mode	3° step : 3°, 27°, 45°, 63°, 93°, 17°, 147°, 177° 5° step : 5°, 25°, 45°, 65°, 95°, 115°, 145°, 175°										
360° Scanning time (extracts)	Scanning range (m)	20	40	60	80	100	120	160	180	200	240	400
	Scanning time (sec.) 5° step	6.3	8	10	11.8	14	15.8	19.5	21.6	23.5	27.5	43.3
	Scanning time (sec.) 10° step	3.7	4.7	5.6	6.5	7.6	8.6	10.6	11.5	12.5	14.4	22.4
	Scanning time (sec.) 15° step	3.3	3.7	4.3	4.9	5.7	6.4	7.9	8.2	8.9	10.3	15.7
	Scanning time (sec.) 20° step	3.3	3.4	3.8	4.2	4.8	5.2	6.4	6.6	7.3	8.1	12.2
Bearing center		1° step										
Presentation modes		Sonar, Off-center, Bottom scan, Echo sounder										
Off-center		Fore, Back, Left, Right										
Target lock		Reverse, Horizontal, Horizontal + vertical, Maker + horizontal, Maker + horizontal + vertical										
Presentation colors		8 colors, 16 colors										
Functions		TVG, Color rejection, Dynamic range, Compass display, Pulse width, Output power control, Noise rejection, A-scope, CM key, Frequency bandwidth, Image correction, Bearing display, TD auto up, etc.										
Language		English, Japanese, Korean, Traditional Chinese, Vietnamese, Spanish, Thai										
Input data format and sentences		NMEA 0183 : GGA, GLL, HDG, HDM, HDT, RMC, VTG, ZDA										
Output data format and sentences		NMEA 0183 : DBT, DPT, GGA, GLL, MTW, RMC, TLL, VTG, ZDA										
NMEA ports		Total 1 : input / output										
Power supply		Processor unit : 10.8 to 31.2 VDC, Hull unit : 10.8 to 31.2 VDC										
Power consumption		Processor unit : 70 W or less (24 VDC), Hull unit : 70 W or less (24 VDC)										
Environmental condition		Operating temperature : −15 to +55 °C										

Configulation



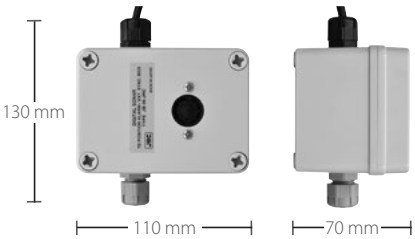
∗1 : Owner supply

Dimensions

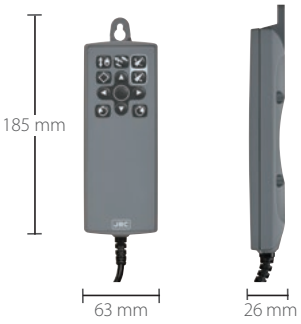


Processor unit NCM-1850 Mass : 5.1 kg

Operation unit NCH-1850 Mass : 1.1 kg

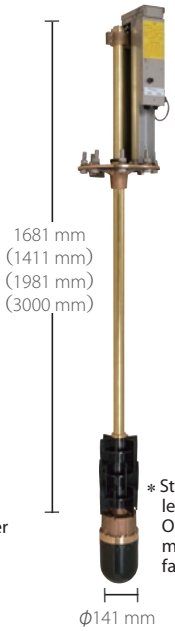


TD position alarm / Ext. Sync. Box JB-36 Mass : 0.3 kg



∗ Remote controller is an option

Remote controler∗ NCH-1851 Mass : 0.31 kg



∗ Standard length:1681 mm Other length models are factory option.

Hull unit NKF-1850 Mass : 44 kg

• Specifications may be subject to change without notice.

For further information, contact:

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