



ESR-140MkII

Affordable professional sonar

Compact design for easy installation



- ► Available Frequencies: 180 kHz, 200 kHz or 220 kHz
- ► Echo sounder mode and RGB monitor output (VGA) are available
- ► Remote controller, Audio kit and speaker are available as option

FEATURES

Easy Installation

Brilliant color LCD flat screen allows for installation anywhere, and with built-in flush mounting system installation is easy. You simply install screws at 4 corners from front side and cover with included screw covers. Plus the hoist / lower unit is made small and lightweight for easy carrying and installation.

High-speed Searchlight Sonar

The high-speed Searchlight Sonar beam scans sectors horizontal and vertical to search up to a 360 degree area around your vessel. This gives you optimum performance as the searching time is reduced and search omission is prevented to improve the operation efficiency.

Stabilizer function included in standard equipment

The performance of fish detection is improved by automatically correcting the direction of transducer affected by the boat fluctuation. Upper class functions are included in standard equipment.

Easy to operate switches

Set by turning knob and operate by pushing buttons. The simplified operation is accomplished by categorizing the operation system.

Target-lock function

CONNECTIONS

With this lock function, the azimuth and the elevation angle of the beam are controlled automatically to always display the targeted schools of fish on the screen.

Ring marker and cross cursor

The distance to schools of fish is accurately measured by the ring marker, and the distance and azimuth by the cross cursor.

Automatic storing of hoist/lower unit

By setting the boat speed in advance, when the boat speed exceeds the setting value, the transducer unit is stored automatically in order to prevent damages.

External monitor Display unit Remote Navigation equipment Controller ESR-140MkII Audio kit Speaker Power rectifier PS-010 Hoist equipment Base flange Tank 100 / 115 VAC 200 / 230 VAC 20 to 30 VDC Transducei Hoist / Lower unit

SPECIFICATIONS				
Model		ESR-140MkII		
Display size / type		10.4-inch color LCD		
Display resolution		640 x 480 pixels		
Output Frequency		180 kHz type, 200 kHz type and 220 kHz type*		
Power output		800 W		
Tilt angle		+5° to -90° (variable with 1° step)		
Hoist stroke		120 to 200 mm		
Presentation colors		8 image colors (selectable from 4096 colors on color palette)		
Presentation modes		Sonar, Off center, Bottom scan, Echo sounder		
Off-centering		Fore, Back, Left, Right (Movable 50% of radius from the center of effective screen)		
Target lock		Horizontal, Horizontal + vertical, Automatic track, Automatic track with tilt control		
Distance unit		Meter, Fathom, I.Fathom, Feet		
Scanning range		10 to 300 m, 10 to 200 fathom / I.fathom, 50 to 1000 ft		
Scanning sector	Sonar mode	5° step: 5° 25° 45° 85° 125° 165° 205° 360° 10° step: 10° 30° 50° 90° 130° 170° 210° 360°		
angle	Bottom scan mode	3° step: 3° 27° 45° 63° 93° 117° 147° 177° 5° step: 5° 25° 45° 65° 95° 115° 145° 175°		
360° scanning	Scanning range (m)	10 40 80 100 160 200 300		
time (extracts)	Scanning time (sec)	5° step: 4.2 7.1 10.9 12.8 18.6 22.4 32.0 10° step: 3.7 5.1 7.0 7.0 10.9 12.8 17.6		
Input data format and sentences		NMEA 0183 (GGA, GLL, VTG, HTW)		
Functions		TVG (4 types), Pulse selection (3 types), Color rejection, Dynamic range (3 levels), Compass display, interference rejection, Bow compensation, Out trigger, RGB Monitor output (VGA), Audio (option)		
Power supply		20 to 30 VDC		
Power consumption		80 W at 24 VDC		

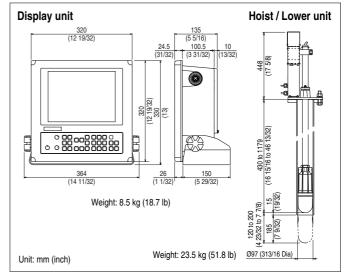
*180 kHz: Recommended for deep depth and middle depth. 2nd echo might be shown at shallow depth from strong reflection of sea bottom.

*200 kHz: Recommended for middle depth. Interference might be caused by 200 kHz Echo sounder.

*220 kHz: Recommended for seeing shallow depth. Sensitivity might be insufficient at deep depth.

EQUIPMENT LIST			
Standard	Display unit	1	
equipments	Hoist / Lower unit		
	DC power cable, Connecting cable		
	Installation materials, Spare parts, Operation manual	1 set	
Options	Remote controller, PVC tank unit, FRP tank unit, Pipe guide and water-		
	proof packing for FRP tank, Power rectifier, NMEA input cable, Trigger		
	output cable, Audio kit		

DIMENSIONS AND WEIGHT



• Design and specifications are subject to change without notice.



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Solid lines: Standard devices and connections.

Dashed lines: Optional devices and connections.

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Safety precaution

To ensure proper and safe use of the equipment, please carefully read and follow the instructions in the Operation Manual.

For details, please contact:



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