

Digital Sonar

KDS-5000BB

DIGITAL



LCD Monitor (Owner supplied)



Junction Box



Processor unit



Hull unit



Operation unit

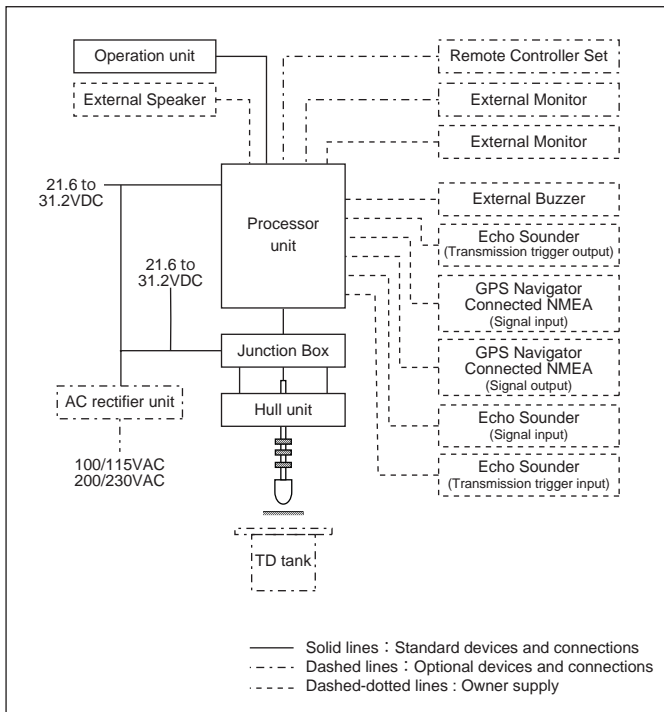
Features

- ▶ DSP Technology (High Resolution by digital technology)
- ▶ Space Saving Installation
- ▶ Black Box Sonar connect to any XGA type display (Owner supplied)
- ▶ Easy Operation

SPECIFICATIONS

Model	KDS-5000BB												
Output power (RMS)	1.5 kW												
Output frequency	180 kHz												
Tilt angle	+5° to -90° (1°step)												
Beam angle	10°												
TD stroke	180 to 380 mm (Recommended value 180 mm)												
Display size and type	Any monitor with XGA resolution (Owner supplied)												
Display resolution	1024 x 768 (XGA)												
Basic ranges	10 to 2000(m), 20 to 6000(ft) 10 to 2000(fm), 20 to 6000(br) (8 ranges can be set to user's choice)												
Range units	Meters, Feet, Fathoms, Braccia												
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	Sonar mode	3°step: 3°, 27°, 45°, 63°, 93°, 117°, 147°, 177°											
		5°step: 5°, 25°, 45°, 65°, 95°, 115°, 145°, 175°											
360° Scanning time	Scanning range (m)	20	40	60	80	100	120	160	180	200	240	400	
(extracts)	Scanning time (sec.) 5° step	5.7	7.6	9.5	11.4	13.3	15.3	19.1	21.0	23.0	26.8	42.2	
	Scanning time (sec.) 10° step	4.1	5.0	6.0	7.0	8.0	8.9	10.8	11.8	12.7	14.7	22.3	
	Scanning time (sec.) 15° step	3.5	4.1	4.8	5.4	6.1	6.7	8.0	8.6	9.3	10.6	15.7	
	Scanning time (sec.) 20° step	3.2	3.7	4.2	4.6	5.1	5.6	6.6	7.1	7.5	8.5	12.3	
Bearing center	every 5°step selectable												
Presentation modes	Sonar mode, Off-center mode, Off-center on the whole screen, Bottom scan mode, Sounder Mode												
Data display	Sector center angle, Tilt angle, Tilt angle indicator, Ring marker, Cross Cursor Compass (option), Navigation (option)												
Off-Center	Fore, Back, Left, Right												
Target lock	Reverse, Horizontal, Horizontal + vertical, Marker + Horizontal												
Presentation colors	8/16 colors												
Functions	Train correct, Power rejection, Gain adjust, Temperature adjust, Pulse width control, TVG change, Target lock, Color change (4 types + 2 types of color palette settings), Dynamic range, Interference rejection, Color rejection, Filter (OFF/1/2), Gain control, Far gain control, External trigger synchronization, Trigger signal output, Hoist sensor lamp, Audio (optional speaker required), Transducer unit automatic retract (Navigator connect required), Full-screen gain control												
Language	English, Japanese												
Input data format and sentences	NMEA183 Ver.2.0 / 1.5 GGA, GLL, HDG, HDM, HDT, VTG												
Output data format and sentences	NMEA183 Ver.2.0 / 1.5 DBT, MTW, TLL												
NMEA ports	Total 1 : input / output												
Power supply	Processor unit	21.6 to 31.2 VDC											
	Hull unit	21.6 to 31.2 VDC											
Power consumption	Processor unit	70 W or less (24 VDC)											
	Hull unit	70 W or less (24 VDC)											
Operating temperature	-15 °C to +55 °C												
Water protection	-												

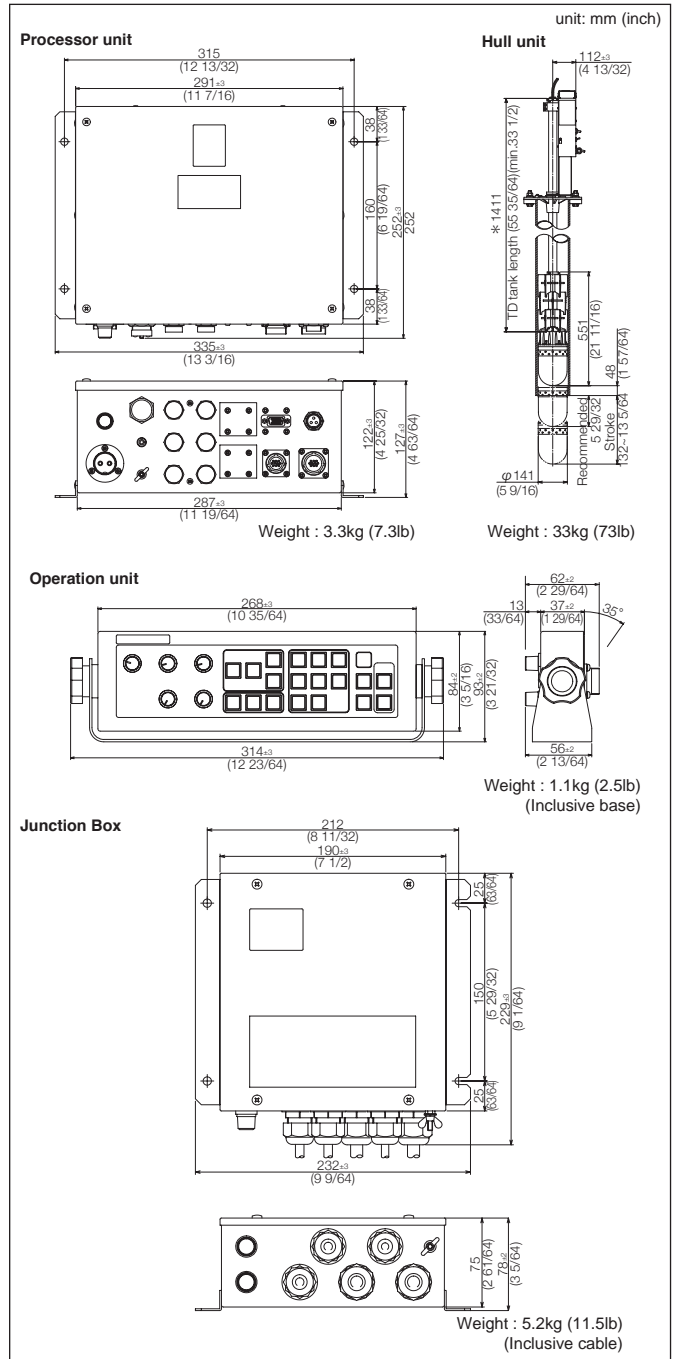
CONNECTIONS



EQUIPMENT LIST

Standard equipment	Processor unit	1
	Operation unit	1
	Hull unit	1
	Junction box	1
	Accessories for Processor unit	1
	Installation materials for Hull unit	1
	Accessories for Junction box	1
	DC power cable	1
	Communication cable	1
	Operation manual	1
Options	Remote Controller Set, XGA Connect Cable Assy, Trigger Output Cable, Junction Box Mounting Kit, TD tank, TD shaft, Shaft guides, Shaft guides with adjuster, Grease, AC rectifier unit, AC power cable	

DIMENSIONS AND WEIGHT



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

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