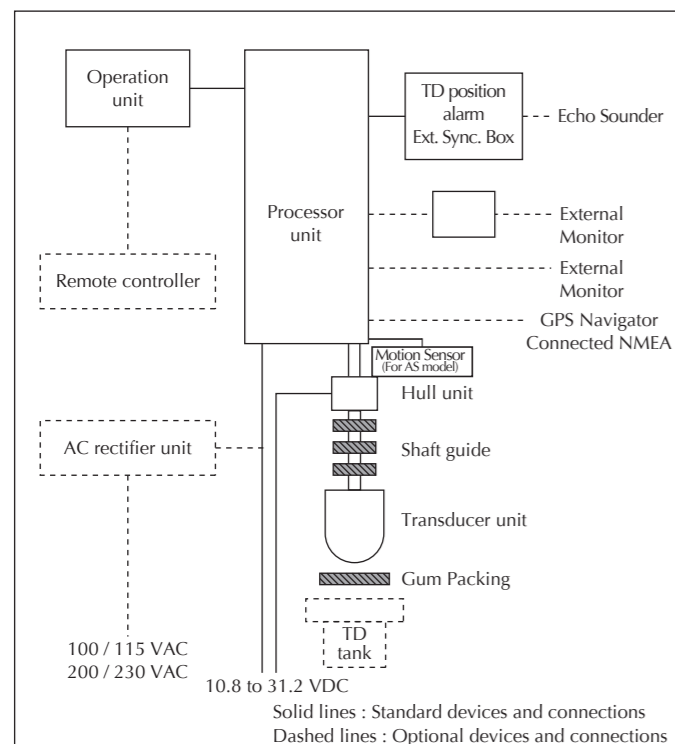


Digital Sonar KDS-6000BB

SPECIFICATIONS

Model	KDS-6000BB	
Output power (RMS)	1.5 kW	
Transducer	DHU-6302-80 kHz	DHU-6302-BRD.B / BRD.B(AS)
Output frequency	80 to 90 kHz (0.1 kHz step) 130 to 210 kHz (0.1 kHz step)	
Tilt angle	5° to -90° (1°step)	
Beam angle	8° to 12°	
TD stroke	150 to 380 mm (Recommended value 150 mm)	
Display size and type	Any monitor with VGA resolution (Owner supplied)	
Basic ranges	10 to 1000 (m), 30 to 3000 (ft), 10 to 600 (fm), 10 to 700 (Lfm) (8 ranges can be set to users choice)	
Range units	m, ft, fm, Lfm	
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°, 117°, 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, 2 Mode Display, One line	
Off-Center	Fore, Back, Left, Right	
Target lock	Reverse, Horizontal, Horizontal + Vertical, Marker + Horizontal, Marker + Horizontal + Vertical	
Presentation colors	8 colors, 16 colors	
Functions	TVG, Color rejection, Dynamic range, Compass display, Pulse width, Output power control, Noise reduction, A-scope, CM key, Frequency bandwidth, Image correction, Bearing display, TD auto up, Sona-Tone™	
Language	English, Japanese, Korean, Spanish, Thai, Traditional Chinese, Greek, Italian, Portuguese, Burmese	
Input data format and sentences	NMEA0183 GGA, GLL, HDG, HDM, HDT, RMC, THS, VTG, ZDA	
Output data format and sentences	NMEA0183 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)
Operating temperature	-15 °C to +55 °C	
Water protection	-	

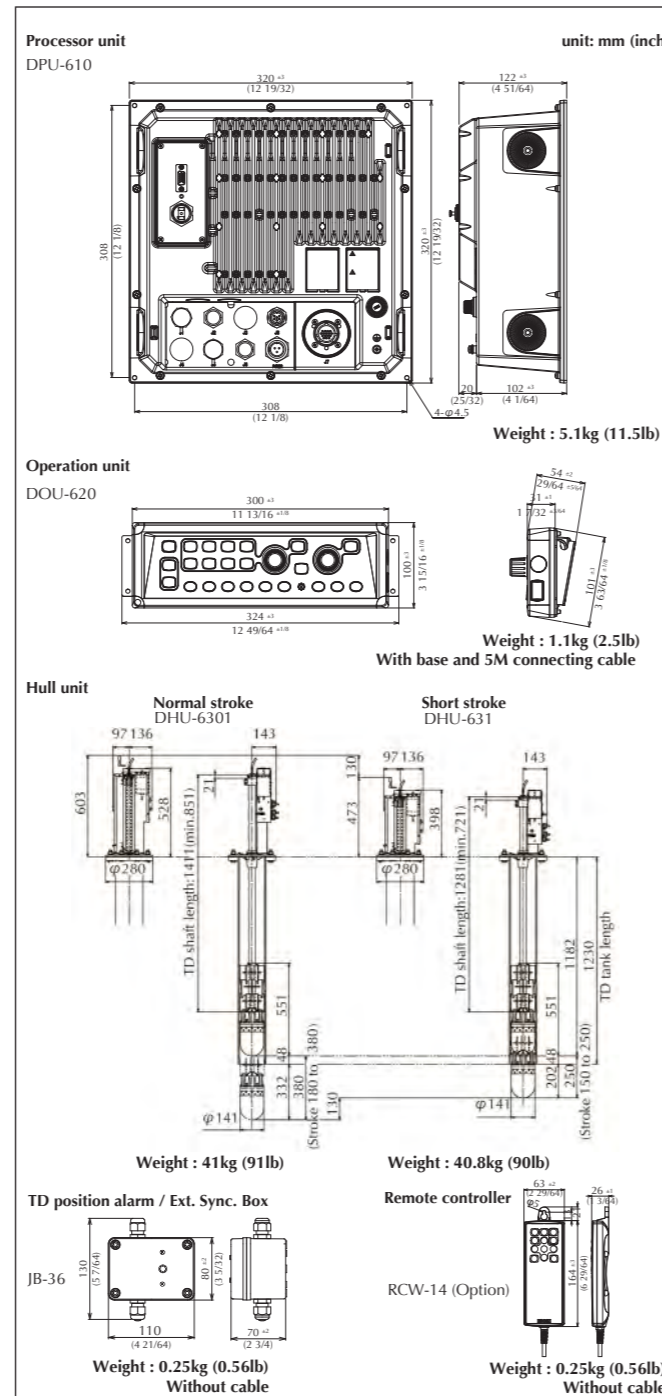
CONNECTIONS



EQUIPMENT LIST

Standard equipment	Processor unit	1
	Operation unit	1
	Hull unit (Normal stroke / Short stroke)	1
	Accessories for Processor unit	1
	Installation materials for Hull unit	1
	TD position alarm / Ext. Sync. Box	1
	DC power cable	1
	Operation manual, Installation manual, Quick Reference	1
Options	Remote controller, PVC TD tank, FRP TD tank, Shaft guide for FRP tank AC rectifier unit, Connecting cable, 17 inch LCD monitor	

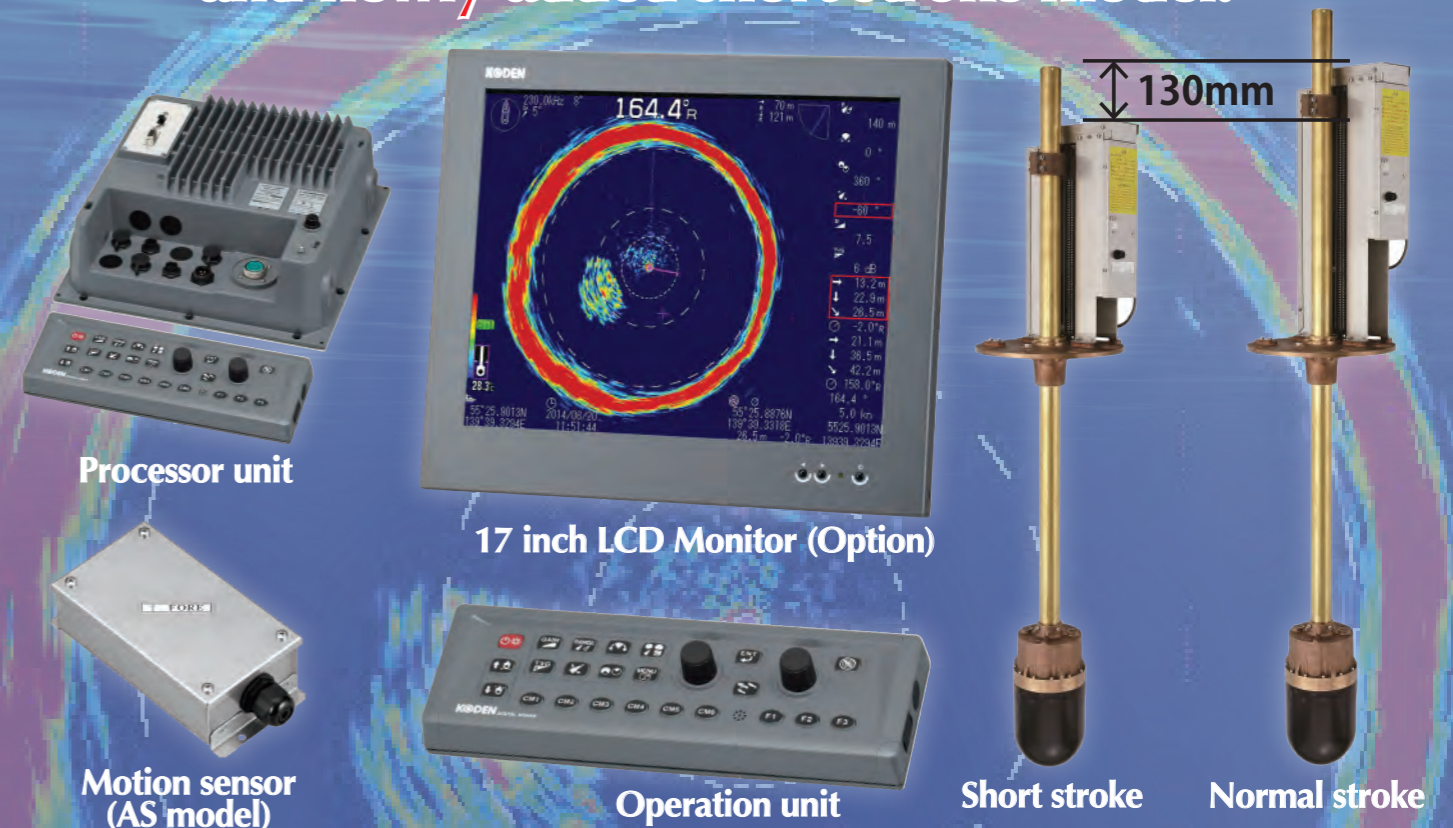
DIMENSIONS AND WEIGHT



• Design and specifications are subject to change without notice.

(((Broadband)))

**World first Broadband searchlight sonar
Added motion sensor function
and newly added short stroke model.**



Features

- ▶ Change frequency on the go with our advanced Broadband Technology
- ▶ Massive improvement in scan speed, making detection of fish schools much faster
- ▶ Clearest possible images with our digital signal processing
- ▶ All setup and user settings changed instantly by utilizing Conditional Memory function
- ▶ Black Box sonar with 17 inch LCD Monitor available (Option)
- ▶ Short stroke Hull unit available for small space
- ▶ The stabilizer function reduces the disturbance of sonar display caused by the pitch and roll of the vessel (For AS model)



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:

Digital Sonar

KDS-6000BB

● Advanced Broadband Technology

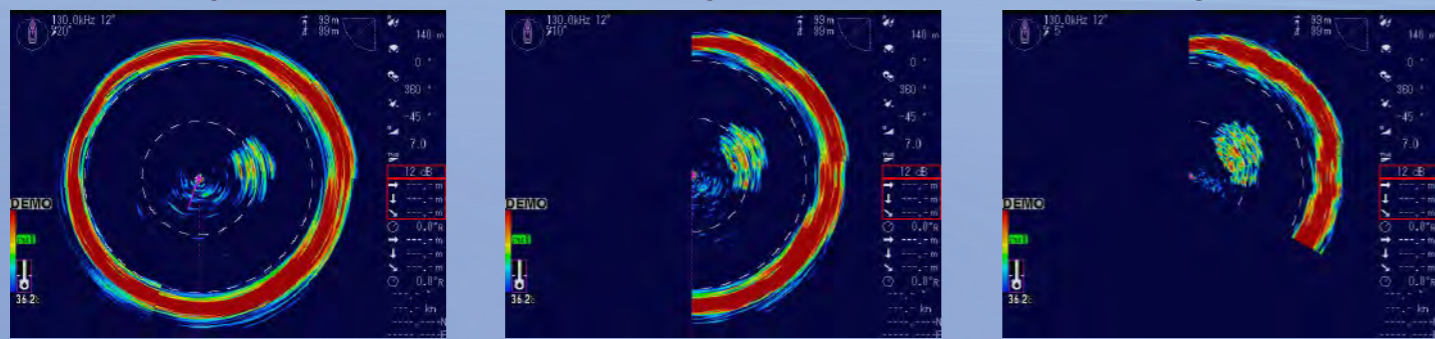
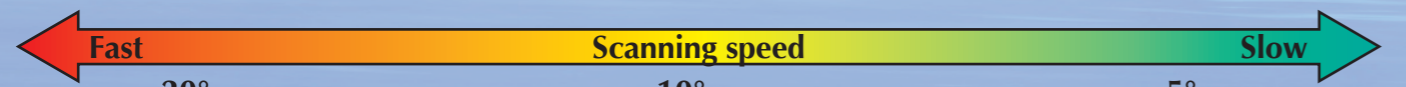
KDS-6000BB is world first Broadband searchlight sonar. The 80 to 90 kHz frequency or 130 to 210 kHz frequency can be selected depending on the Transducer. The most suitable output frequency can be selected in 0.1 kHz step depending on the fishing method and the target species from closer range to longer range. Selection of frequency is as easy and quick as tuning a radio. Flexible selection of frequency enables the user to stay away from interference with the sounders on the other vessels.

● Clearest possible images with our digital signal processing

Both of high resolution in closer range and noise reduction performance in longer range are materialized at high level with newly-developed digital signal processing, KDP V.

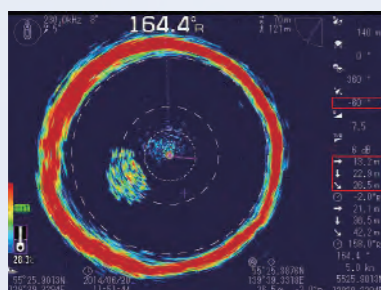
● Massive improvement in scan speed

Scanning speed is remarkably increased by adding 15° and 20° in scanning sector angle steps. It can detect surrounding fish schools quickly.



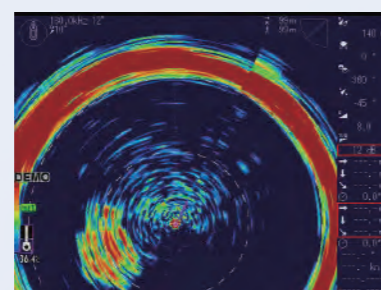
Comparison of scanning area of the same time period Range:140m

● Six different presentation modes



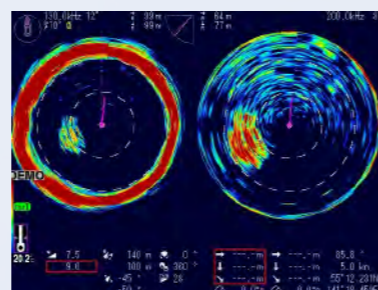
Sonar mode

Search around the ship



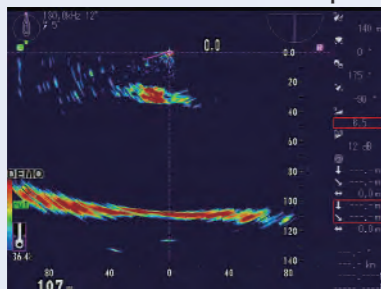
Off-center mode

Show more information of ahead



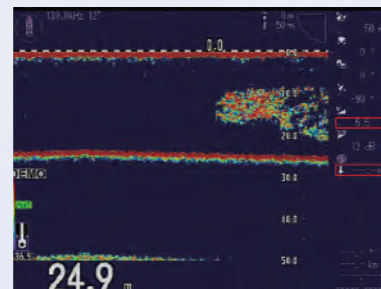
Sonar x 2 mode

Two different frequencies



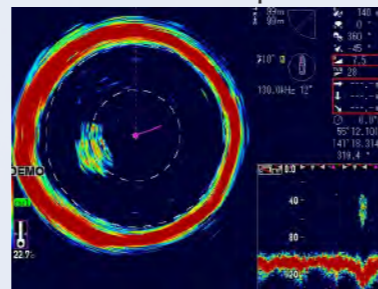
Bottom scan mode

Reflected echo from underwater and sea bottom



Echo sounder mode

Image like Echo sounder



One line display mode

Show vertical Sonar image like an echo sounder image in the Sub-screen

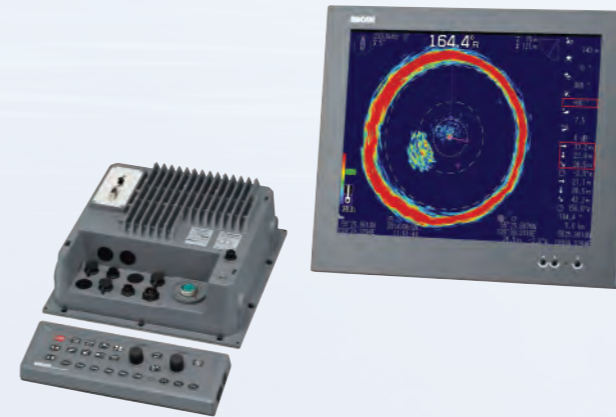
● CM keys



Six of CM keys

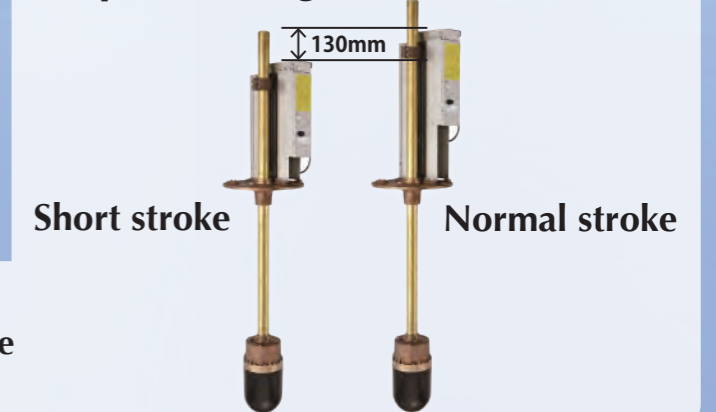
Six of CM (Condition Memory) keys offer the user to preset all the current settings and recall them instantly. It is like six sonars in one unit.

● Black box type



KDS-6000BB comes in black box. The user can select a monitor from the market or the optional 17 inch LCD monitor

● Space-saving Hull unit



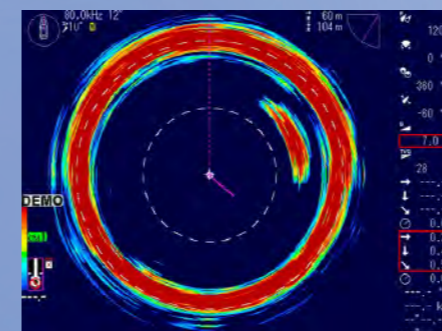
Short stroke Hull unit available for small space

● Motion sensor

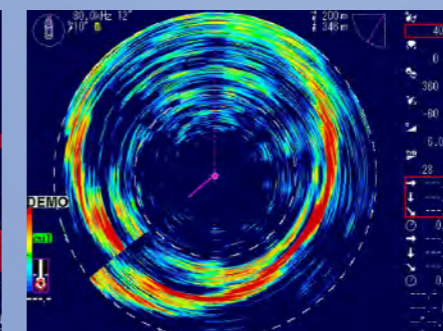


The stabilizer function reduces the disturbance of sonar display caused by the pitch and roll of the vessel. (For AS model)

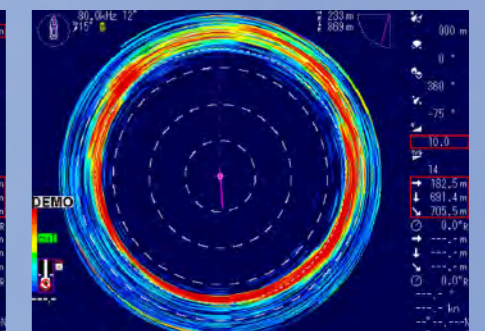
● 80 kHz screen images



Sardine at 80.0 kHz



Red bream at 80.0 kHz



Depth of 680m at 80.0 kHz