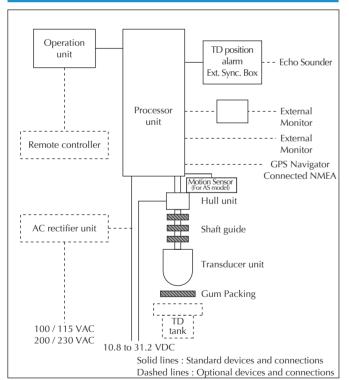
#### **SPECIFICATIONS**

A 4I - I			KDC	(000	DD									
Model Output power (RMS)			KDS-6000BB 1.5 kW											
Transducer (KMS)			DHU-6302-BRD.B / BRD.B(AS)											
Output frequency			130 to 210 kHz ( 0.1 kHz step)											
Tilt angle			130 to 210 kHz (0.1 kHz step)   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 resolition (Owner supplied)											
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 Sonar mode angles			5°step: 5°, 25°, 45°, 85°, 125°, 165°, 205°, 360° 10°step: 10°, 30°, 50°, 90°, 130°, 170°, 210°, 360°											
			15°st	ep: 1	5°. 45	°. 75°	.105	, 135 . 135	°. 16	5°. 22	5°. 36	0°		
			15°step: 15°, 45°, 75°,105°, 135°, 165°, 225°, 360° 20°step: 20°, 60°,100°,140°, 180°, 220°, 260°, 360°											
Bottom scan mode														
BOUGHI SCAN MODE			5°step: 5°, 25°, 45°, 65°, 95°, 115°, 145°, 175°											
360° Scanning tir	ne	Scanning range (m)	20	40	60					180			400	
		ing time (sec.) 5° step	6.3	8	10	11.8								
1 -	Scanni	ing time (sec.)10° step	3.7	4.7		6.5				11.5				
		ing 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	
-	Scanni	ing 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 Chines,											
			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	v	Processor unit												
		Hull unit												
Power consump	otion	Processor unit					2)							
						4 VDC								
Operating temperature				C to -										
Water protection			-											
Trater protection														

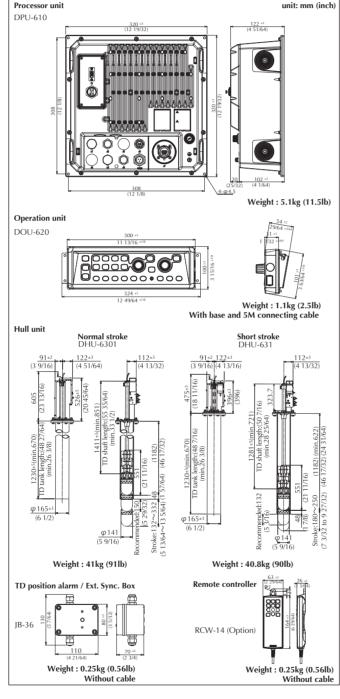
#### **CONNECTIONS**



#### **EQUIPMENT LIST**

Standard equipment	Processor unit				
	Operation unit	1			
	Hull unit (Normal stroke / Short stroke)				
	Accessories for Processor unit				
	Installation materials for Hull unit				
	TD position alarm / Ext. Sync. Box	1			
	DC power cable	1			
	Operation manual, Installation manual, Quick Reference	1			
Ontions	Pemoto controller DVC TD topk EPD TD topk Shaft guide for EPD topk				

#### **DIMENSIONS AND WEIGHT**





2-13-24 Tamagawa, Ota-ku, Tokyo, 146-0095 Japan Tel: +81-3-3756-6501 Fax: +81-3-3756-6509 Uenohara Office: 5278 Uenohara, Uenohara-shi, Yamanashi, 409-0112 Japan

Tel: +81-554-20-5860 Fax: +81-554-20-5875

overseas@koden-electronics.co.jp

www.koden-electronics.co.jp

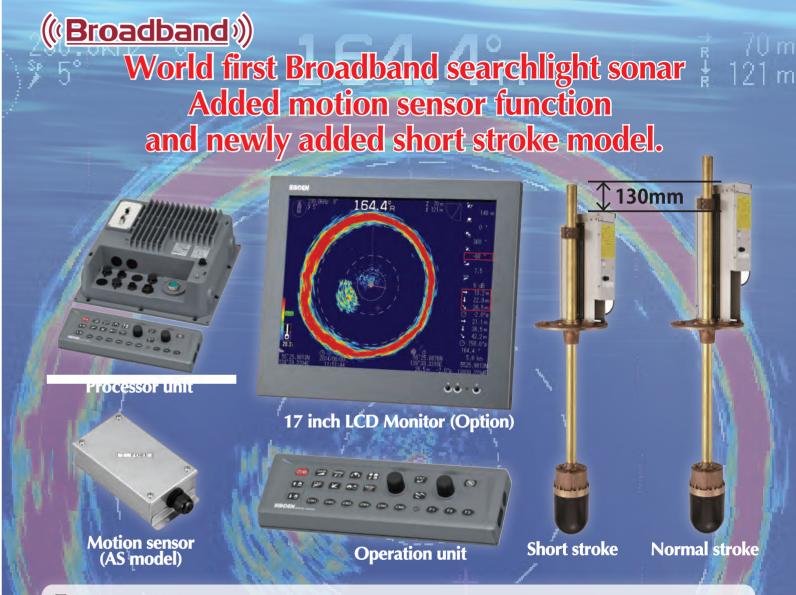


For details, please contact:

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



Digital Sonar **KDS-6000BB** 



## **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 17/19 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)

## **Digital Sonar**

# **KDS-6000BB**

### Advanced Broadband Technology

KDS-6000BB is world first Broadband searchlight sonar. With the broadband transducer equipped as standard, 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.

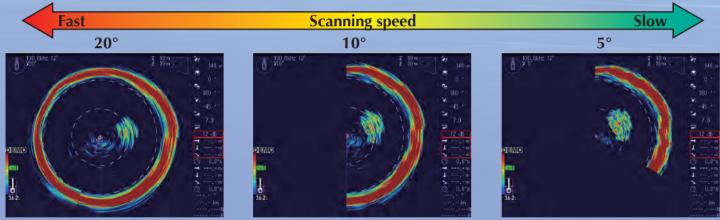
Flexible frequency selection enables user to tune outside of other vessel interference frequency, providing much cleaner image.

### 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.

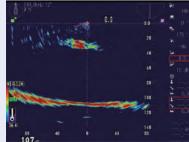


Comparison of scanning area of the same time period

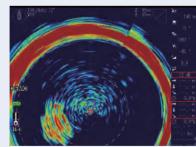
Range:140m

## Six different presentation modes

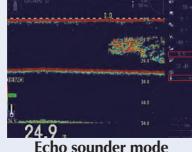




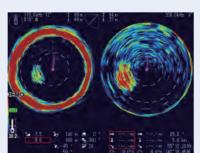
**Bottom scan mode** Reflected echo from underwater and sea bottom



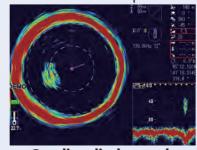
Off-center mode Show more information of ahead



Echo sounder mode Image like Echo sounder



Sonar x 2 mode Two different frequencies



One line display mode Show vertical Sonar image like an echo sounder image in the Sub-screen

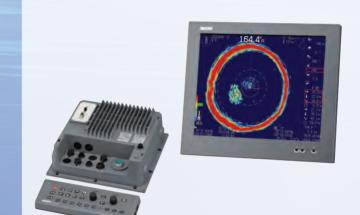
#### CM keys



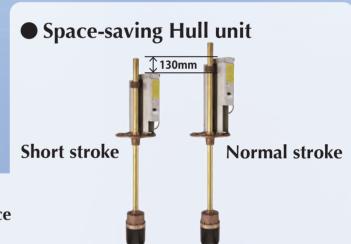
Six of CM (Condition Memory) keys offer the user to preset all the current settings and recall them instantly. It is like six sonars in one unit.

Six of CM keys

### Black box type



KDS-6000BB comes in black box. The user can select a monitor from the market or the optional 17 / 19 inch LCD monitor



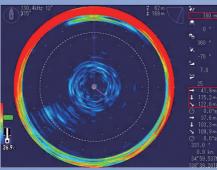
Short stroke Hull unit available for small space

#### Motion sensor

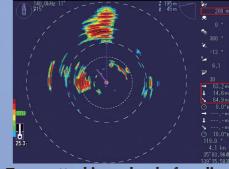


The stabilizer function reduces the disturbance of sonar display caused by the pitch and roll of the vessel. (For AS model)

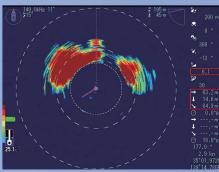
## Example of image



at 130.4 kHz



Spear squids at the sea bottom Tunas attacking school of sardines at 140.0 kHz



**Pilchars** at 140.0 kHz