

SPECIFICATIONS OF COLOR SECTOR SCANNING SONAR CH-37BB

1 GENERAL

- 1.1 Display system 15-inch color monitor (XGA/SXGA) or more recommended
- 1.2 Transmitting frequency 60/113/162 kHz selected
- 1.3 Output power 0.8 kW (60 kHz), 1.3 kW (113 kHz), 1.5 kW (162 kHz)
- 1.4 Pulse length 0.2 to 10.6 ms,
varied according to the range in use

1.5 Range

Range	Detection range (m)			Train speed (sec) at 113 kHz
	60 kHz	113 kHz	162 kHz	
1	0-50	0-50	0-50	3.8
2	0-100	0-100	0-100	4.3
3	1-150	1-150	1-150	4.8
4	0-200	0-200	0-200	5.4
5	0-250	0-250	0-250	6.0
6	0-300	0-300	0-300	6.7
7	0-400	0-350	0-350	7.0
8	0-500	0-400	0-400	7.6
9	0-600	0-500	0-450	8.6
10	0-800	0-600	0-500	10.0
11	0-1200	0-800	0-600	12.0
12	0-1600	0-1000	0-800	14.0

2 PROCESSOR UNIT

- 2.1 Picture output 1024 x 764 pixels, 16 or 8 colors selectable
- 2.2 Color hue control LOG, linear, square
- 2.3 Display mode Vertical (normal, expanded), Slice combination, Sonar combination
- 2.4 Sensitivity Variable continuity
- 2.5 Unit indication m, ft, fa, HR
- 2.6 Horizontal range 12 steps during 30 m to 1600 m
- 2.7 Vertical range 12 steps during 10 m to 1600 m
- 2.8 Display sector width
Horizontal mode 45°, 90°, 135°, 180°, 225° and 360°
Vertical mode 36°, 60°, 96°, 120°, 150° and 180°
- 2.9 Off-center 4 point at expand mode, according to the train setting
2 point at slice mode, according to the tilt setting
- 2.10 TVG Level (100 dB max.), Range (1000 m max.)
- 2.11 Clutter Variable, Hue control
- 2.12 Elimination interference Correlation with before data
- 2.13 Audio monitor 2 W, 8 ohms using external speaker (option)

3 HULL UNIT

- 3.1 Train step 45° step by fast scan mode or 6° step by normal mode
- 3.2 Tilting
 - Horizontal mode 15° step on automatic mode or 6° step on manual mode
 - Vertical fan mode 6° (fast scan) or 3° step (normal)
- 3.3 Transducer travel 400 mm
- 3.4 Raise/lower time 10 sec approx.
- 3.5 Allowable ship's speed 18 knots or less (15 knots during raise/lower operation)

4 INTERFACE

- 4.1 NAV data input NMEA0183 Ver2.0 or CIF
- 4.2 External KP I/O TTL for synchronization
- 4.3 RGB Video signal output XGA (VESA DDC), for external monitor

5 POWER SUPPLY

- 5.1 Processor unit 24 VDC: 0.5 A max.
- 5.2 Transceiver unit 24 VDC: 3.5 A
- 5.3 Hull unit 24 VDC: 3.5 A max. (6.5 A while traveling)
- 5.4 Total 24 VDC: 13.0 A max. (16.0 A while traveling)
- 5.5 Rectifier (option)
RU-3423, RU-1746B-2 100-115/220-240 VAC, 1 phase, 50/60Hz

6 ENVIRONMENTAL CONDITION

- 6.1 Ambient temperature 0°C to +50°C
- 6.2 Relative humidity 95% or less at 40°C
- 6.3 Degree of protection
 - Processor unit IPX0
 - Transceiver unit IPX2
 - Hull unit IPX4
 - Transducer IPX8

7 COATING COLOR

- 7.1 Processor unit N3.0
- 7.2 Hull unit 2.5GY5/1.5
- 7.3 Transceiver unit 2.5G7/2