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Sales Bulletin

Attention: All Furuno distributors/subsidiaries

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Bottom Discrimination Sounder

BBDS1

New Product Information

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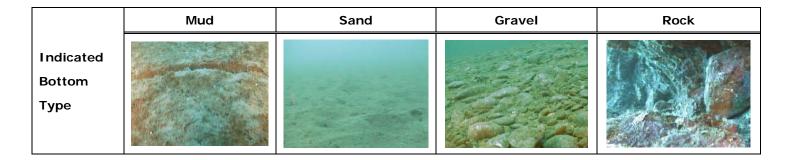
A. What is BBDS1?

1. Bottom Discrimination helps...

The sea bottom consists of several kinds of materials, and it could be a big help if you could see them – You may be able to find a suitable point of target fish, guess a type of fish down below, and anchor at an appropriate place.

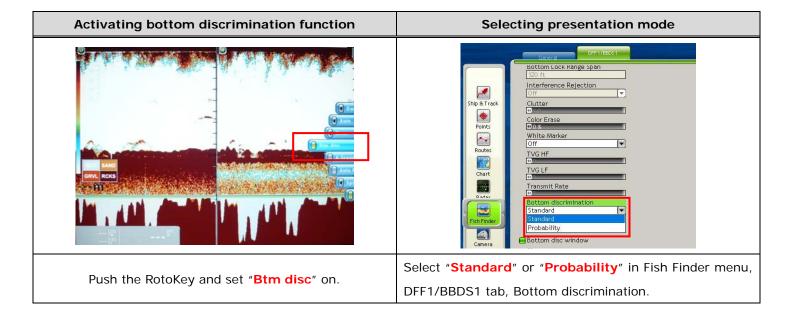
2. What BBDS1 offers

The BBDS1 is the new network sounder featuring the **bottom discrimination function** as well as the digital filter technology succeeded from the DFF1, and enables to indicate a major component of the bottom among **mud**, **sand**, **gravel**, and **rock**, which is achieved by analyzing a different echo from each component made of varieties of size and hardness. Connect the BBDS1 on the NavNet 3D network and get ready for this unique feature.



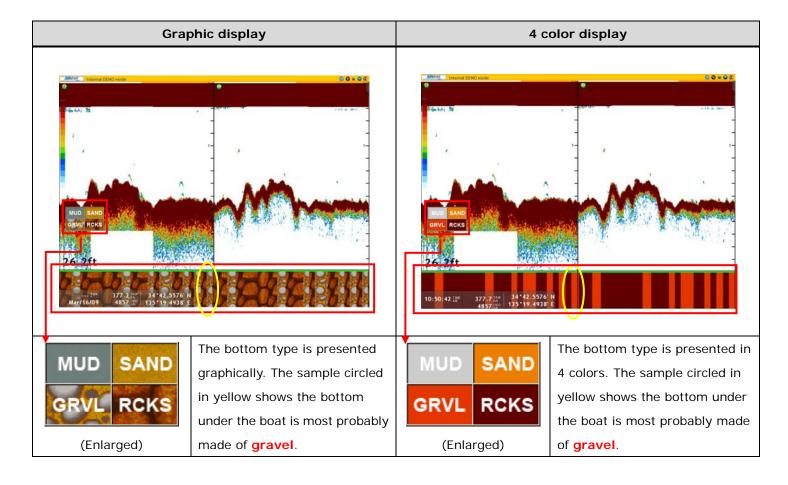
3. How to Activate Bottom Discrimination Function

Clicking "Btm disc" in the RotoKey menu, the bottom discrimination function is available with two presentation patterns – "Standard Mode" and "Probability Mode".



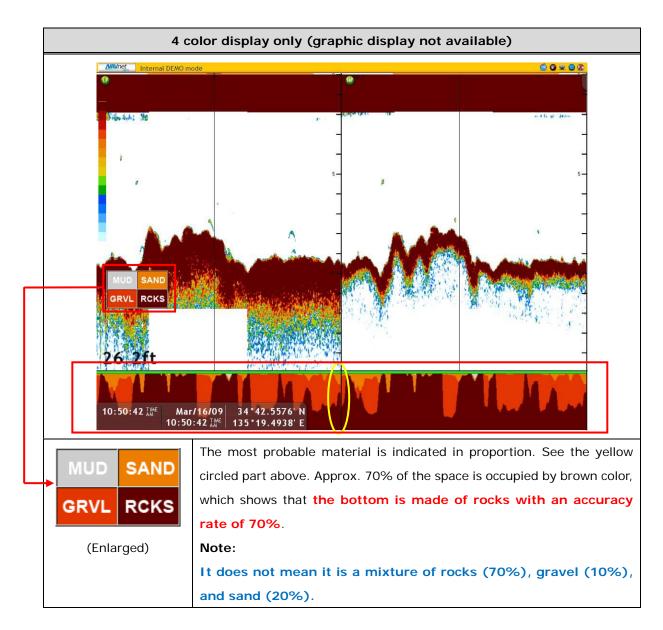
1) Standard Mode

The most probable material on the sea bed among mud, sand, gravel, and rock is indicated graphically or with 4 colors in the bottom of the display.



2) Probability Mode

Sometimes it is difficult to specify one certain material depending upon conditions, which change frequently. The probability mode enables to present the bottom type with an accuracy rate.



4. Required Conditions for Bottom Discrimination

Detection Range	5-100m
Boat Speed	0-10kt
Transducer mounting	Thru-hull or transom mount only
MFD8/12/BB software	v2.06 or later

< Limitation > Performance

- 1) The result shown on the display may sometimes be different from the actual one.
- 2) The good performance is not secured with inner-hull mounted transducers.
- 3) The BBDS1 may show an incorrect result especially when there is a big fish school right under the boat because enough echoes are not received from the bottom.
- 4) Materials such as shell, coral, sunken ship are detected as the most similar material to either one among mud, sand, gravel, or rock, according to reflected echoes.

< Limitation > Operation / Installation

- 1) Auto mode is automatically activated when the bottom discrimination function is turned on. (Manual mode is not selectable.)
- 2) The BBDS1 is not compatible with the NavNet 1 and NavNet vx2.
- 3) It is not possible to modify the DFF1 and DFF3 to have the bottom discrimination function.

B. Specifications

1. Comprising and Options

Standard

Name	Туре	Code	Qty	Remarks	
Bottom Discrimination	DDDC1		1		
Sounder	BBDS1	_	'		
Spare Parts	SP02-05201	001-007-860	1	Fuse	
Installation Materials	CP02-08700	001-105-120	1	Power cable (3.5m)	
				LAN cable (5m for NavNet 3D)	
Installation Materials	CP02-08101	001-007-210	1	Self-tapping screws	

Options

Name	Name Type		Remarks	
Matching Box	MB-1100	000-041-353	for 1kW	
Cable Assembly	MOD-Z072-020+	000-167-175	2m, for NavNet 3D	
	MOD-Z072-100+	000-167-177	10m, for NavNet 3D	
Transducer	520-5PSD	000-015-204	Thru-hull mount, plastic	
	520-5MSD	000-015-212	Thru-hull mount, Metallic	
	525-5PWD	000-146-966	Transom mount, plastic	
	50/200-1T	000-015-170	10m, 1kW	
	50/200-12M	000-015-171	10m, 1kW	

Triduor	525STID-MSD	000-011-783	Thru-hull mount, metallic	
Triducer	525STID-PWD	000-011-784	Transom mount, plastic	
Speed/Temperature	ST-02MSB	000-137-986	Thru-hull mount, steel hull	
Sensor	ST-02PSB	000-137-987	Thru-hull mount, plastic hull	
	T-02MTB	000-040-026	Transom mount	
Temperature Sensor	T-02MSB	000-040-040	Thru-hull mount	
	T-03MSB	000-040-027	Thru-huir mount	
Cable Assembly	02S4147-1	000-141-082	for Speed/Temperature Sensor	
Rectifier	PR-62	000-013-484	100VAC	
		000-013-485	120VAC	
		000-013-486	220VAC	
		000-013-487	240VAC	

2. Specifications

➤ Frequency 50/200kHz Two frequencies alternately transmitted

Output Power 600W/1kW

Power Supply 12-24VDC: 1.1-0.4A (Output Power: 1kW)

Ambient temperature -15 to +55
 Relative Humidity 93% at 40

Waterproofing
IP20 (not waterproof)

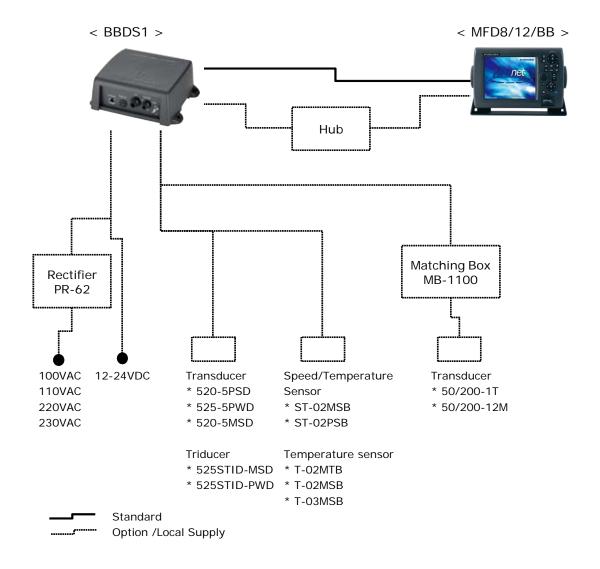
3. Comparison with DFF1

	BBDS1	DFF1	
Bottom discrimination	Available	Not available	
Accu-fish	Available Available		
Compatible unit	NavNet 3D (MFD8/12/BB) only	NavNet 1, NavNet vx2, NavNet 3D	
Transducer installation	Thru-hull, transom only	Thru-hull, transom, inner-hull	
	(No inner-hull)	(No inner-hull for accu-fish)	
Frequency	50/200kHz	50kHz, 200kHz, 50/200kHz	
	(Single frequency not available)	(50/200kHz for accu-fish)	

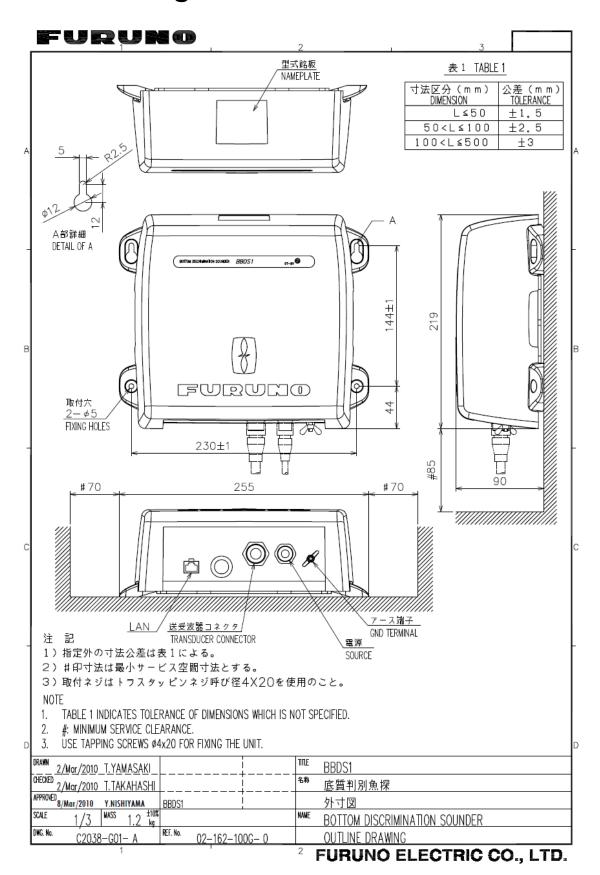
4. Packing Details

	N/W (kg)	G/W (kg)	М3	L (mm)	W (mm)	H (mm)
1 set/ctn	2.0	3.0	0.026	320	310	260
6 sets/ctn	18.0	21.0	0.173	770	660	340

C. Installation



D. Outline Drawing



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