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High Power S-Band Fishing Radar

操船



340

Reliable **S-Band** Fishing & Bird Radar

UDUNA

S-Band Antenna (SN36AF)

AIS

Target

Tracking





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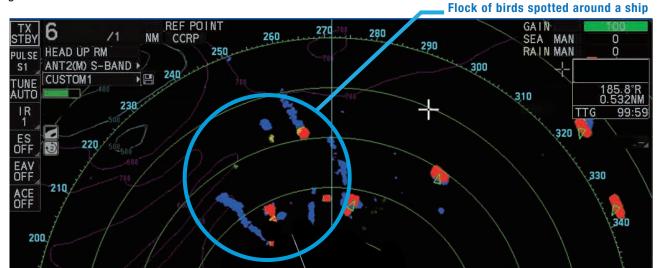
TTG

More details at www.furuno.com



Gain in Searching POWER with S-band antennas

The benefit of S-band antennas lie not only in their signal strength of 60 kW, but also in their capability to detect objects other than ships without being disturbed by weather or sea swell. With the FAR-2268DS, the user will be able to find birds and therefore determine the location of promising fishing grounds.





Function keys support up to 32 customizable features & settings

Each key can be assigned a single function or multiple functions. When [multiple functions] is selected, up to eight functions can be assigned to one key, which can be utilized by pressing the function key and then the numeric keypad. It is possible to assign up to 32 functions.



A menu is displayed according to the pre-registered keys, allowing the immediate use of the desired function.

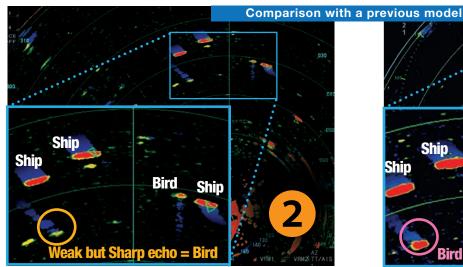
	F1 KEY EXECUTION
1	TKR COLOR SEL
2	IR
3	Echo Stretch
4	EAV
5	ACE
6	AUTO-SEA
7	AUTO-RAIN
8	
9	F1 FUNCTION KEY
0	CLOSE
E	nation many act to the F1 key

Function menu set to the F1 key

High power, High resolution, Reliable in any kind of weather Perfect to find birds

Improved detection performance and accuracy at long range compared to previous models

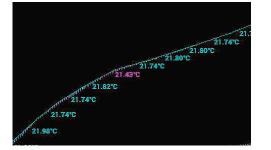
While echoes can sometimes appear too faint or too large and be mistaken for a ship (1), the new FAR-2268DS really makes a difference and uses its accuracy to distinguish echoes while making the whole presentation much sharper and clearer. (2)



FAR-2268DS

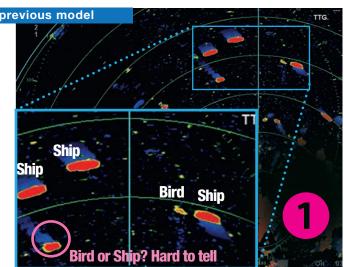
Easily identify fishing grounds with colored track lines

The water temperature is automatically displayed in the vessel track line, with the color changing according to water temperature. This allows the user to intuitively understand changes in water temperature and easily identify fishing grounds.



Intuitive off-center function with trackball

To off-center the display, the user can either move the cursor to the desired area or do so directly with the trackball when the cursor is hidden, which allows for intuitive use.



Previous model

A total of 40 origin marks can be entered

The number of origin marks that can be entered has been increased from 20 (previous model) to a maximum of 40. By displaying a list of origin marks, the distance and direction from the registered position to the cursor can be determined at a glance.

Additionnally, users can choose between "sea fixed" (blue) and "land fixed" (green), plus, land fixed origin marks are backed up even after the power is turned off.



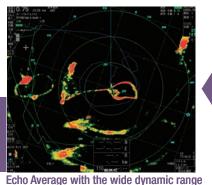
Check out about Furuno products and technology at www.furuno.com

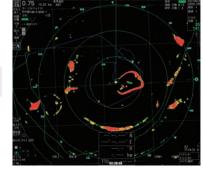


Fishing gear echoes are easily visible with the addition of the Echo Average feature (EAV) and its wide dynamic range

The new wide dynamic range signal EAV function allows the display of both weak and strong echoes in a richly colored image as shown on the right.

Did you know? EAV stands for Echo Average It is a signal processing technology that suppresses unnecessary echoes on the screen by utilizing image correlation techniques, making it easier to distinguish echoes

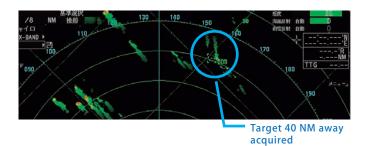




The new wider dynamic range EAV removes unwanted echoes and clearly shows the shape of the net

TT target acquisition up to a distance of 48 NM

With Target Tracking (TT), the FAR-2268DS is capable of capturing targets within a range of 48 NM, whereas the previous model was limited to a distance of 32 NM. This allows users to keep a close eye on more distant targets.



AIS customization helps you keep an eye on other vessels

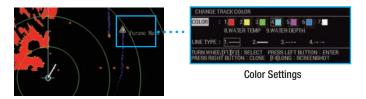
Users can register a color and a ship track color for each AIS target, so that you can identify other ships at a glance. (Maximum number of entries is 100).



Custom AIS Settings

TT custom settings make it easier to distinguish other ships!

Users can set the name, color, shape and track color of the acquired TT target. Custom TT settings can be pre-registered (up to 10) and these can be quickly assigned to targets.



S-band RADAR for Fishing Model FAR-226805

1-11i-G

Specifications

ANTENNA UNIT

Antenna Type	Slotted Array		
	SN30AF	SN36AF	SN30DF
Length	320 cm	380 cm	320 cm
Horizontal beam width	2.3°	1.8°	2.3°
Vertical beam width		25°	22°
Side lobe within ±10°	-24 dB	-24 dB	-24 dB
Side lobe outside ±10°	-30 dB	-30 dB	-30 dB
Polarization		Horizontal	

Horizontal 24 rpm

70 kn

TRANSCEIVER

Rotation

Wind load

THURSOETTER	
TX Frequency and modulation	3050 MHz ±30 MHz, P0N
Output power	60 kW

Range scale, Pulse Repetition Rate and Pulselength

PRR (Hz)		Range scale (NM)															
	0.125	.125 0.25 0.5 0.75 1 1.5 2						3	4	6	8	12	16	24	32	48	96
1900		S															
1100									M1								
600				M2													
600		L															

PROCESSOR UNIT

Minimum range	37 m
Range discrimination	32 m
Bearing discrimination	2.5°(SN30AF), 2.0°(SN36AF), 2.5°(SN30DF)
Bearing accuracy	±1°

Range scale (RS) and Range ring interval (RI) in $\ensuremath{\mathsf{NM}}$

ſ	RS (NM)	0.125	0.25	0.5	0.75	1	1.5	2	3	4	6	8	12	16	24	32	48	96
	RI (NM)	0.025	0.05	0.1	0.25	0.25	0.25	0.5	0.5	1	1	2	2	4	4	8	8	16

Warm-up time	3 min. Approx.				
Presentation mode	Head-up, STAB head-up, Course-up,				
	North-up (RM/TM), Stern-up				
Marks	Cursor, Range ring, Heading mark, North mark,				
	Bearing mark, Target trail, VRM, EBL, Acquisition zone				
Target tracking (TT)	Auto or manual acquisition: 100 targets in 24/48 NM				
	Auto tracking on all acquired targets,				
	Tracking: 5/10 pts on all activated targets				
	Vector time: Off, 30 s, 1-60 min				
AIS	Display capacity: 350 targets				
	Tracking: 5/10 pts on activated targets				
	Vector time: Off, 30 s, 1-60 min				
Echo Trail (True/Relative)	Trail length: 0-30 mins (every 30 Secs) or continuous				
Radar map	20,000 pts				
Acquisition zone	2 zones				
Interswitch function	Selectable from menu				

PLOTTER FUNCTIONS

Projection	Mercator						
Useable area	85° latitude or below						
Range (STBY)	0.025 to 120 NM, follows the radar range scale while transmitting						
Memory capacity							
Own ship's track	30,000 pts (10,000 pts indicated)						
Other ship's track	TT: 100,000 pts, AIS: 10,000 pts, consort ship: 10,000 pts, GPS buoy: 10,000 pts						
Mark/line	30,000 pts						
Waypoint	3,500 pts						
Route	200 routes (1 route 100 pts)						
External memory	1 route (100 pts)						
Electronic chart	Mapmedia						
Own ship's tracking	7 colors						

MONITOR UNIT (OPTION)

FURUNO

Screen type	MU-190HD	MU-190	MU-231	MU-270W
Size	19-inch color LCD	19-inch color LCD	23.1-inch color LCD	27-inch color LCD
Resolution	1280 x 1024 (SXGA)	1280 x 1024 (SXGA)	1600 x 1200 (UXGA)	1920 x 1200 (WUXGA)
Brightness	1000 cd/m ²	450 cd/m ²	400 cd/m ²	400 cd/m ²
Visible distance	1.02 m	1.02 m	1.2 m	1.02 m
Radar effective diameter	282 mm	282 mm	331 mm	349 mm

INTERFACE

Number of port (Pro	cessor Unit)					
Serial	7 ports (IEC61162-1/2: 2 ports, IEC61162-1: 4 ports, AD-10: 1 port)					
Alarm output	6 ports: contact signal, load current 250 mA					
	(Normal close/ open: 4, System fail: 1, Power fail: 1)					
DVI output	2 ports: DVI-D, DVI-I or RGB picture data (for VDR)					
	(RGB resolution 1280x1024 (SXGA), 60.0Hz or 1440x900 (WXGA+), 59.9Hz)					
LAN	2 ports: Ethernet 100Base-TX					
USB	2 ports: USB flash memory and mouse/keypad					
RS-232C	1 port: brilliance control					
Sub display(for ECDIS)	2 ports: HD, BP, Trigger and Video signal					
Data sentences (IEC61162	2-1/2)					
Input	ABK, ACK, ACN, ALR, BWC, BWR, CUR, DBK*, DBS*, DBT, DDC, DPT, DTM, GGA, GLL,					
	GNS, HBT, HDG, HDM, HDT*, MTW, MWV, OSD, RAQ, RMB, RMC, ROT, RTE, THS, TLL,					
	TTM, VBW, VDM, VDO, VDR, VHW, VSD, VTG, VWR*, VWT*, WPL, ZDA					
Output	ABM, ACK, AIQ, ALC, ALF, ALR, ARC, BBM, DDC, EVE, HBT, OSD, RSD, TLB, TLL*,					
	TTD, TTM, VSD					
Ethernet interface for IEC	61162-450					
Port (LAN2)	100Base-TX, IPv4, 8P8C connector					
IEC61162-450 transmis	sion group					
Input	MISC, TGTD, SATD, NAVD, TIME, PROP					
Output	Arbitrary (default: TGTD)					
Multicast address	239.192.0.1 to 239.192.0.16					
Destination port	60001 to 60016					
Re-transmittable binar	y image transfer					
Multicast address	239.192.0.26 to 239.192.0.30					
Destination port	60026 to 60030					
Other network function	excepted IEC61162-450					
	SNMP, HTTP, Syslog, Furuno Management Protocol (FMP)					
Input/Output port on ante	ana unit					
Input port	1 port: HD, BP, Trigger and Video signal					
Output port	3 ports: HD, BP, Trigger and Video signal					
POWER SUPPLY						
Power supply unit	100-115/220-230 VAC: 3.1/1.5 A, 1 phase, 50-60 Hz					
Processor unit	100-230 VAC: 2.2/1.1 A, 1 phase, 50-60 Hz					
Monitor unit	MU-190 100-230 VAC: 2.8-1.4 & 1 phase 50-60 Hz					

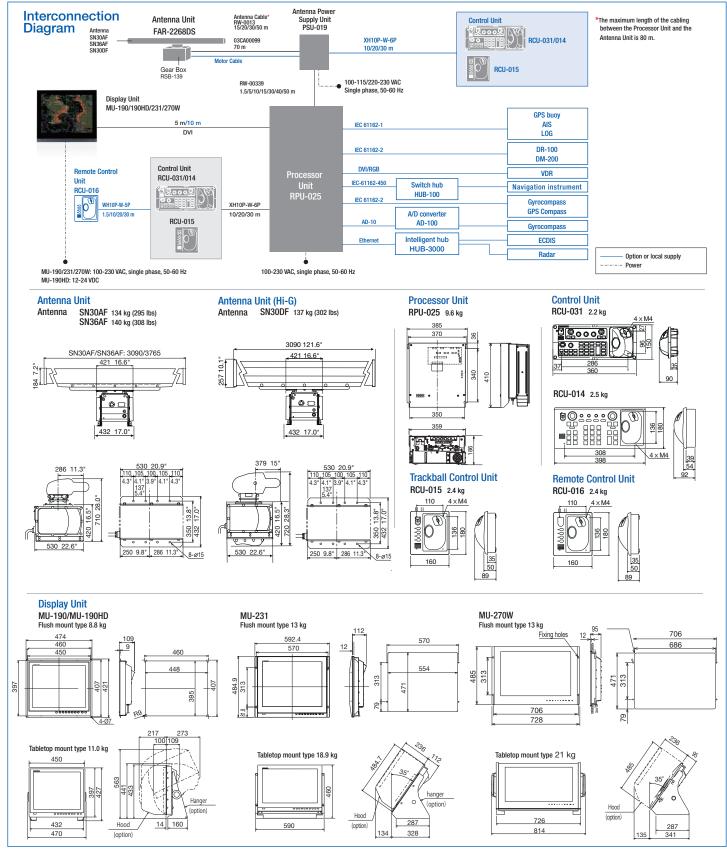
i ower suppry unit	100-113/220-	100-113/220-230 VAC. 3.1/1.3 A, 1 phase, 30-00 Hz					
Processor unit	100-230 VAC:	2.2/1.1 A, 1 phase, 50-60 Hz					
Monitor unit	MU-190	100-230 VAC: 2.8-1.4 A, 1 phase, 50-60 Hz					
	MU-190HD	12-24 VDC / 8.4-3.9 A					
	MU-231	100-230 VAC: 1.0-0.6 A, 1 phase, 50-60 Hz					
	MU-270W	100-230 VAC: 0.7-0.4 A, 1 phase, 50-60 Hz					
Hub (Option)	100-230 VAC:	0.1 A, 1 phase, 50-60 Hz					

ENVIRONMENTAL CONDITIONS

Ambient temperature	Antenna unit -25°C to +55°C (storage: -25°C to +70°C)
	Indoor unit -15°C to +55°C (storage: -15°C to +70°C)
Relative humidity	93% or less at +40°C
Degree of protection	Antenna unit IP46
	Power supply unit IP22
	Processor unit IP22
	Control unit IP20 (RCU-014/015/016), IP22 (RCU-031)
	Hub IP20 (HUB-100), IP22 (HUB-3000)
Vibration	IEC 60945 Ed.4

S-Band RADAR for Fishing

Male FAR-2268D5



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