Radar JMA-3400 series





- Lightweight design featuring a 12.1-inch fully dimmable display
- Chart underlay (NAVIONICS+)
- Real Time Head-up Function (Constaview)
- Variety of compact X-band scanner units



Category >500 GT





Fishing



Features

The newest addition to the JRC radar portfolio is the JMA-3400 series. This lightweight radar has a user-friendly operation system and is specially designed for fishing boats, non-international trading vessels and workboats. The system can be completed by choosing from a variety of 2 ft, 3.9 ft, 4 ft and 6 ft scanners.



- 12.1-inch fully dimmable display
- High-visibility by glass-bonded display
- Chart underlay (NAVIONICS+)
- Real Time Head-up Function (Constaview)
- Variety of compact X-band scanner units

- High speed version available
- Brushless antenna motors for extended lifetime
- Light-weight design
- · Latest technologies included
- Multi-Language



Display

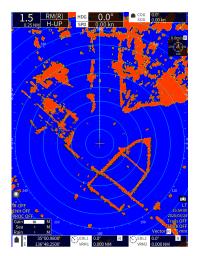
The 12.1-inch dimmable LCD provides excellent visibility and durability. It reduces reflection of sunlight and shows clear images of even the smallest targets. The ergonomic keyboard offers user customizable keys. Programming the USER keys give you instant access to your favourite functions.



The newly developed thin body is reduced till only 97.1 mm depth, so that it can be installed on small vessels where effective use of the limited space needs to be taken into account.

Radar overlay

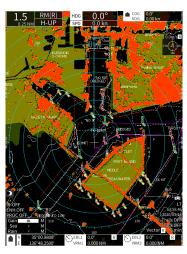
By displaying the radar image and the NAVIONICS+1 chart in an overlapping manner, you can grasp the relationship between the radar image and the coastlines simultaneously.







Daytime mode (with NAVIONICS+)



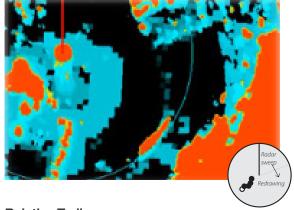
Night mode (with NAVIONICS+)

Constaview

Naturally our patented real time Constaview functionality is incorporated into the new radar system, processing the radar image before being displayed, generating a smooth rotation when sailing in Head-Up mode. To use real-time Head-Up, own ships position information (GPS connection) and input of heading information (compass connection) is required. When changing to North-Up, the new radar image is displayed without any delay caused by the scanner rotation. By displaying the other ships moving with a tail and displaying the fixed objects such as land and buoys so that they do not pull the tail, the movements and fixed objects of other ships can be accurately read.

Real-time Head-Up mode

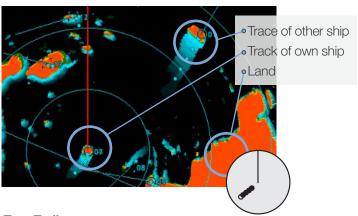
Conventional



Relative Trails

Traditional technology relies on several sweeps of the scanner to redraw the image. Trails are presented as relative.

Constaview



True Trails

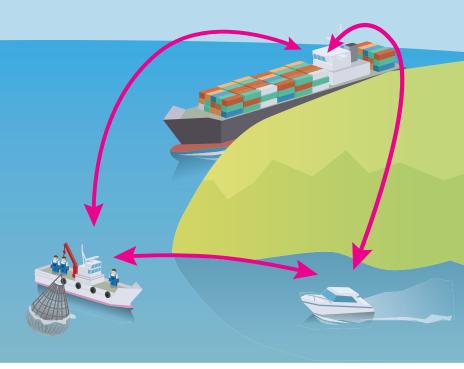
Constaview refreshes the image every 16 ms. Despite heading changes trails are always true.

¹ Navionics chart chartridge not included. Price pending on area and content, please contact your delaer fro further information.

AIS

By connecting with AIS, it is possible to display ships on the island's shadow where radar waves do not reach, enabling safer navigation.

In order to use the AIS display function, it is necessary to input own ships position information (GPS connection), heading information (compass connection) and AIS information.



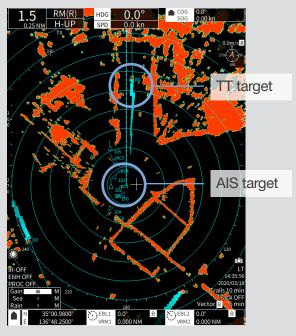
The JMA-3400 series is equipped with target tracking (TT) function and AIS display function.
To use the target tracking function, input of heading information (compass connection) is required.



TT List 02	CPA[NM]	TCPA[min]	BRG[°]	RNG[NM]	CRS[°]	SPD[kn]
No.01	,	,-	2.6	1.676	360	16.91
R-No.02	\		234.9	1.496	161.3	9.50
ENH OFF		T.	T List Close	- Salar		14:36:
Coin W	M and	>			4	Trails 10 m
Sea o	M 210	7			130	TrackOF
Rain	M		180		Vec	tor R 6 m
	35°00.9800 36°48.2500'	VRM1			VRM2 0.00	0 NM

Target tracking can be up to 30 ships.





Up to 100 AIS displays can be displayed.





In the box

Scanner unit

Scanner radiator

Display unit

To be selected

NAX-16B-6

NCD-2364

Installation Cable

English Manuals

Standard spare parts

CFQ-6912-20

7ZPRD1007

Optional

• Extension cable - 5m

Data cable

· 2m Data cable

• 5m scanner cable • 10m scanner cable

• 15m scanner cable

CFQ-9002

CFQ-5374

CFQ-7765

CFQ-6912-5

CFQ-6912-10

CFQ-6912-15

• 20m scanner cable

• 30m scanner cable

Protector rubber cap

Simulator cable

AC-DC Rectifier

Power Supply Unit

CFQ-6912-20

CFQ-6912-30

MTT317838

CFQ-8879

NBD-865

NBA-5111

Tech Specs

Display unit

Display unit

NCD-2364 Weight 5 kg (11.02 lbs)







320 mm (12.60 in)

97.1 mm (3.82 in)

Scanners

2 ft | 16-48 rpm NKE-2043 Weight 10 kg (22.05 lbs)



620 mm (24.41 in)

3.9 ft | 16-27 rpm | 27-48 rpm HS NKE-2063A/HS Weight 21 kg (46.30 lbs)

Swing circle 1220 mm (48.03 in)



324 mm (12.76 in)

4 ft | 16-27 rpm | 27-48 rpm HS NKE-2103-4/4HS Weight 34 kg (74.96 lbs)

Swing circle 1320 mm (51.97 in)



6 ft | 16-27 rpm | 27-48 rpm HS NKE-2103-6/6HS Weight 36 kg (79.37 lbs) Swing circle 1910 mm (75.20 in)



System diagram

The radar can be connected to various equipment and sensors onboard a ship. JRC's straightforward configuration assures continuous performance.

Installation cable¹ CFQ-6912-5 (5 m) CFQ-6912-10 (10 m) CFQ-6912-15 (15 m) CFQ-6912-20 (20 m) CFQ-6912-30 (30 m)

¹ 4 kW, 6 kW model available to be use 5/10/15/20 m at 12 VDC power input.

Scanner unit NKE-2043 (4 kW) NKE-2063A/HS (6 kW) NKE-2103-4/4HS (10 kW) NKE-2103-6/6HS (10 kW)



Specifications

MA:SADA

MA:3406

111A-3406H3

10A-3A11-A

MA:3A11.HE

MA-3411.6

MA:3471.6H

IMO compliant	Non-SOLAS							
Frequency	X-band (9410 MHz)							
Range scale	0.0625, 0.125, 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 64, 72 NM³							
Type	Dome			Open				
Scanner								
Model	EME SOLES	44K-2063A	ME3083A18	WE 2103 A	WE 2703 LIPS	ME 3,1036	WE 2103 BIFS	
Antenna length	2 ft.	3.9 ft.		4 ft.			6 ft.	
Transmitting power	4 kW	6	kW	10 kW				
Beam width 3 dB	Hor. 4° Ver. 2.5°	Hor. 2° Ver. 30°		Hor. 1.9° Ver. 20°		Hor. 1.2° Ver. 20°		
Rotation speed	16-48 rpm	16-27 rpm	27-48 rpm	16-27 rpm	27-48 rpm	16-27 rpm	27-48 rpm	
Pulse width / repitation frequency	0.08 µs/4000 Hz ⁴ , 0.08 µs/2250 Hz, 0.13 µs/1700 Hz ⁴ , 0.25 µs/1700 Hz, 0.5 µs/1200 Hz, 0.8 µs/750 Hz, 1.0 µs/650 Hz							
Power consumption (at max wind load)	60 W	180 W	230 W	210 W	360 W	210 W	360 W	

³ 72 NM is only 6 and 10 kW. | ⁴ Only JMA-3404 and JMA-3406/HS.

Screen size and resolution	12.1-inch SVGA color LCD,600x800 dot			
Presentation mode	RM:North-UP / Head-UP / Course-UP TM:North-UP / Course-UP			
Gain	Auto/manual			
Anti SEA/RAIN clutters	Auto/manual			
Trail indication	OFF,15 s,30 s,1 min,2 min,3 min,4 min,5 min,6 min,10 min,15 min,All			
Off center	2/3 radius of PPI			
Target data and AIS				
Tracking target capacity	30 targets			
Guard zone	2 zone (Auto TT: 1 zone)			
Target data	True bearing,range,true course,true speed,CPA,TCPA			
Alarms	CPA/TCPA,new target,lost,system error			
AIS target capacity	100 targets			

Navionics+ on SD cartridges			
3 ports			
1 port			
1 port			
1 port			
2 ports			
ALR, DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MTW, MWV, RMA, RMC, ROT, RSA, THS, VBW, VDO, VDM, VHW, VTG, VWT, VWR			
GGA, GLL, GNS, HDT, OSD, RSD, RMC, TLL, TTD, TTM, THS, VTG			









Centers of Excellence

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