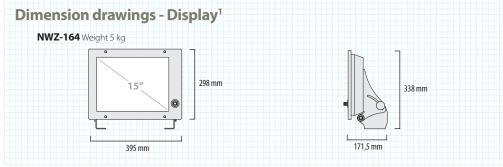
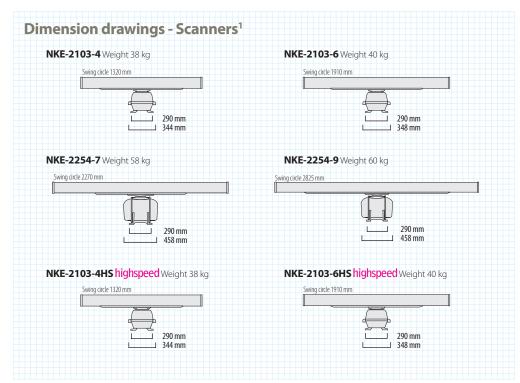
JMA-5200Mk2 series dimensions and weights



shown with optional bracket, **cutout for panel mount** height 262 mm, width 368 mm, depth 150 mm



¹ all scanners have a brushless motor and comply with 40dB/dec Spurious particulars

Dimension drawings - Keyboard, Processor NDC-1460 Weight 6 kg cutout for panel mount height 105 mm, width 340 mm, depth 20 mm

JMA-5200Mk2 series specifications

Model		JMA-5212-4	JMA-5212-6	JMA-5222-7	JMA-5222-9	JMA-5212-4HS	JMA-5212-6HS		
IMO compliant		√	√	√	√	X	Х		
Display				colour	raster scan PPI				
Range scal	le			0.125/0.25/0.5/0.7	5/1.5/3/6/12/24/48/9	6 NM			
Scanners		<u> </u>				-			
	Model	NKE-2103-4	NKE-2103-6	NKE-2254-7	NKE-2254-9	NKE-2103-4HS	NKE-2103-6HS		
	Antenna length	4ft.	6ft.	7ft.	9ft.	4ft.	6ft.		
	Transmitting power		kW	-	5kW		10kW		
	Transmitting frequency			9410MHz ± 30MHz					
	Beam width 3db	Hor. 1.8°, Ver. 20°	Hor. 1.2°, Ver. 20°	Hor. 1.0°, Ver. 20°	Hor. 0.8°, Ver. 20°	Hor. 1.8°, Ver. 20°	Hor. 1.2°, Ver. 20°		
	Rotation speed		rpm		rpm		48rpm		
	Pulse width (receive freq.)	0.08µs/2250Hz,		0.07μs & 0.2μs/2250Hz,		0.08µs/2250Hz,			
	r disc width (receive freq.)	0.25μs/1700Hz,		0.4µs/1400Hz,		0.25μs/1700Hz,			
		0.5µs/1200Hz,		0.8µs/750Hz,		0.5μs/1200Hz,			
		0.8µs/7200Hz,		0.ομs//30Hz, 1.0μs/650Hz,		0.5μs/1200Hz,			
		· ·							
	Duplexer	1.0μs/650Hz 1.2μs/510Hz 1.0μs/650Hz							
	Tuning	circular + diode limiter							
	Ambient condition		tomporative	automatic / manual e -25° to 55°C, relative humidity 0% to 93% non-condensing					
Processor	Ambient condition		temperatur	e-25 (0 55 C, Telativ	Te Humbarty 0% to 95	70 HOH-COHUEHSING			
Tocessor	Model				IDC 1460				
		NDC-1460							
	Bearing indication Presentation mode	north-up / course-up / head-up							
		RM display with true trail, RM display with relative trail, TM display							
	EBL	2 (EBL1/EBL2) (center/independent) 000.0° - 359.9°, digital display							
	VRM Trail indication	2 (VRM1/VRM2), 0.000 - 97.7 NM, digital display 4 stages: short, middle, long, super long (e.g. short: off/0.25/0.5/1/3/6/10/15-min and continuous)							
Diamin. / au			ages: snort, middle, i	ong, super long (e.g.	Short: 011/0.25/0.5/1/	3/6/10/15-min and C	ontinuous)		
Display (or	otional on JMA-5200Mk2 series	 			WA/7 1 C 4				
	Model	NWZ-164							
	LCD	1024 by 768 pixels (XGA)							
	Effective diameter	≥ 180mm							
V la l	Connection cable			5m (pro	cessor-monitor)				
Keyboard		T			CF 7600 A				
	Model		NCE-7699A						
Connection cable		5m (processor-keyboard)							
Installation cable		CFQ-6912-20 standard L= 20m (optional up to 65m)							
Power supply (voltage)		24V DC (21.6V to 31.2V DC) 1) 110V to 230V AC							
Power consumption (at max wind load)		600W 680W 600W temperature -15° to 55°C, relative humidity 0% to 93% non-condensing (processor, display, keyboard)							
Ambient co		tempo	erature -15° to 55°C, i	relative humidity 0%	to 93% non-condens	ing (processor, displ	ay, keyboard)		
Optional it		T			CT 440CA				
2) NSK unit (gyro/log interface)		NCT-4106A							
3) ATA unit (30 targets)		NCA-877A							
3) Performance monitor		NJU-85							
3) AIS interface unit		NQA-2155							
Interswitch cable		CFQ-5251 (5m) + CFQ-5351							
Plotting function board		NDB-44							
AC rectifier		NBA-5111 - AC 100/110/120/220/230/240V							
Cable 10	0/15/20/30/40/50/65 m	CFQ-6912-10/15/20/30/40/50/65							
\ \ C 100_11	15/220-240V (50/60Hz 1Ø), AC i	nower requires rectif	or NRA-5111		All specifications	are subject to chai	nge without notification		

1) AC 100-115/220-240V (50/60Hz 1Ø), AC power requires rectifier NBA-5111 2) Required if no high speed NMEA available

All specifications are subject to change without notification.

3) Performance monitor, Target Tracking, AIS must be fitted on ships compliant to IMO.



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– JRC's new JMA-5200Mk2 runs radar images faster and more efficiently than ever before

15-inch high visibility display **Constaview™ digital signal processing TEF™** multi-level target enhancement **High speed version available Brushless antenna motors for extended lifetime**

JMA-5200Mk2 series performance features

Unique features

• JRC's new JMA-5200Mk2 continues the success of its predecessor, reaching a new level of performance, designed to seamlessly run radar images faster and more efficiently than even before.

Constaview™

The second generation and patented Constaview™ is realised through the use of three high-speed processors (in-house Tornado™ technology). All info gathered by the radar is fully processed within a few milliseconds before displayed, generating a smooth image rotation when sailing in Head-Up mode. When changing to North-Up, the new radar image is displayed without any delay caused by the scanner rotation.

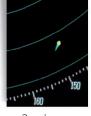
Real time Head-Up mode

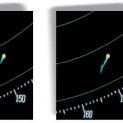


Select a trail length

Other ship's movement and speed can be monitored from length and direction of their trails, primary serving for collision avoidance. The JMA-5200Mk2 integrates four different trail length modes, that will show a ship's course instantly, a unique operational feature that allows for more flexibility. Example real-time processing:







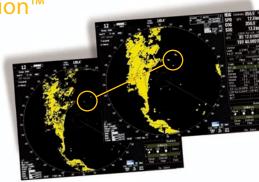






Target Enhancement Function™

Developed exclusively by JRC, TEF™, allows target enhancement relative to the target size. The smaller echoes are far more enlarged than bigger echoes, giving a better on-screen separation and identification.



JMA-5200Mk2 series

developed for maximum ease of use

New keyboard design

With its new case design, the keyboard of the JMA-5200Mk2 series allows you to carry out all radar operations simply by using the keyboard or on-screen by use of the trackball.



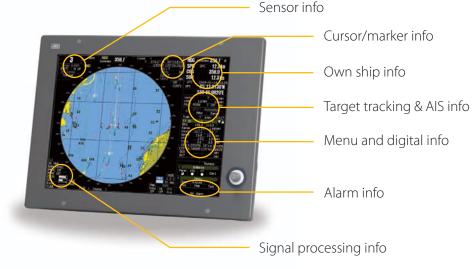
The JMA-5200Mk2 keyboard is solid and responsive, which allows for precise operation. It also integrates function keys for one-touch access to EBL, VRM, GAIN, SEA and RAIN. This makes it easy to navigate through all common

Clear on-screen info

The JMA-5200Mk2 series make your radar images more brilliant than ever with a sharp 15-inch high resolution LCD screen.

Menu selections, via the keyboard or trackball are clearly shown on the display - allowing "at a glance" interpretation of the radar image.

You can also select day and night background modes and adjust the brilliance at your own convenience.



JRC StarNetwork™

JRC has been providing sales and support of products since 1915. Today, JRC offers comprehensive assistance through its organisation, in partnership with a worldwide StarNetwork™ of over 270 fully trained and qualified partners and agents, assisting you 24 hours a day, 7 days a week and 365 days a year.



JMA-5200Mk2 series system flexibility

Flexible black box configuration

The processor unit is the heart of the JMA-5200Mk2, and shares the same simple configuration as its predecessor, contributing to an enhanced system configuration. Optional TT (Target Tracking) function module with up to 30 targets, and or AIS interface, plotter control unit can be built in.



of noises on

Wide dynamic range receiver

The new JMA-5200Mk2 series integrates a wide dynamic range receiver that, compared to conventional models, significantly improves the differentiation of noise and targets under sea clutter. The radar system overcomes different sources of unwanted signals, maintaining a constant level of clutter suppression.

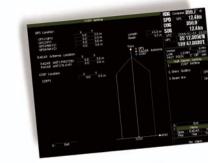
More powerful than ever

Inside the JMA-5200Mk2 are three Tornado™ processors, which are exclusively developed and designed by JRC, bringing a new level of performance and reliability to radar operation. The new Tornado™ processors, which equal the power of twelve conventional processors, and advanced system architecture make the JMA-5200Mk2 series probably the most sophisticated radar available today.

CCRP

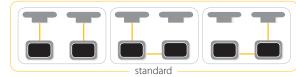
As set by IMO regulations, a Consistent Common Reference Point (CCRP) is a location on own ship, to which all horizontal measurements, such as target range, bearing, relative course/speed, closest point of approach, or time to closest point of approach are referenced.

Where multiple antennas are installed, different position offsets for each antenna in the radar system should be applied with respect to the CCRP. If you switch between scanners (up to 8 possible - option), the information displayed is generated allows for consistency and uniform output. This new feature is easily accessible from the menu.



Standard interswitching

Basic L-type interswitching is standard on the JMA-5200Mk2.



What's standard in the box?

riat 3 staridard in the box;						
Display ¹	Which cables?	Std.	Ma			
Scanner	Display to processor ¹	5 m	5 m			
Keyboard	Keyboard to processor	5 m	25 r			
,	Scanner to processor ²	20 m	65 r			
Processor	Power cable for processor	5 m	5 m			
Cables	Power cable for display	5 m	5 m			

^{6.} Spare parts 7. Manual (English)

¹ not included in black box configuration total distance between scanner and processor must not exceed 65 m