NCR-333
NAVTEX receiver

Complies with latest IMO regulations according to MSC 148 (77).

– high visibility paperless LCD NAVTEX receiver for safer navigation

5.7” high visibility LCD screen

3 receiving frequencies (490, 518 & 4209.5 kHz)

User selectable font style

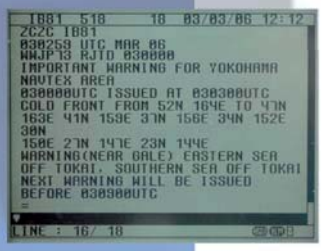
Printer output

Intuitive menu structure

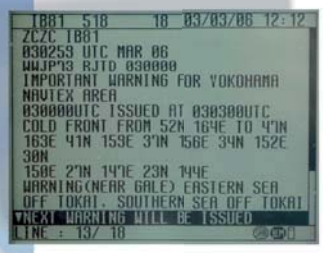
NCR-333
– performance features

Unique features

- The high-performance NCR-333 NAVTEX integrates a high visibility LCD display, shares the same simple configuration as its predecessor and contributes to improved safety at sea.



- Normal (13x9dot)



- Medium (16x9dot)

- Large (20x16dot)

Triple channel reception

The NCR-333 receives NAVTEX broadcasts on the frequency channel 518 kHz, and either 490 kHz or 4209.5 kHz.
The NAVTEX automatically receives broadcasts on the international standard frequency 518 kHz. Local transmissions of NAVTEX use the 490 kHz channel. The high frequency channel 4209.5 kHz is allocated for NAVTEX broadcasts. The NCR-333 also allows you to select and deselect certain types of information and coastal stations with the purpose of avoiding repeat broadcasts.

Optimised view

The NCR-333 NAVTEX integrates a high visibility 5.7" LCD display. You can select the character type on three different level sizes, all at your own convenience. On top, JRC has included dimmer control, maximising your display preferences as optimised as possible. These functions are selectable from the menu.

Message management

The NAVTEX is an international automated service for delivery of navigational and meteorically warnings and forecasts, as well as urgent marine safety information to ships. Given that re-reading certain messages is important, the NCR-333 can store up to 200 messages per channel. These will be available after reception for the next 70 hours. In addition, the NAVTEX allows you to permanently store up to 50 messages, with up to 500 characters per saved message.

Self-diagnosis

After startup, the NAVTEX will automatically run a self-diagnosis and will report any possible problems it might suffer, including cable breach and power problems. This function will allow for easy maintenance and high reliability.

NCR-333
– developed for maximum ease of use

IMO compliant

JRC's NAVTEX receiver complies with the latest IMO performance standards MSC.148 (77). In addition, JRC is continuously developing and evaluating new products, based on future IMO requirements, that will contribute to your future safety and navigation at sea.

Intuitive menu structure

The combination of a large LCD display and simplified push button operation, coinciding with JRC's intuitive menu structure ensures logical, accurate and convenient operation. All received messages are sorted by order of time received. That way, you always have the most up to date broadcast on hand. Operators will easily distinguish the various types of messages based upon ID and icons. For urgent access, you can just as easily pick up a particular message and display henceforth.

StarNetwork™

JRC has been providing sales and support of products since 1915! Today, JRC offers comprehensive support through its organisation, in partnership with a world-wide StarNetwork™ of over 270 fully qualified agents, giving support 24 hours a day, 7 days a week, and 365 days a year!

NCR-333
– system flexibility

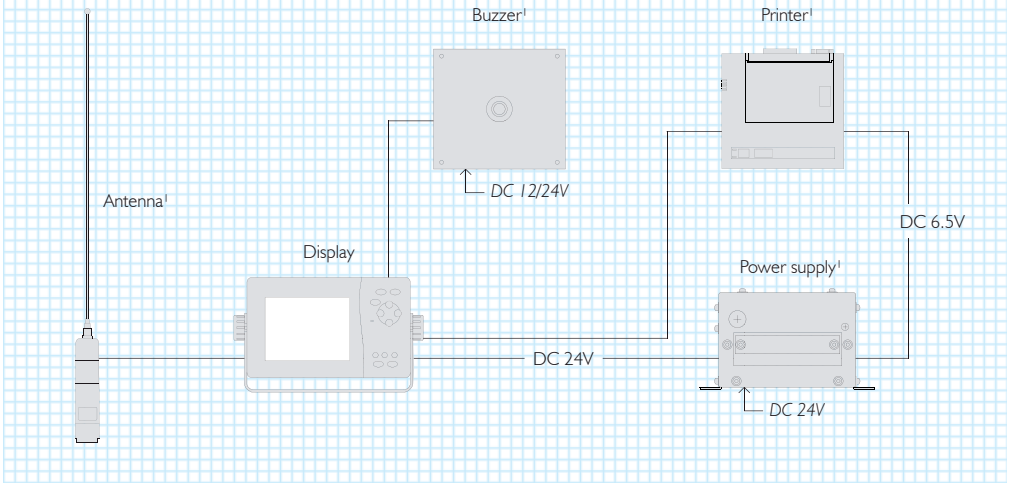
Antenna solution

JRC offers an optional, dedicated active antenna that can be connected directly to the NAVEX receiver. This durable, compact antenna will safeguard all your incoming messages. JRC encourages connecting this dedicated antenna to ensure dependability, however, a major advantage of JRC's NAVTEX system, is that you can use your existing antenna in most cases, facilitating all inward messages consequently.

Flexbile configuration

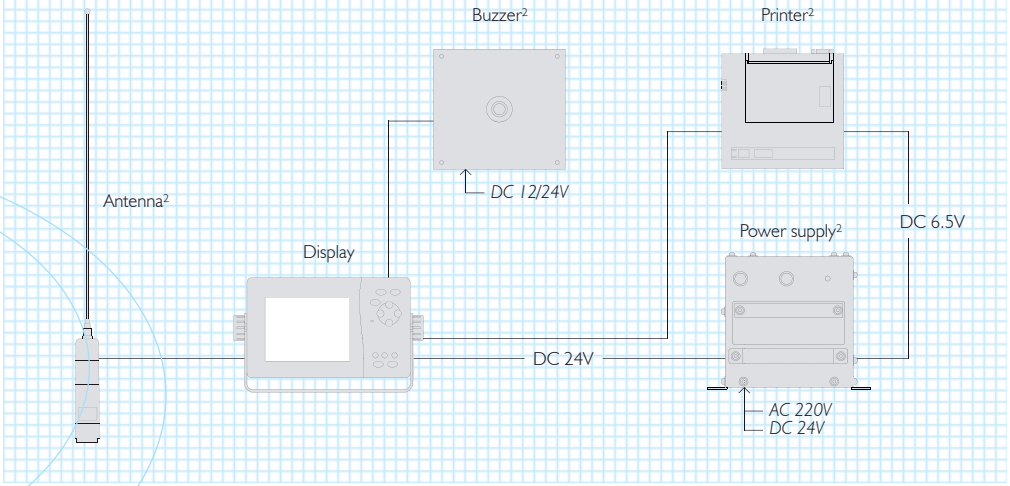
The NCR-333 is paperless but includes the option of a printer (DPU-414) to provide the ships log with valuable printouts if required. In order to connect JRC's proprietary printer, a dedicated power supply is needed. JRC has two types of configurations available, the DC version and AC/DC version.

DC configuration | NBG-319



[1]optional products

AC/DC configuration | NBG-320



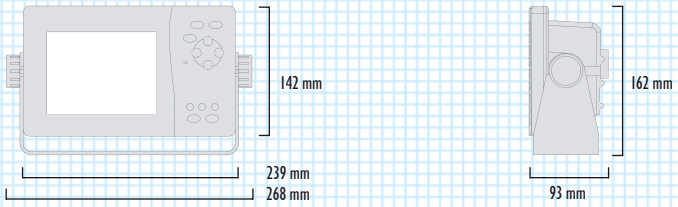
[2]optional products

NCR-333
– dimensions and weights

Dimension drawings - Display

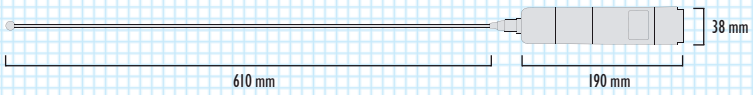
cutout for panel mount
height 116 mm | width 226 mm | depth 73 mm

NCR-333 Weight 2,1 kg



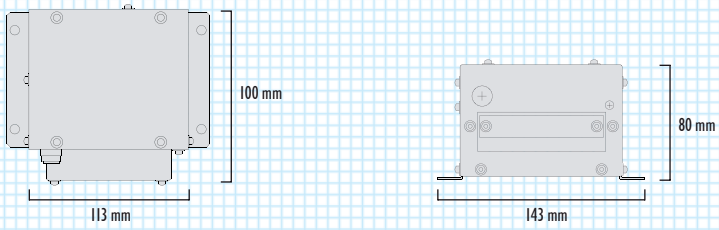
Dimension drawings[1] - Antenna

NAW-333 Weight 0,3 kg

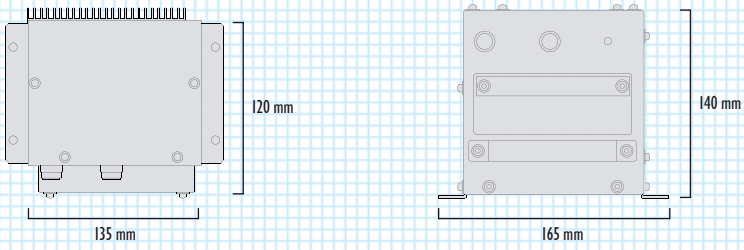


Dimension drawings[2] - Power supply units

NBG-319 Weight 0,9 kg

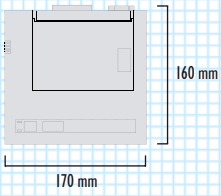


NBG-320 Weight 3,3 kg

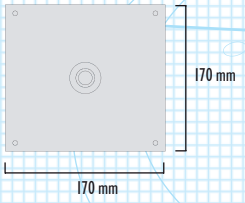


Dimension drawings[3] - Printer, Buzzer

DPU-414
Weight 0,6 kg



CGC-300B
Weight 0,5 kg



[1,2,3]optional products

NCR-333
– specifications

Model		NCR-333
IMO compliant		√
NAVTEX receiver		
	Model	NCR-333
	Receiving frequency	518kHz, 490kHz, 4209.5kHz
	Receiving modulation	F1B NAVTEX broadcast
	Sensitivity	Character Error Rate (CER): ≤ $1x10^{-2}$ at 1uV
	Antenna input	50Ω for NAVTEX antenna
		50Ω for wide-band antenna
		high impedance for wire antenna
	Display model	5.7" FSTN LCD (320x240dot)
	Display dimmer control	bright/medium1/medium2/off
	Input voltage	DC 12 to 24V (+30% -10%)
	Power consumption	9W (at DC 24V input)
	Message log	stores last 200 messages (every channel)
		saves up to 50 messages (every channel)
		stores messages up to 70hours
	External I/F	serial I/F: 2 ports (printer and INS)
	Ambient condition	operating temperature: -15°C to +55°C (IEC 60945)
		storage temperature: -25°C to +75°C
		water resistance: IPX2
Optional items		
NAVTEX antenna		
	Model	NAW-333
	Receiving frequency	518kHz, 490kHz, 4209.5kHz
	Bandwidth	504kHz ±20kHz
		4209.5kHz ±100kHz
	Consumption current	DC 6.5V - 23mA
	Impedance	50Ω
	Ambient condition	operating temperature: -25°C +55°C (IEC 60945)
Power supply unit (DC)		
	Model	NBG-319
	Input voltage	DC 10.8 to 35V
	Output voltage	DC 10.8 to 35V
		typ. DC 6.5V ±10% (for external printer)
	Maximum current	1.5A (12/24V)
		2.0A (6.5V)
Power supply unit (DC/AC)		
	Model	NBG-320
	Input voltage	DC 100-120 to 200-220V ±10%, 50/60Hz single phase
		DC 24V+30% -10% (backup power supply)
	Output voltage	DC 12V ±10%
		typ. DC 6.5V ±10% (for external printer)
	Maximum current	1.5A (24V)
		2.0A (6.5V)
Printer (table mount)		DPU-414
Printer (console mount)		NKG-91
NAVTEX buzzer		CGC-300B

All specifications are subject to change without notification.

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