

# JAX-91

## Weather fax

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*– JRC's new weather fax incorporates a range of advanced user and operational features*

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**15" effective recording width**

**Multiple recording modes available**

**Solid state printing**

**Automatic frequency selection**

**Easy operation and highly reliable read-out**

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*Japan Radio Co., Ltd.*

since 1915

# JAX-91 Weather fax

## – performance features

### Unique features

- The JAX-91 shares the same performance and reliability as its predecessor, but integrates a set of new and enhanced functions, such as an automatic receiver.

### Flexible operation and recording system

The received fax broadcasts are recorded on thermal recording paper, using a thermal head with less moving parts. JRC integrated an automatic frequency selection, allowing for optimised receiving. The JAX-91 can receive in four different modes.

- **Automatic recording** All operations can be remotely controlled to automatically start up, set parameters, receiving images, feed paper, and stop by remote signals from the broadcasting stations. Only halftone recording is manually controlled.
- **Manual recording** You can manually set the index of co-operation (IOC), scanning speed, and the halftone recording. The JAX-91 automatically records the stops in this mode.
- **Forced recording** This is an extensive function of the automatic recording mode. The JAX-91 can manually record while neither in automatic or manual recording mode, also while broadcasting is in progress. Phasing is done manually. It also adopts to a unique system to terminate phase matching instantaneously.
- **Timer programme recording** The period of the start and stop modes, station frequencies, and half-tone on/off are easy programmable. Whilst combined with the fully automatic mode, and unattended, error-free operation is made possible.

### 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.



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#### One number to call

With JRC you can go anywhere and if you need our support, simply call us at +81 3 3492 9201, anytime.

**JAX-91**

**Weather fax – compact and lightweight**

# JAX-91 Weather fax

## – system flexibility

### Fine half-tone recording

Pictures of clouds can be recorded in 16 gradation levels. This digital method ensures high resolution recording, using a proprietary system that finely reproduces maps and latitude and longitude grids with very fine and accurate lines.

### Synthesised receiver

The built-in synthesised receiver is capable of setting any receiving frequency from the ten-key pad, and is able to preset up to 90 spot frequencies in the memory. This feature is very effective when receiving any new broadcast frequency and changing the station frequency.

### Printout of frequencies and programme lists

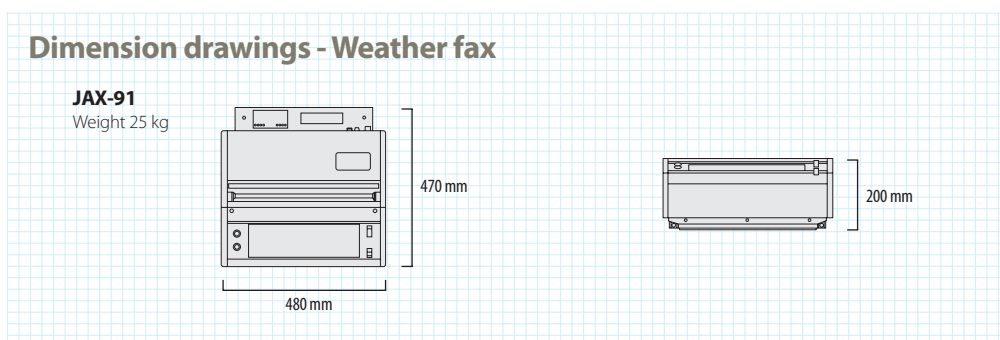
Up to 90 channels of memory frequencies and up to 15 channels of programme lists can be printed out on the recording paper. This function is especially useful for setting programming and checking the stored frequencies.

### Delivering natural imagery

The JAX-91 weather fax provides clear-cut weather charts and satellite images on 15" thermal paper, gathering and generating crucial information under all weather conditions at sea.

### Automatic frequency selection

This weather fax is designed to receive "true copy" broadcasts in the low frequency band (80-160kHz) and in the high frequency band (2-25MHz). A variety of stations transmit different broadcast simultaneously on a number of diverse frequencies. Naturally, the received image quality depends on the radio propagation conditions and the receiving conditions as they are not constant (location, season, day/night time). The JAX-91 integrates an automatic frequency selection to ensure the best receiving conditions are selected to provide the best possible image.



### What's standard in the box?

1. Weather fax
2. Protective cover
3. Spare parts
4. Antenna connector (fitted in weather fax)
5. Recording paper (fitted in weather fax)
6. Manual (English)
7. Meteorological broadcast schedule and explanatory notes

# JAX-91 Weather fax

## – specifications

Model		JAX-91
Functional ability		
	Recording system	solid state thermal head
	Recording paper	1) thermo sensitive recording paper
	Effective recording width	384mm (15")
	Index of cooperation (IOC)	576 or 288
	Scanning speed	60, 90, 120, 180, 240 SPM
	Scanner resolution	8 dots/mm
	Scanning line density	approx. 4.7 lines/mm, 2.4 lines/mm
	Phase matching	automatic and manual
	Halftone recording	16 steps by dither pattern
	Negative/positive record.	manual
	External receiver connect.	0dBm, 600Ω
	Operation modes	automatic, manual, forced, timer programme
	Timer programme channel	15 channels
	Reference oscillator freq.	18874.368 kHz crystal-controlled
	Frequency stability	within $\pm 1.0 \times 10^{-5}$ /day
	Adjust reference oscillator	$\pm 2.0 \times 10^{-5}$ or more
	Tuning indicator	LED indicator with radio interference detector
Synthesised receiver		
	Receiving system	phase locked type frequency synthesised with up-conversion and double super heterodyne type
	Mode of reception	F3C
	Low frequency range	80.0 to 160.0 kHz
	High frequency range	2.0000 to 24.9999 MHz
	Frequency selection	direct selection from keypad
	Frequency memory	up to 90 channels
	Sensitivity	LF: 10μV (+20dBμ) and HF: 2μV (+6dBμ) or less for antenna input to obtain the output of -5dBm at 20dB S/N
	IF selectivity	6dB down point: 2.4 kHz to 3 kHz
		60dB down point: 6 kHz or less
		66dB down point: 10 kHz or less
Environmental conditions		
	Ambient temperature	operation: -15°C to +55°C
		performance: 0°C to +40°C
	Ambient humidity	85% (40°C) or less
Power supply		AC 100V (80 to 132V) and AC 220V (160 to 264V), 130VA or less
Optional items		
Whip antenna (6m)		NAW-60
Joint box (cable insertion Ø11mm)		JQD-69B
Joint box (cable insertion Ø12mm)		JQD-69C
Joint box (cable insertion Ø20mm)		JQD-69J
Coax cable (RG-12/U)		2661111177
Coax cable (7C2V)		2661111125
Recording paper		6ZPTS00127
Backup lithium battery		5ZBBA00013

1) Width 400mm and height 100m per roll

All specifications are subject to change without notification.

For further information please contact:



**Japan Radio Co., Ltd.**

Codar (Pte) Ltd  
315, Outram Road #11-06/07/08,  
Tan Boon Liat Building,  
Singapore 169074

**Tel: +65 65509533 (Main Line)**  
**+65 65509282 (Sales Dept)**  
**+65 65509530 (Service Dept)**  
**Fax: +65 62240890, 65 62234196**