

# 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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# 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™

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# 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

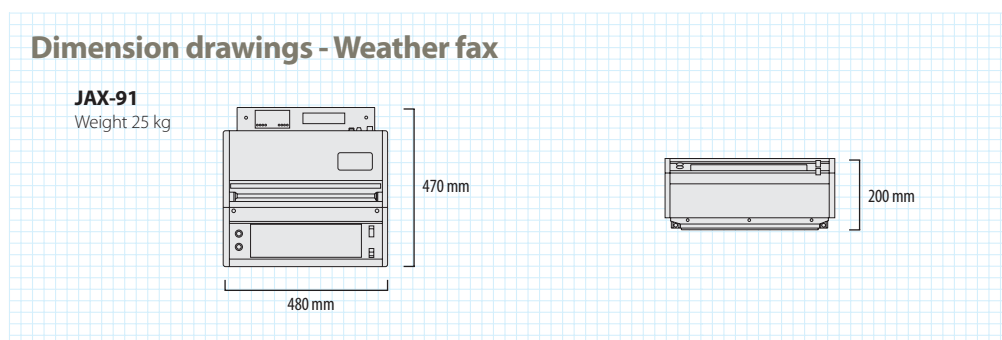
Up to 90 channels of memory frequencies and up to 15 channels of programme lists can be printed out on the recording paper. This function is especially useful for setting programming and checking the stored frequencies.

### 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
<b>Functional ability</b>		
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
<b>Synthesised receiver</b>		
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
<b>Environmental conditions</b>		
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
<b>Optional items</b>		
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:



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