

JAX-91 Weather fax



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

15" effective recording width

Multiple recording modes available

Solid state printing

Automatic frequency selection

Easy operation and highly reliable read-out

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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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

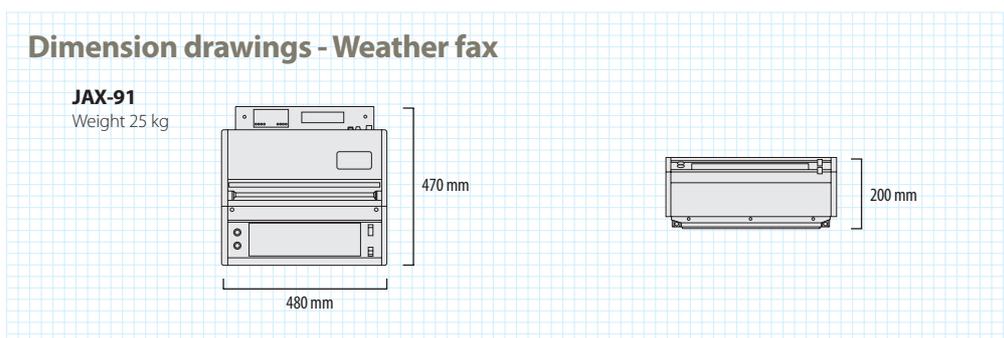
Up to 90 channels of memory frequencies and up to 15 channels of programme lists can be printed out on the recording paper. This function is especially useful for setting programming and checking the stored frequencies.

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.

JRC

Cessnalaan 40-42

1119 NL, Schiphol-Rijk, The Netherlands

T +31 20 6 580 750

F +31 20 6 580 755

E sales@jrceurope.com

W www.jrceurope.com