

# JRC RADIO FACSIMILE RECEIVER

## JAX-90

*A 15-Inch Wide Weather Facsimile  
With Upgraded Features*



# More Compact, More Lightweight, Easier To Use

The JAX-90 Weather Facsimile Receiver is newly designed for upgraded features to replace the conventional model, JAX-79. The JAX-90 features its increased program capacity, printout of program lists, and high-resolution recording. Moreover, the 15-inch chart recorder is more compact, more lightweight and easier to use than the JAX-79.



## FEATURES

### ● Flexible Operation

The JAX-90 can operate in four start and stop modes for transmitted patterns from broadcast stations, purposes of facsimile receiving and recording status:

- (1) Fully automatic: All operations from start to stop are controlled by the remote control signal under WMO Recommendation, ensuring error-free recording.
- (2) Semi-automatic: Automatic phasing and start by manually setting an index of cooperation and a scan speed.
- (3) Manual: Start and stop, and phasing are manually made, but in a unique method enabling momentary phasing.
- (4) Programmed: With the internal timer, the times of start and stop, start and stop modes, station frequencies, half-tone on/off are programmable. When combined with the fully automatic mode, unattended, error-free operation is available.

### ● Fine Half-Tone Recording

Pictures of clouds can be recorded in 16-level half-tone gradations by dithering. This digital method ensures high-resolution recording to represent even very fine lines so clearly that it is compared to analog pictures.

### ● Synthesized Receiver

The built-in synthesized receiver is capable of setting any receiving frequency from ten-key pad and presetting up to 100 spot frequencies in the memory. This feature is very effective when receiving any new broad-

cast frequency and changing the station frequency.

### ● Printout of Frequencies and Program Lists

Up to 100 channels of memory frequencies and up to 15 channels of program lists can be printed out on the recording paper.

### ● Maintenance-Free and Low-Cost

The JAX-90 uses no consumables such as a stylus unit which needs exchange and adjustment, except for recording paper. So it is not only free of dust and smell, but also maintenance-free. The thermosensitive recording paper is at a cost less than half that of the conventional electrosensitive paper.

### ● Quality Pictures

The effect of radio interference such as multi-pass echo and fading can be detected and indicated (RCV MONITOR) for effective frequency selection and for judgement of recording quality.

### ● Compact, Lightweight Design

The JAX-90 is remarkably compact and lightweight. Its weight is 25% less, and its volume is 20% less than the conventional 15-inch facsimile recorders, ensuring ease of handling and use.

## SPECIFICATIONS

### ● Facsimile Recorder

Recording system	Solid-state scanning by thermal head
Recording paper	Thermosensitive 400mm(W) × 100m(L)/roll
Effective scanning line	384mm
Index of cooperation	576 and 288
Scanning speed	60, 90, 120, 180 and 240 spm
Scanning density	Approx. 4.8 lines/mm (576) or approx. 2.4 lines/mm (288)
Scanning resolution	8 dots/mm
Master oscillator frequency	5898.240kHz (independent synchronization)
Frequency stability	Within $\pm 1.2\text{kHz} \times 10^{-5}/\text{day}$
Phasing	Automatic/manual
Frequency shift tuning	Multi-LED indicator with interference detector
Signal input	1900Hz $\pm$ 400Hz, 600 ohm
Start and stop modes	(1) Fully automatic-Selection of IOC and scan speed, phasing, recording start and stop, and paper feed (2) Semiautomatic-Automatic phasing, recording start and stop by manual setting of IOC and scan speed (3) Full manual (4) Programmed-See below

### ● Synthesized Receiver

Receiving system	Double superheterodyne with PLL frequency synthesizer
Mode of reception	F3C

Frequency range	LF 80.0kHz - 160.0kHz HF 2MHz - 24.9999MHz
Frequency display	6-digit LED readout from 100Hz
Station selection	Frequency setting from ten-key pad
Frequency memory	Up to 100 spot frequencies presettable from ten-key pad
Frequency bands	Automatically selectable from 5 bands
Sensitivity	LF $10\mu\text{V} (+20\text{dB}\mu)$ or less HF $2\mu\text{V} (+6\text{dB}\mu)$ or less for $-5\text{dBm}$ output at 20dB S/N
Image rejection ratio	70dB or more
IF selectivity	2.4 - 3.0kHz at 6dB down 6kHz or less at 66dB down
ISB reception	With Up/Down switches
Signal output	0dBm at 600 ohm
Output frequency	1900Hz $\pm$ 400Hz

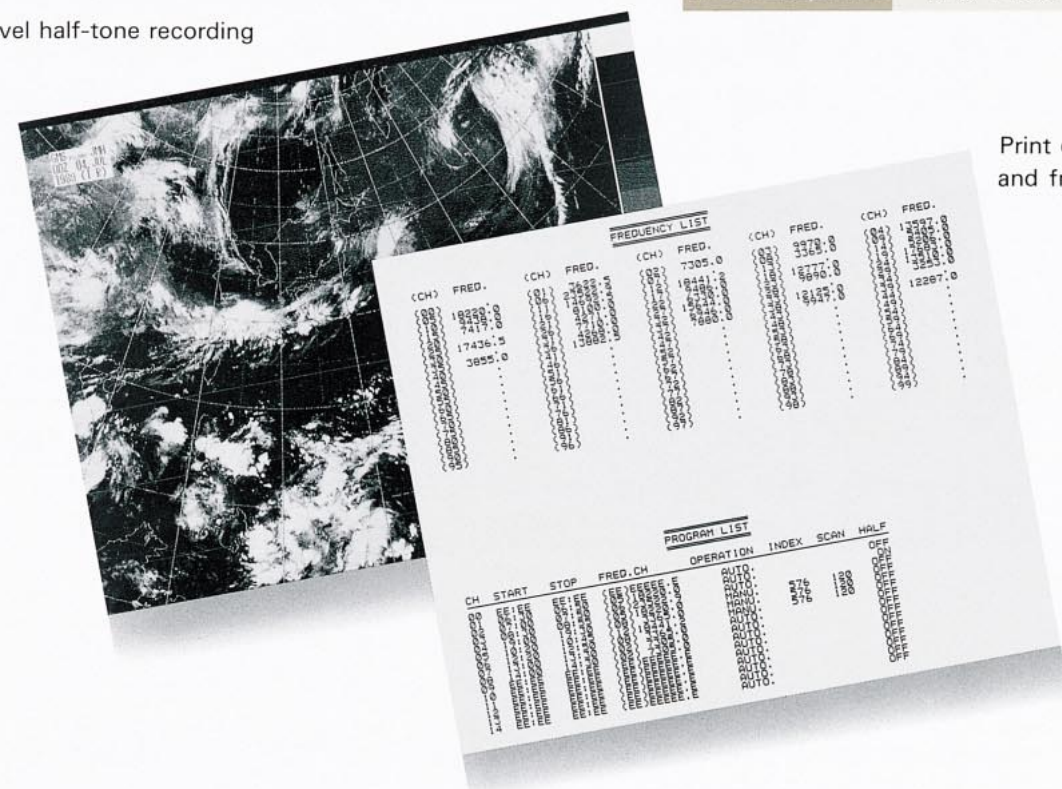
### ● Programmable Facility

Memory channels	15 channels
Contents of memory	Times of recording start and stop, receiving frequency, fully automatic/semiautomatic mode, IOC, scan speed and half-tone on/off
Storing method	Keying from ten-key pad and function keys

### ● General

Power supply	80 - 132VAC or 160 - 264VAC, 50/60Hz, single-phase, 130VA or less
Ambient temperature	-10 to +45°C

16-level half-tone recording

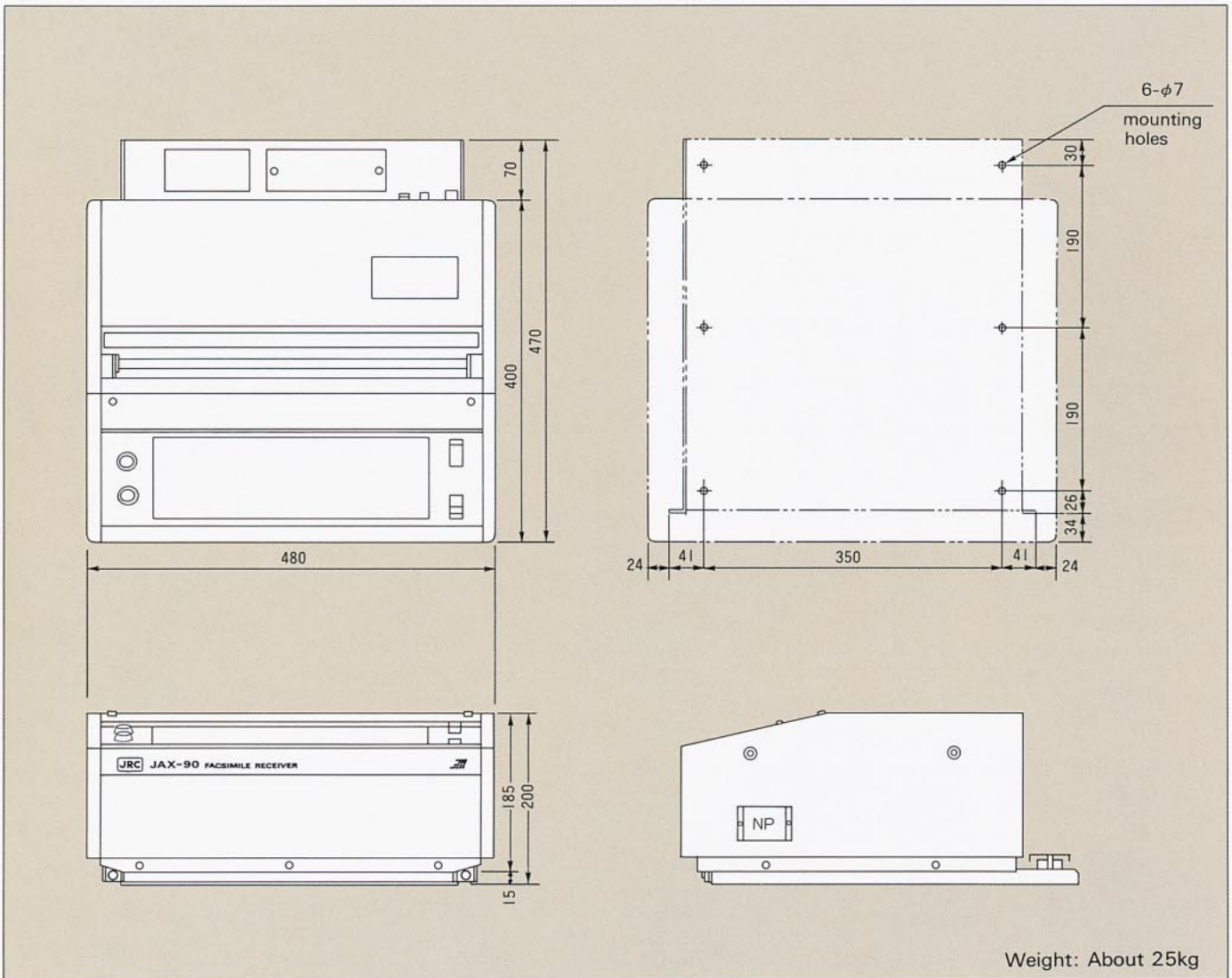


Print out of program and frequency lists

# COMPONENTS

Facsimile Receiver .....	1
Protective Cover .....	1
Standard Spare Parts .....	1 set
Test Data .....	1 copy
Operation Manual .....	1 copy
Technical Reference Book .....	1 copy
Table of Broadcast Schedule .....	1 copy

# DIMENSION(mm)&WEIGHT



Specifications subject to change without notice.

For further information, contact:



**Japan Radio Co., Ltd.**

Since 1915 JRC Homepage <http://www.jrc.co.jp/>

**Main Office:** Akasaka Twin Tower(Main), 17-22, Akasaka 2-chome, Minato-ku, Tokyo 107-8432, JAPAN

Telephone: Tokyo(03)3584-8789, 8832

Facsimile: Tokyo(03)3584-8795

Telex: 2425420 JRCTOK J Cable: JAPANRADIO TOKYO

**Overseas Branches :** Seattle, London, New York

**Liaison Offices :** Kaohsiung, Manila, Bangkok,

Singapore, Jakarta, New Delhi, Rotterdam, Piraeus,

Las Palmas, Rio de Janeiro



**ISO 9001**

Certificate No. JQA-0591

Certificate No. FM 30249



17EM