

JRC Japan Radio Co., Ltd.

A High-Class, General Coverage Receiver

The NRD-525 Communications Receiver is now offered by JRC to change your shack into a new universe. The traditional radio technology unique to JRC is combined with the most advanced digital technology to develop the sophisticated communications receiver with a PLL frequency synthesizer and a microprocessor.





FEATURES

Wide Frequency Range

The NRD-525 can receive a wide range of frequencies covering the MF/ HF/VHF/UHF bands. Its general coverage is from 90kHz to 34MHz. With an optional plug-in VHF/UHF converter, the receiver can

operate in the ranges of 34 - 60 MHz, 114 - 174 MHz and 423 - 456 MHz, ensuring its use for various applications.

Large Memory Capacity

The receiver incorporates a CMOS-RAM backed by a lithium battery. This memory has a large capacity of 200 channels, each channel storing data on frequency, mode, bandwidth, AGC, and ATT.

Scan Reception

If a start channel and an end channel are assigned, all the channels between both are scanned. The scan speed and the automatic stop level can be adjusted. • Sweep Reception

If a start frequency and an end frequency are assigned, all the frequencies

between both are swept. The sweep speed a • Teletype Reception With on optional plus in RTTV demodulate

With an optional plug-in RTTY demodulato tion in conjunction with a printer for perso interface).

Electronic Tuning

The receiver employs the a professional receivers. This sy capacitor diodes which is con tuning improves antenna mato O Direct Access Tuning

Any frequency can be select from the ten-key pad speedily • Wide Dynamic Range

The use of a gate-grounded, circuit ensures a wide dynamic



With Expandability Looking to the Future.

The new receiver is also designed for expandability to meet today's needs for compatibility with teletype reception and personal computers. You will find satisfaction in its cost performance and easy-to-operate design.



ind the automatic stop level can be adjusted.

, the receiver can be used for teletype recepnal computers (compatible with Centronics

utomatic tuning system developed for JRC stem consists of a double tuning circuit with trolled by a microprocessor. The electronic hing, selectivity and other characteristics.

ed not only by the main tuning control, but also

push-pull FET mixer and an electronic tuning ange to improve multiple signal characteristics.

Clock/Timer

The receiver incorporates two clocks which can be used for local time and UTC (GMT). They can also be used as timers to control any associated equipment such as a tape recorder. o Interface with PC

A personal computer can be connected to this receiver through RS-232C interface (option). Under the PC control, the receiver can be operated as a programmable receiver by entering frequency, mode, bandwidth, time and other data into a program. • Fully Solid-State, Modular Design

The receiver is manufactured by the newest automated production technology, employ-

ing chip components throughout, in order to assure uniform quality and cost reduction. Its completely modular design with plug-in PC boards ensures high reliability and serviceability.



SPECIFICATIONS

range	cy 0.09 - 34MHz 34 - 60MHz (*1) 114 - 174MHz (*1) 423 - 456MHz (*1) RTTY, CW, SSB(USB/LSB) AM, FM, FAX		Selectivity			AF output	Speaker: 0.5W or more (at 4Ω	
			Attenuation Bandwidth	6dB	60dB		load and 10% distortion) Line/Recording: 1mW or more (at 600Ω load and 10%	
Receiving mode			AUX 12kHz or WIDE 4 kHz or		more 10kHz or less	Antenna input attenuation	distortion) Approx. 20dB for HF Approx. 10dB for VHF/UHF (*1)	
Channel memory Receiving system Sensitivity		INTER 2 kHz or more 6 kHz or less NARR 1 kHz or more 3 kHz or less (*3.) FM 12kHz or more 1 Image frequency rejection 70dB or more Intermediate fre- quency rejection 70dB or more		or more 3 kHz or less (*3.)	AGC characteristic	Output variation is 10dB or less for antenna input variation		
				Power supply	of 3µV to 100mV. 100/120/220/240VAC ±10% max 35VA			
						12 – 16VDC (13.8V, standard), max. 25W		
	RTTY, FAX CW, SSB	AM	FM	Frequency st Dynamic rang	ability ±3 ge 10	3 PPM 0dB or more (500Hz in IF	Auxiliary circuits	Noise blanker, S-meter, side- tone input, mute input, trans-
0.09 - 1.6MHz 1.6 - 34MHz 34 - 60MHz 114 - 174MHz	5.0µ∨ 0.5µ∨ 1.0µ∨ 1.0µ∨	15µ∨ 2µ∨ 3µ∨ 3µ∨	0.7μV 1.5μV (*1.) 1.5μV (*1.)	PBS variation Notch attenus BFO variation	ation -3 range 45	nd) kHz or more 0dB or more 5kHz ± 2kHz or more		mission monitor, squeich dimmer, tone control, clock timer, IF notch filter, pass banc shift
425 - 445MHz	1.0µ∨	3µ∨	1.5µV (*1.)	RIT variation Nominal ante		škHz or more 19 — 34MHz	Dimensions	330(W) × 130(H) × 280(D) (excluding projected parts)
N - 10dB AF out	put = 100m	W band	width - INITED	impedance		50Ω (Lo-Z terminal) 600Ω (Hi-Z terminal)	Weight	Approx. 8.5 kg
S/N = 10dB, AF output = 100mW, bandwidth = INTER modulation = 400Hz, 30% (in AM) NQL = 20dB (in FM)			34 - 60MHz 50Ω (VHF terminal)(*1) 114 - 174MHz 500 (VHF terminal)(*1)		NOTES: *1: With option mount *2: With an optional If	filter (e.g. CFL-231)		
intenna impedance	= 50Ω				42	50Ω (VHF terminal)(*1) 3 - 456MHz 50Ω (UHF terminal)(*1)	*3: With the CFL-233	1 width for 6dB is 0.3kHz. optional IF filter.
423-456MHz		CHE-85	7	CGA-118		12.8MHz		
34-60MHz VHF ANT					CAL DSC	FLS		AF AMP
VHF ANT 0					2011 MIX 455			AF AMP TONE AF GAN TONE AF
0.00	2008			AND 70.45399				
0.00-34MHz MF-HF ANT Lo-Z. O H+.Z. O					2nd M0X 455			AF AMP TONE AF GAN TONE AF
				AAND 70.45399- 70.45399- -0+ - ASSMAR AGO AGO AGO AGO AGO AGO AGO AGO	2nd MIX 455 BB 500- 65,52855MHz	Here <td< td=""><td></td><td>AF AMP TONE TONE AND PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES AC</td></td<>		AF AMP TONE TONE AND PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES PHONES AC
VHF ANT 0.000-540Hz Lo-Z H-Z GND 0 T				AAND 70.45399- 70.45394- 70.4539- 70.4539- 70.4539- 70.4539- 400 400	2nd MIX 455 BB 500- 65,52855MHz	THROUGH HE PH CATE PH CATE		

Options

1.	V-UHF CONVERTER	CMK-165
2	RTTY DEMODULATOR	CMH-530
3	PRINTER CABLE	6ZCJD00139
4	RS-232C INTERFACE	CMH-532
5	RS-232C CABLE	6ZCJD00140
6	IF FILTER (0.3kHz)	CFL-231
7	IF FILTER (0.5kHz)	CFL-232
8	IF FILTER (1.0kHz)	CFL-233
9	IF FILTER (1.8kHz)	CFL-218A
10	SPEAKER	NVA-88
11	HEADPHONE	ST-3

* Specifications subject to change without notice.

Rear Panel

- MF/HF ANT Lo-Z (low impedance) connector 36 ANT switch MF/HF ANT HI-Z (high
- impedance) terminal, GND (grounding) term INE OUT (line output)
- jack 39 EXT SP (external
- speaker) jack
- MUTE jack
- Jack for RTTY indicator I DC power connector Connector for RS-232C AC power connector

terminal

49 AC fuse, voltage selector 50 VHF ANT connector

I DC OUT (DC output) jack

ITIMER OUT (timer output)

PRINTER connector

UHF ANT connector

For further information, contact.

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