



# RADIOWORLD

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## Second Hand JRC NRD545 DSP Communications Receiver **£1199.00**

### DESCRIPTION

Second Hand JRC NRD545 DSP Communications Receiver, If you had the opportunity to look into the radio room of most ocean going commercial ships, chances are the integrated bridge, radar and Inmarsat equipment would be made by the Japan Radio Company. This company founded in 1915, is clearly the leading manufacture of top quality commercial maritime radio communications equipment in the world. The JRC NRD-545 DSP is the latest receiver in this very long and very proud tradition. And the '545' may be the finest receiver they have ever offered. The substantial size and ergonomic layout, make this receiver a pleasure to operate. Intuitive knob layout, a conventional keypad, and separate buttons means that this receiver is comfortable and straightforward to operate. You won't find a button on the NRD-545 with six different functions! The multicolored display, is the clearest and most attractive in the industry.

Despite its outward good looks, the real power of this receiver is inside. The NRD-545 DSP is different from any receiver you have previously owned. Clear, distortion-free sound reproduction is possible through the magic of true digital signal processing at the IF level. The receiving system employs a triple conversion circuit with IFs at 70.455 MHz, 455 kHz and 20.22 kHz. The NRD-545 uses a 40-bit extended floating point Digital Signal Processor with an 18-bit over-sampling system A/D converter and a 16-bit D/A converter. The DSP functions on 13 types of circuits after the IF, previously configured using analog circuits. DSP is used for all-mode detection including AM synchronous detection (ECSS). Incredible selectivity characteristics are achieved by the use of an Infinite Impulse, structure concurrent Chebyshev-type digital filter. In English this means, the NRD-545 gives you a continuously variable bandwidth from 10 Hz to 10 kHz in 10 Hz steps. You virtually have 990 different bandwidths, each with excellent adjacent channel rejection. DSP is also used to control Pass Band Shift, another tool to reduce QRM. A 256 step DSP Noise reduction circuit and 256 step DSP Beat Canceller and DSP Auto-Track Notch are other new tools in your arsenal to dig out difficult DX signals. The DSP AGC works in all modes and is continuously variable from .04 to 5 seconds in SSB/CW/RTTY. 1000 Memories store: frequency, mode, bandwidth, ATT, AGC and step. Other refinements include: keypad, DSP

Squelch, RS-232 port, ECSS, Dial Lock, Tone, RF Gain, Scan, Sweep, Mute, Dimmer, Clock-Timer, Adjustable Dial Torque, Attenuator, modular construction and two Noise Blankers. A basic Baudot RTTY demodulator, feeding the RS-232 port, is even included. You may customize many functions of the receiver by simply pressing the [FUNC] key followed by the [ENT/kHz] key. Twenty five parameters may be set to your personal needs. [Click here to view user setups.](#) The NRD-545 operates from several power sources including: 100, 120, 220 or VAC  $\pm$  or from 12 to 16 VDC (13.8 VDC). This switch is located on the rear panel. The supplied accessories include a DC power cord, spare fuse and various plugs.

The NRD-545 is without question, the most sophisticated receiver ever developed for the hobby market. (Please note that this radio does not receive the FM broadcast band).