



Japan Radio Co., Ltd.

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JST-135HP HIGH PERFORMANCE HF TRANSCEIVER

JRC's special High Performance HF transceiver package. All the advanced features found on the standard JST-135 combined with its best accessories—for a single low price. Suggested US list price **\$3345.00**

HIGH PERFORMANCE FEATURES

- **BANDWIDTH CONTROL (BWC)** - Utilizes two Direct Digital Synthesizers to narrow the bandwidth of any selected IF filter in 10 Hz steps.
- **NOTCH FOLLOW FILTER** - Keeps frequency of notch locked onto offending heterodyne interference, requiring no re-tuning if VFO is adjusted.
- **AM ECSS** - Phase lock detection enhances reception of AM signals, and allows selection of upper or lower sideband without critical zero-beat tuning.
- **HIGH STABILITY CRYSTAL OSCILLATOR** - Superb frequency stability within ± 0.5 ppm (at -20°C to $+50^{\circ}\text{C}$).
- **EXTERNAL POWER SUPPLY** - Matching unit provides +13.8VDC @30A.
- **DELUXE HAND MICROPHONE** - 600 Ω nominal impedance, up/down buttons.

STANDARD JST-135 FEATURES

- **PASSBAND SHIFT** - Adjusts center frequency of filter passband to reject unwanted interfering signals.
- **VARIABLE RF TUNING** - Microprocessor controlled preselection of receiver front-end. Also activated in transmission to eliminate spurious radiation.
- **ONE-CHIP DDS IC** - PLL circuitry based on JRC's own single-IC Direct Digital Synthesizer. DDS enhances T/R switching times and ensures high C/N.
- **LOW-DISTORTION POWER AMP** - A class-A driver stage with same transistor as final stage, plus a large combiner-transformer reduces third- or higher-order intermodulation distortion (IMD). Three stages of Chebyshev type low-pass filtering suppresses harmonics.
- **ALL-MODE GENERAL COVERAGE RECEIVER** - Continuous frequency coverage from 100 kHz to 30 MHz. Receive and transmit operation in USB, LSB, AM, CW, AFSK and FM modes (transmission possible only on authorized amateur bands).

- DUAL DIGITAL VFO - Permits split operation on two different frequencies and in different modes.
- ADVANCED MICROPROCESSOR CONTROL - 200 memory channels store frequency, mode, AGC (fast, slow or off), filter and attenuator settings. Memory scanning and frequency sweep functions with user-defined speed and pause level parameters. Optional RS-232C interface links JST-135HP to personal computer or NRD-525 HF receiver.
- RAZOR SHARP SELECTIVITY - Standard high quality IF filters include 6 kHz ceramic, 2 kHz mechanical and 1 kHz crystal. Filters combined with BWC provide maximum flexibility. One additional position available for users choice of optional 300 Hz, 500 Hz, 1.8 kHz or 2.4 kHz crystal filter. (A second optional crystal filter can be added by replacing the 1 kHz filter.)

JST-135HP SPECIFICATIONS

For full specifications, please see the JST-135 color brochure.

The JST-135HP is a special package consisting of the following items:

JST-135 HF Transceiver	NBD-520 Power Supply
NVT-58 Deluxe Hand Mic	CFL-233 1.0 kHz Crystal Filter
CFL-243 Bandwidth Control Unit	CDD-366 Notch Follow Unit
CMH-742 Daughter Board	CMF-78 ECSS Phase Lock AM Unit
CGD-135 High Stability Crystal Oscillator	

OPTIONAL EQUIPMENT

NFG-230 Automatic Antenna Tuner	NFG-97 Antenna Tuner
NVT-56 Desk Microphone	NVT-57 Hand Microphone
NVA-88 External Speaker	CCL-212 Tone Squelch Unit
CMH-741 RS-232C Interface	CFL-218A 1.8 kHz Crystal Filter
CFL-231 0.3 kHz Crystal Filter	CFL-232 0.5 kHz Crystal Filter
CFL-251 2.4 kHz Crystal Filter	ST-3 Headphones
CFQ-3003 Transceive Cable Kit (for linking with NRD-525 receiver)	KY-3A Telegraph Key

JST-135 Service manual and CMH-365 Extender Board also available.

FOR MORE INFORMATION

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