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Second Hand Icom IC-R8600 SDR Receiver

£2099.00

DESCRIPTION

Second Hand Icom IC-R8600 SDR Receiver is a super wideband Communication receiver that covers the radio spectrum from 10 kHz to 3 GHz. It also has the capability to decode selected digital communication signals including, D-STAR, NXDN, dPMR and P25. The IC-R8600 incorporates the latest software demodulation technology incorporated on Icom's latest HF Amateur radios, providing superior performance and intuitive operation. With the optional remote control software for a Windows PC, received audio and spectrum scope data can be transferred through an IP network for monitoring from remote locations.

10 kHz to 3 GHz Super Wideband Coverage The IC-R8600 decodes various digital signals including P25 (Phase 1), NXDN, dPMR, D-STAR, Japanese DCR (Digital Convenience Radio) as well as receives conventional analogue signals such as USB, LSB, FSK, CW, AM, S-AM (Synchronous-AM), FM and WFM modes, covering 10 kHz to 3 GHz wideband in 1 Hz steps.

Absolute Value of RSSI (Received Signal Strength Indicator) The IC-R8600 shows S-meter, dB , dB (emf) and dBm meter types in the RSSI. The dB , dB (emf) and dBm meter has a high ± 3 dB accuracy* (between 0.5–1100 MHz) that can be used for measuring signal strength level.
* Less than ± 6 dB between 1100–3000 MHz.

Software Demodulation in FPGA Processing The IC-R8600 utilizes FPGA (Field Programmable Gate Array) and DSP units for demodulation, decoding and most of signal processing. Direct HF signals and intermediate frequency signals, which are converted from VHF/UHF signals, are digitized in a 14-bit A/D converter and transferred to the FPGA and DSP for optimal processing. The high-rate 122.88 MHz sampling frequency used for the A/D converter results in superior aliasing and image reception reduction.

Superb Receiver Performance The IC-R8600 has 11 discrete RF bandpass filters in the HF bands and 13 bandpass filters in the VHF/UHF bands. To prevent overflow, only the intended signal is

frequencies within the scope range, and helps you to select these. (* Approximate)

adjustment • Dial lock and panel lock • CI-V remote control commands

Quick, Smooth and Intuitive Operation To efficiently acquire intended signals, the IC-R8600 user interface provides quick and accurate operation. The large 4.3-inch colour display, with touch screen function, is configured to collect operating information. By tapping indications and icons on the screen, the setting menu will pop up and parameters can easily be adjusted. When either the DIAL A, B or C multi-function control knobs is pushed, various functions, such as scan speed, RF gain, audio tone, display backlight or other menus will pop up on the display.

SD Card Slot for Receiver Recorder The recorder function can record received audio onto an SD card in WAVE format. The recorded voice audio can be played back on the receiver or a PC. When a 32 GB SD card is used, up to 270 hours of recording is possible. In addition, the screen capture function saves a snap shot of the screen in PNG or BMP format on the SD card. * An SD card is required separately

Remote Control Function through IP Network or USB Cable The optional RS-R8600 PC remote control software allows you to listen to received audio and control most of the receiver functions, including the spectrum scope, through an IP network or USB cable.

I/Q Signal Output The I/Q signal output function* allows you to derive digital IF signals from the I/Q output jack. It can be used for analyzing spectrum or decoding signals. * This function will be provided with future firmware update. Third-party software may be required separately.

Other Features • 3 antenna connectors: an SO-239 type and a phono (RCA) connector for HF and a type-N connector • Clock and NTP function • Centre tuning meter and digital auto frequency control (AFC) for FM, WFM and digital modes • Voice synthesizer function • Audio tone functions: HPF/LPF, bass, treble and de-emphasis • Decode multiple digital code used in digital mode • IP+ function improves 3rd order intercept point performance • Main dial friction