Revolutionary
The Real HF Fun Starts Here

The SD card shown in the photo is not included.
IC-7300 – The Innovative HF Transceiver with High Performance Real-Time Spectrum Scope

**Class Leading Real-Time Spectrum Scope**

The IC-7300’s real-time spectrum scope is class-leading in resolution, sweep speed and dynamic range. While listening to received audio, you can check the real-time spectrum scope and quickly move to an intended signal. When you first touch the scope screen around the intended signal, the touched part is magnified. A second touch of the scope screen changes the operating frequency and allows you to accurately tune.

**Real-Time Spectrum Scope Specifications**

- **Scope system**: FFT (Fast Fourier Transform)
- **Sweep speed**: Max. 30 frames/second (approx.), Selectable from slow, mid or fast
- **Span width**: 9kHz–1000kHz
- **Resolution**: 1 pixel minimum (approximately)
- **Movement display area**: Vertical axis 80dB
- **Reference level adjustment**: -20dB to +20dB
- **USB baud rate (MAX) 115.2Kbps fast 10 seconds**
- **Other functions**: Averaging indication, touch screen operation, FFT scope/Chirp/Link setting

**High-Resolution Waterfall Function**

The combination of the waterfall function and the real-time spectrum scope assists in maximum receive performance of the IC-7300 and increases QSO opportunities without missing weak signals. The waterfall function shows a change of signal strength over a period of time and allows you to find weak signals that may not be apparent on the spectrum scope.

**Audio Scope Function**

The audio scope function can be used to observe various AF characteristics such as microphone compressor level, filter width, notch filter width and keying waveform in the CW mode. Either the transmit or receive audio can be displayed on the FFT scope, with the waterfall function and the oscilloscope.

**Multi-Dial Knob for Smooth Operation**

The combination of the multi-dial knob and the touch screen offers intuitive operation. Using the software keypad of the touch screen, you can easily set various functions and edit memory contents.

**SD Memory Card Slot for Saving Data**

The IC-7300 can store various contents into SD card such as received and transmitted audio, voice memories, RTTY/CW memories, RTTY decode logs and captured screen images. Personal and firmware updating data can also be stored to the SD card for easy setting.

**Spectrum scope + waterfall**

**Class Leading RMDR (Reciprocal Mixing Dynamic Range) and Phase Noise Characteristics**

The IC-7300’s RMDR is improved to about 97dB* (typical value) and Phase Noise characteristics are improved about 15dB (at 1 kHz frequency separation) compared to the IC-7200. The superior Phase Noise characteristics reduce noise components in both receive and transmit signals.

* At 1 kHz frequency separation (received frequency: 14.2MHz, MODE: CW, IF BW: 500Hz)

**Built-In Automatic Antenna Tuner**

The antenna tuner memorizes its settings based on your transmit frequency, so that it can rapidly tune when you change operating bands. The Enforced Tuning function* allows a wide range of temporary antennas to be tuned.

* Do not use the Enforced Tuning function except in case of an emergency.

**Superior Sound Quality**

To offer superior sound quality, a new speaker unit has been incorporated and is allocated dedicated space in the aluminum die-cast chassis.

**Large Touch Screen Colour TFT LCD**

The large 4.3 inch colour TFT touch LCD offers intuitive operation. Using the software keypad of the touch screen, you can easily set various functions and edit memory contents.

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**New “IP+” Function**

The new “IP+” function improves 3rd order intercept point (IP3) performance. When a weak signal is received adjacent to strong interference, the AD converter is optimized against signal distortion.

**15 Discrete Band-Pass Filters**

The IC-7300 has 15 discrete RF band-pass filters. The RF signal is only passed through one of the band-pass filters, while any out of range signals are rejected. High Q factor coils are used to minimize the loss in the RF band-pass filters.

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The IC-7300 employs an RF direct sampling system. RF signals are directly converted to digital data and processed in the FPGA (Field-Programmable Gate Array), making it possible to simplify the circuit construction. This system is a leading technology making an epoch in amateur radio.

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HF/50/70MHz TRANSCEIVER

TRANSMITTER

- Output power: More than 25W (50MHz band), 10W (70MHz band)
- Modulation system: AM Digital, Low power modulation
- Spurious emissions: 50MHz band: Less than –63dB
- FM Digital: Reactance modulation
- AM Digital: Low power modulation
- Max. input power: 5W
- Headphone jack

RECEIVER

- Intermediate frequency: 35 kHz
- Selectivity: More than 2.4kHz at 10dB S/N, 2kHz at 10dB S/N
- Audio output power: More than 2.5W (at 10% distortion with an 8Ω load)
- Tuning accuracy: VSWR 1.5 or less
- Tuning time: 3 seconds (including maximum 15 seconds)

All stated specifications are subject to change without notice or obligation.

Reiter Panel View

DC Power socket
Ground Terminal

Accessory Socket
USB Port

Antenna Connector

External Speaker Jack
C-V Remote Control Jack

www.icom.co.jp/world

Count on us!