

SPECIFICATIONS

GENERAL table with columns for Receiver and Transmitter, and rows for Frequency coverage, Mode, Number of channels, etc.

** 70 MHz band is for EUR version. Each frequency range is differ according to versions.
** Guaranteed range: 0.500-29.999, 50.000-54.000, 70.000-70.500MHz.

RECEIVER table with columns for SSB/CW, AM, and FM, and rows for Sensitivity, Selectivity, Spurious and image rejection ratio, etc.

TRANSMITTER table with columns for SSB, CW, FM, RTTY, and AM, and rows for Output power, Modulation system, HF bands, etc.

RECEIVER table with columns for SSB/CW, AM, and FM, and rows for Sensitivity, Selectivity, Spurious and image rejection ratio, etc.

** HF: Preamp 1 ON, 50/70MHz: Preamp 2 ON
Squelch sensitivity** (Threshold) SSB: Less than 5.6µV, FM: Less than 0.3µV
** HF: Preamp 1 ON, 50/70MHz: Preamp 2 ON

Table with columns for SSB, CW, AM, and FM, and rows for Selectivity, Spurious and image rejection ratio, Audio output power, etc.

TUNER table with rows for Frequency range, Matching impedance range, Tuning accuracy, Tuning time.

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

Rear Panel View diagram showing DC Power Socket, Tuner Socket, ALC Jack, SEND Jack, KEY Jack, Ground Terminal, Antenna Connector, Accessory Socket, USB Port, CI-V Remote Control Jack, External Speaker Jack.

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OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

PS-126 DC POWER SUPPLY, AH-4 HF+50MHz AUTOMATIC ANTENNA TUNER, AH-2b ANTENNA ELEMENT, AH-740 AUTOMATIC TUNING ANTENNA

HM-219 HAND MICROPHONE, AH-710 FOLDED DIPOLE ANTENNA, AH-5NV NVIS KIT

EXTERNAL SPEAKERS: SP-23, SP-33, SP-34, SP-35, SP-35L

DESKTOP MICROPHONES: SM-50, SM-30, IC-PW1EURO HF+50MHz 1kW HF LINEAR AMPLIFIER

MB-118 MOBILE MOUNTING BRACKET, CT-17 CI-V LEVEL CONVERTER, RS-BA1 IP REMOTE CONTROL SOFTWARE, RC-28 USB REMOTE ENCODER

Supplied accessories: (May differ depending on version) • Hand microphone, HM-219 • DC power cable • Fuses • Plugs



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	5kHz–1000kHz
Resolution*	1 pixel minimum (approximately)
Waveform display area (vertical axis)	80dB
Reference level adjustment	–20dB to +20dB
Peak level hold function (Max. hold)	ON/OFF/last 10 seconds
Other functions	<ul style="list-style-type: none"> Averaging indication Touch screen operation VBW (Video Band Width) adjustment

* Number of pixels shown at the 60dB level, when receiving a signal.

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.



Spectrum scope + Waterfall

Audio Scope Function

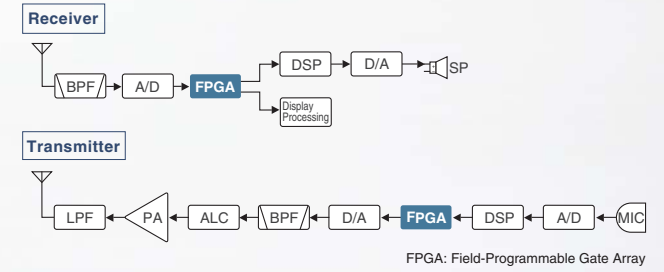
The audio scope function can be used to observe various AF characteristics such as microphone compressor level, filter width, notch filter width and keying waveform in the CW mode. Either the transmit or receive audio can be displayed on the FFT scope with the waterfall function and the oscilloscope.



FFT scope/Oscilloscope

RF Direct Sampling System

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.



New "IP+" Function

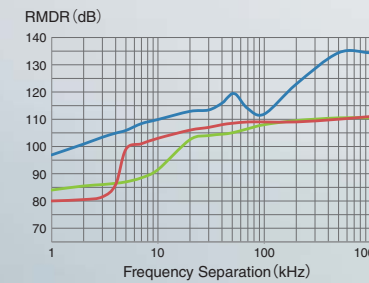
The new "IP+" function improves 3rd order intercept point (IP3) performance. When a weak signal is received adjacent to strong interference, the AD converter is optimized against signal distortion.

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

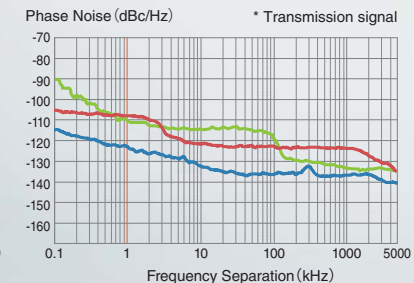
The IC-7300's RMDR is improved to about 97dB* (typical value) and Phase Noise characteristics are improved about 15dB (at 1 kHz frequency separation) compared to the IC-7200. The superior Phase Noise characteristics reduce noise components in both receive and transmit signals.

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

RMDR Characteristics Comparison



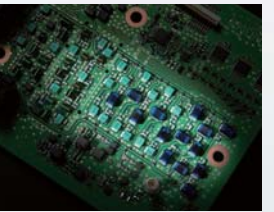
Phase Noise Characteristics Comparison*



— IC-7300 — IC-7200 — IC-7100

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.



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. Transmission power may be reduced.



HF/50/70MHz TRANSCEIVER
IC-7300

Actual size

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.



Touch screen interface



Multi-Dial Knob for Smooth Operation

The combination of the multi-dial knob and the touch screen offers quick and smooth operation. When you push the multi-dial knob, menu items are shown on the right side of the display. You can select an item with a touch of the screen and adjust levels by turning the multi-dial knob.



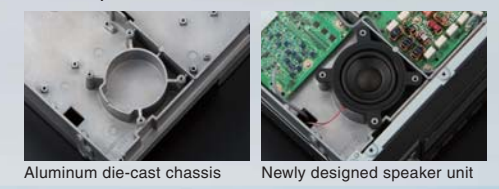
Menu screen

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.

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.



Aluminum die-cast chassis

Newly designed speaker unit

Other features

- New HM-219 hand microphone supplied
- Effective large cooling fan system
- A Multi-function meter
- 101 memory channels (99 regular, 2 scan edges)
- Optional RS-BA1 IP remote control software (the spectrum scope with the waterfall can be observed)
- CW functions: Full break-in, CW reverse, CW auto tuning