HF/50/70MHz TRANSCEIVER

SPECIFICA	TIONS					OPTIONS
GENERAL						PS-126
Frequency coverage		(Unit: MHz)				DC POWER SUPPLY
Receiver*1 Transmitter*1		0.030-74.800*2				
		1.800–1.999, 3.500–3.800, 7.000–7.200, 10.100–10.150, 14.000–14.350, 18.068–18.168, 21.000–21.450, 24.890–24.990, 28.000–29.700, 50.000–52.000, 70.000–70.500				
^{*1} 70 MHz band is f ^{*2} Guaranteed rang		on. Each freque	ncy range is di	ffer according		Res.
Mode		SSB, CW, RTTY, AM, FM				
Number of channels		101 (99 regular, 2 scan edges)				13.8 V DC, 25 A max. out
Antenna connector		SO-239 (50 Ω)				13.0 V DO, 23 A Max. Out
Power supply requirement		13.8 V DC ±15%				HM-219
Power consumption Tx Bx		21 A (at 100 W output power)				HAND IS
Operating temperature range		0.9 A typical (Standby), 1.25 A (Maximum audio) -10 °C to +60 °C; 14 °F to 140 °F				MICROPHONE
Frequency stability		Less than ±0.5 ppm (–10°C to +60°C; 14°F to 140°F)				C ANN AN
Frequency resolution		1 Hz				
		240 \times 94 \times 238 mm; 9.4 \times 3.7 \times 9.4 in (W \times H \times D)				Section 1
Weight (approximately)		4.2 kg; 9.3 lb				Vinne
TRANSMITTER						Same as supplied.
Output SSB, CW, FM, RTTY		2–100 W (HF/50 MHz), 2–50 W (70 MHz)				EXTERNAL SPEAKE
ower AM		1-25 W (HF/50 MHz), 1-12.5 W (70 MHz)				LATENNAL SPEAKE
Andulation	SSB	Digital P.S.N. modulation				
Modulation system	FM	Digital Low power modulation				
	HF bands	Digital Reactance modulation Less than –50 dB				
		Less than –63 dB				
		Less than -60 dB				the second se
Carrier suppression		More than 50 dB				
Unwanted sideband		More than 50 dB				SP-38
Microphone impedance		600 Ω				High quality audio and matching height
RECEIVER						and matching height Max. input: 7 W
Receiver system		Direct Samplin	ng Superhetero	dyne		•
Intermediate frequency		36 kHz 0.5–1.8 MHz 1.8–29.995 MHz 50 MHz band 70 MHz bands				DESKTOP MICROPH
Sensitivity*3		0.5–1.8 MHz				
SSB/CW (BW: 2.4 kHz at 10dB S/N)		 12.6 μV	0.16 µV	0.13 µV	0.16 µV	
AM (BW: 6 kHz at 10dB S/N)		12.0 μν	2.0 μV 0.5 μV	1.0 μV	1.0 µV	1
FM (BW:15 kHz at 12 dB SINAD)		-	(28.0-29.7 MHz)	0.25 µV	0.25 µV	
Sensitivity*3 (for RED version)					70 MHz bands	ST2
SSB (BW: 2.4 kHz at 12 dB SINAD)		10 dBµV emf	0 dBµV emf	-6 dBµV emf	-6 dBµV emf	SM-50
AM (BW: 4 kHz, 60% modulation at 12 dB SINAD)		16 dBµV emf	6 dBµV emf	0 dBµV emf	0 dBµV emf	Dynamic desktop microp Includes [UP/DOWN] swi
FM (BW: 7 kHz, 60% modulation			0 dBµV emf	-6 dBµV emf	–6 dBµV emf	and a low cut function
at 12 dB SINAD.) Squelch sensitivity*3 (Threshold)		-	(28.0-29.700 MHz)			
				.ess than 0.3 μ	/	MB-118
*3 HF: Preamp 1 ON, 50/70 MHz Selectivity (sharp filter shape)		More than Less than			MOBILE MOUNTING	
SSB (BW: 2.4 kHz)		2.4 kHz/-6 dB		3.4 kHz/-40 dB		BRACKET
CW (BW: 500 Hz)		500 Hz/-6 dB		700 Hz/–40 dB		
RTTY (BW: 500 Hz)		500 Hz/–6 dB 800 Hz/–40 dB				
AM (BW: 6 kHz)		6.0 kHz/-6 dB 10 kHz/-40 dB				
FM (BW: 15 kHz	<u>z)</u>	12.0 kHz/-6 dB 22 kHz/-40 dB			<i>v</i>	
Spurious and image rejection ratio		HF: More than 70 dB 50/70 MHz: More than 70 dB (Except for ADC aliasing)				For mounting the radio
Audio output powe	r			tion with an 8 Ω los		in a vehicle.
TUNER						• MB-123 CARR
Frequency range		1.9–70 MHz bands				• OPC-420 CONT
Matching impedance range		16.7 Ω -150 Ω unbalanced (VSWR better than 1: 3)				• OPC-2321 CONT
Tuning accuracy		VSWR 1: 1.5 or less				• OPC-599 CABLI
Funing time		2-3 seconds (Maximum 15 seco	onds)		Rear Panel View
Il stated specifica	tions are sub	ject to change	without notic	e or obligation		
						DC Power Socket
Cumulia da es	/*		anding	(alan)		
Supplied acce						Ground Terminal
• o o d ···· ! - ··· !						1
Hand microph		5 - DO powe		363 - Tiuga		
Hand microph	0116, 1 1101-2 1	5 - DO pome		363 - 1 1093		



Covers 3.5–54 MHz with a 7 m (23 ft) or longer wire antenna. Covers 7–54 MHz. Use with AH-4. AH-710 AH-5NV FOLDED NVIS KIT DIPOLE ANTENN/ 100 Fiberglass mobile mounting antenna element for use with AH-740. Covers overs 1.9-30 MHz bands. 2.2-30 MHz (amateur band) with AH-740.

IAL SPEAKERS





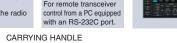
Covers 2.5-30 MHz (amateur band). OPC-2321 is required





IP REMOTE CONTROL USB REMOTE ENCODER

For use with RS-BA1.



120 CONTROL CABLE for connection with AH-4 (10 m)

2321 CONTROL CABLE for connection with AH-740 (6 m)

CI-V LEVEL CONVERTER

599 CABLE ADAPTER Converts 13-pin ACC connector to 7-pin + 8-pin ACC connectors.

SOFTWARE



Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. This product includes "zlib" and "libpng" open source software, and is licensed according to the open source software license.

ICOM INC. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world Count on us!

Your local distributor/dealer:



Advantec Srl ViaCadutiperlaLibertà, 13 10060PinascaTO-Italy Tel. +39 0121326770 info@advantec.it - www.advantec.it

ICOM

Revolutionary

The Real HF Fun Starts Here



HF/50/70MHz TRANSCEIVER IC-7300

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 classleading in resolution, sweep speed and dynamic range. While listening to received audio, you can check the real-time spectrum scope and guickly 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

FFT (Fast Fourier Transform)		
Max. 30 frames/second (approx.), Selectable from slow, mid or fast		
5 kHz–1000 kHz		
1 pixel minimum (approximately)		
80 dB		
–20 dB to +20 dB		
ON/OFF/last 10 seconds		
 Averaging indication Touch screen operation VBW (Video Band Width) adjustment 		

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 func- FFT scope/Oscilloscope tion and the oscilloscope.



FIL 2

7.073.00

<1> EDGE HOLD CENT/FIX EXPD/SET

Spectrum scope + Waterfall



HF/50/70MHz TRANSCEIVER IC - 7300

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

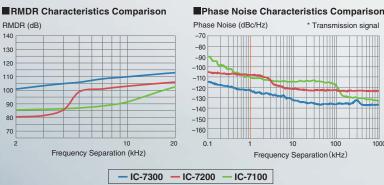
110

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 100 dB* (typical value) and Phase Noise characteristics are improved about 20 dB (at 2 kHz frequency separation) compared to the IC-7200. The superior Phase Noise characteristics reduce noise components in both receive and transmit signals.

* At 2 kHz frequency separation (received frequency: 14.2 MHz, MODE: CW, IF BW: 500 Hz)



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.



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.



Multi-dial Knoh

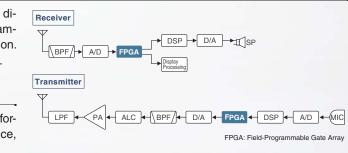
I

Menu screer

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.

Actual size



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 temporarv antennas to be tuned.



* Do not use the Enforced Tuning function except in case of an emergency Transmission power may be reduced.

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 chas





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