

HF/50/70MHz TRANSCEIVER

Revolutionary

The Real HF Fun Starts Here



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

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	 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.

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.



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<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.

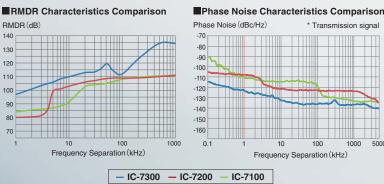
New "IP+" Function

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)



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

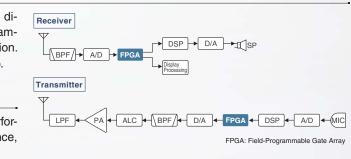
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Menu screer

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

HF/50/70MHz TRANSCEIVER

SPECIFICATIONS

GENERAL							
Frequency covera	ge	(Unit: MHz)					
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 1 *2 Guaranteed rang					o versions.		
Mode		SSB, CW, RT	ΓΥ, AM, FM				
Number of channe	ls	101 (99 regular,	2 scan edges)				
Antenna connector		SO-239 (50Ω)					
Power supply requirement		13.8V DC ±15%					
Power consumption Tx Bx		21A (at 100W ou	tput power)				
			andby), 1.25A (M	laximum audio)			
Operating temperature range			C; 14°F to 140°F				
Frequency stability			5ppm (-10°C to +6		F)		
Frequency resoluti		1Hz			/		
Dimensions (W×H×		240×94×238m	m; 9.45×3.7×9.	37in (projections	not included)		
Weight (approximate		4.2kg; 9.26lb	,				
TRANSMITTER		iniling, enzene					
Output SSB, CW		2-100W (HF/50	MHz), 2–50W (7	'0MHz)			
power AM	, ,		/Hz), 1–12.5W (,			
	SSB	Digital P.S.N. I					
Modulation system			wer modulation				
Modulation system AM FM			nce modulation				
	HF bands	Less than -500					
Spurious emissions							
Spurious erritssions		Less than -600					
		More than 50c					
Carrier suppressio		More than 500					
Unwanted sideband Microphone impedance		600Ω	ID				
RECEIVER	ance	00052					
		Direct Samplin	ng Superhetero	dyne			
Receiver system		36kHz	ig oupernetero	ayne			
	Intermediate frequency		1.0 00.00EMU-	50MHz band	70MHz band		
Sensitivity*3		0.5– 1.8MHz					
Sensitivity*3 SSB/CW (BW: 2.	4KHz at 10dB S/N)	-	0.16µV	0.13µV	0.16µV		
Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6kHz	4KHz at 10dB S/N) at 10dB S/N)	0.5– 1.8MHz – 12.6µV	0.16μV 2.0μV	0.13μV 1.0μV	0.16μV 1.0μV		
Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6kHz FM (BW: 15kHz	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD)	– 12.6µV –	0.16µV	0.13µV	0.16µV		
Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6kHz FM (BW: 15kHz *3 HF: Preamp 1 O	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz:	– 12.6µV – Preamp 2 ON	0.16µV 2.0µV 0.5µV (28.0-29.7MHz)	0.13μV 1.0μV 0.25μV	0.16μV 1.0μV		
Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6kHz FM (BW: 15kHz *3 HF: Preamp 1 O Squelch sensitivity	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz: * ³ (Threshold)	– 12.6µV – Preamp 2 ON SSB: Less tha	0.16µV 2.0µV 0.5µV (28.0-29.7MHz)	0.13μV 1.0μV 0.25μV	0.16μV 1.0μV		
Sensitivity*3 SSB/CW (BW: 2: AM (BW: 6kHz FM (BW: 15kHz *3 HF: Preamp 1 O Squelch sensitivity *3 HF: Preamp 1 O	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz: * ³ (Threshold) N, 50/70MHz:	– 12.6µV – Preamp 2 ON SSB: Less tha Preamp 2 ON	0.16μV 2.0μV 0.5μV (28.0–29.7MHz) n 5.6μV, FM: Le	0.13μV 1.0μV 0.25μV	0.16μV 1.0μV 0.25μV		
Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6kHz FM (BW: 15kHz *3 HF: Preamp 1 O Squelch sensitivity *1 HF: Preamp 1 O Selectivity (sharp fill	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz: * ³ (Threshold) N, 50/70MHz: ter shape)	– 12.6µV – Preamp 2 ON SSB: Less tha Preamp 2 ON More	0.16µV 2.0µV 0.5µV (28.0-29.7MHz) n 5.6µV, FM: Le	0.13μV 1.0μV 0.25μV ess than 0.3μV Less	0.16µV 1.0µV 0.25µV than		
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Sensitivity*3 SB/CW (BW: 2.4 AM (BW: 6kHz FM (BW: 15kHz *3 HF: Preamp 1 O Squelch sensitivity *3 HF: Preamp 1 O Selectivity (sharp fill SSB (BW: 2.4K CW (BW: 500H	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz: * ³ (Threshold) N, 50/70MHz: ter shape) Hz) z)	- 12.6µV - Preamp 2 ON SSB: Less tha Preamp 2 ON More 2.4kHz 500Hz	0.16µV 2.0µV 0.5µV (28.0-29.7MHz) n 5.6µV, FM: Le than z/-6dB t/-6dB	0.13µV 1.0µV 0.25µV ess than 0.3µV Less 3.4kHz 700Hz/	0.16µV 1.0µV 0.25µV than /-40dB		
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Sensitivity*3 SBJCW (BW: 2. AM (BW: 6kHz FM (BW: 15kHz *3 HF: Preamp 1 0 Squelch sensitivity *3 HF: Preamp 1 0 Selectivity (sharp fill SSB (BW: 2.4K CW (BW: 500H RTTY (BW: 500	4KHz at 10dB S/N) at 10dB S/N) at 12dB S/ND at 12dB SINAD) N, 50/70MHz: ************************************	- 12.6µV - Preamp 2 ON SSB: Less tha Preamp 2 ON More 2.4kHz 500Hz 500Hz 6.0kHz 12.0kH	0.16µV 2.0µV 0.5µV (28.0-29.7MHz) n 5.6µV, FM: Let than z/-6dB z/-6dB z/-6dB z/-6dB	0.13µV 1.0µV 0.25µV ess than 0.3µV Less 3.4kHz 700Hz, 800Hz, 10kHz/	0.16µV 1.0µV 0.25µV than /-40dB /-40dB /-40dB		
Sensitivity*3 SB/CW (BW: 2. AM (BW: 6kHz AM (BW: 6kHz FF (BW: 15kHz *3 HF: Preamp 1 O Selectivity (sharp fill SSB (BW: 2.4K CW (BW: 500H RTTY (BW: 500H RTTY (BW: 500H RTTY (BW: 15kHz Spurious and image	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz: ************************************	- 12.6µV - Preamp 2 ON SSB: Less tha Preamp 2 ON More 2.4kH 500Hz 500Hz 6.0kH 12.0kH HF: More than HF: More than	0.16µV 2.0µV 0.5µV (28.0-29.7MHz) 15.6µV, FM: Le 1 than 2/-6dB 2/-6dB 2/-6dB 2/-6dB 2/-6dB 2/-6dB 2/-6dB	0.13µV 1.0µV 0.25µV ess than 0.3µV Less 3.4KHz 700Hz, 800Hz, 10kHz, 22kHz, Except for ADC All	0.16µV 1.0µV 0.25µV than /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB		
Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6kHz FM (BW: 15kHz FM (BW: 15kHz FM (BW: 15kHz FM (BW: 15kHz SSB (BW: 2.4K CW (BW: 500H RTTY (BW: 500H RTTY (BW: 500H RTTY (BW: 500H RTTY (BW: 500H RTTY (BW: 50H RTTY (BW: 50H AM (BW: 6kHz) FM (BW: 15kHz Spurious and image Audio output powe	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz: ************************************	- 12.6µV - Preamp 2 ON SSB: Less tha Preamp 2 ON More 2.4kH 500Hz 500Hz 6.0kH 12.0kH HF: More than HF: More than	0.16µV 2.0µV 0.5µV (28.0-29.7MHz) n 5.6µV, FM: Let than z/-6dB z/-6dB z/-6dB z/-6dB z/-6dB 70dB	0.13µV 1.0µV 0.25µV ess than 0.3µV Less 3.4KHz 700Hz, 800Hz, 10kHz, 22kHz, Except for ADC All	0.16µV 1.0µV 0.25µV than /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB /-40dB		
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Sensitivity*3 SB/CW (BW: 2. AM (BW: 6kHz FM (BW: 15kHz *3 HF: Preamp 1 0 Selectivity (sharp fill SSB (BW: 2.4K CW (BW: 500H RTTY (BW: 500H RTTY (BW: 50H RTTY (BW: 50H	4KHz at 10dB S/N) at 10dB S/N) at 12dB SINAD) N, 50/70MHz: ** (Threshold) N, 50/70MHz; ter shape) (Hz) z) 0Hz) er ejection ratio r	- 12.6µV - Preamp 2 ON SSB: Less tha Preamp 2 ON More 2.4kH: 500Hz 500Hz 6.0kH: 12.0kH HF: More than 50/70MHz: Mc More than 2.5 1.9–70MHz ba	0.16µV 2.0µV 0.5µV (28.0-29.7MHz) n 5.6µV, FM: Le than z/-6dB z	0.13μV 1.0μV 0.25μV ess than 0.3μV Less 3.4kHz 700Hz 800Hz 10kHz 22kHz Except for ADC Ali on with an 8Ω load	0.16µV 1.0µV 0.25µV than /-40dB /-40d		

Rear Panel View



OPTIONS Some options may not be available in some countries. Please ask your dealer for details **PS-126** AH-4 AH-2b AH-740 DC POWER SUPPLY HF+50MHz AUTOMATIC AUTOMATIC ANTENNA ANTENNA TUNER ELEMENT TUNING ANTENNA Covers 3.5-54MHz with a 7m 13.8V DC, 25A max. output. (23ft) or longer wire antenna. Covers 7-54MHz. Use with AH-4. HM-219 AH-710 AH-5NV HAND FOLDED NVIS KIT MICROPHONE DIPOLE ANTENNA **d**[[i] Fiberglass mobile mounting antenna element for use with AH-740. Covers Covers 2.5-30MHz (amateur band). OPC-2321 is required. Same as supplied Covers 1.9-30MHz bands 2.2-30MHz (amateur band) with AH-740. EXTERNAL SPEAKERS SP-35 (2m: 6.6ft cable) SP-35L SP-23 (6m; 19.7ft cable) Compact mobile SP-33 SP-34 audio filters Wooden box speaker. Max. input power: 5W 4 audio filters headphone jack headphone jack external speaker Max. input power: 5W Max. input power: 5W Max. input power: 7W DESKTOP MICROPHONES **IC-PW1EURO** HE+50MHz 1kW HE LINEAR AMPLIFIER ROM

MB-118 CT-17 RS-BA1 MOBILE MOUNTING CI-V LEVEL CONVERTER IP REMOTE CONTROL BRACKET SOFTWARE For remote transceiver For mounting the radio control from a PC equipped with an RS-232C port. in a vehicle.

SM-30

microphone.

Compact, lightweight electret desktop

• MB-123 CARRYING HANDLE

SM-50

Dynamic desktop microphone Includes [UP/DOWN] switches and a low cut function.

- OPC-420 CONTROL CABLE for connection with AH-4 (10m)
- OPC-2321 CONTROL CABLE for connection with AH-740 (6m)
- OPC-599 CABLE ADAPTER Converts 13-pin ACC connector to 7-pin + 8-pin ACC connectors.

OPC-599 is required.

RC-28

.

USB REMOTE ENCODER

For use with RS-BA1

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

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