IC-7300

CDECIEICATIONIC

GENERAL					
Frequency coverage	ne .	(Unit: MHz)			
Receiver*1		0.030-74.800*2			
		1.800-1.999, 3.500-3.800, 7.000-7.200, 10.100-10.150,			
Transmitter*1		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	for EUR version	n. Each freque	ncy range is di	ffer according t	
¹² Guaranteed rang	ge: 0.500–29.9			70.500 MHz.	
Mode		SSB, CW, RTTY, AM, FM			
Number of channels		101 (99 regular, 2 scan edges)			
Antenna connector		SO-239 (50 Ω)			
Power supply requirement		13.8 V DC ±15%			
Power consumption Tx		21 A (at 100 W output power)			
· HX		0.9 A typical (Standby), 1.25 A (Maximum audio)			
Operating temperature range		-10 °C to +60 °C; 14 °F to 140 °F			
Frequency stability		Less than ±0.5 ppm (–10°C to +60°C; 14°F to 140°F)			
Frequency resoluti		1 Hz			
Dimensions (projections not included)		240 × 94 × 238 mm; 9.4 × 3.7 × 9.4 in (W × H × D)			
Weight (approximate		4.2 kg; 9.3 lb			
TRANSMITTER					
Output SSB, CW	, FM, RTTY	2-100 W (HF/5	0 MHz), 2-50 W	(70 MHz)	
power AM		1-25 W (HF/50	MHz), 1-12.5 W	(70 MHz)	
	SSB	Digital P.S.N.	modulation		
Modulation system	AM	Digital Low power modulation			
	FM	Digital Reactance modulation			
	HF bands	Less than -50 dB			
Spurious emissions 50 MHz band		Less than -63 dB			
	70 MHz band	Less than -60 dB			
Carrier suppression		More than 50 dB			
Unwanted sideband		More than 50 dB			
Microphone impedance		600 Ω			
viioropiione impeu	arroo	000 32			
RECEIVER	arroo	000 32			
RECEIVER			ng Superhetero	dyne	
			ng Superhetero	dyne	
RECEIVER Receiver system Intermediate freque		Direct Samplir 36 kHz	ng Superhetero		70 MHz bands
RECEIVER Receiver system	ency	Direct Samplir 36 kHz			70 MHz bands 0.16 μV
RECEIVER Receiver system Intermediate freque Sensitivity*3	ency 4 kHz at 10dB S/N)	Direct Samplir 36 kHz	1.8-29.995 MHz	50 MHz band	
RECEIVER Receiver system Intermediate frequi Sensitivity*3 SSB/CW (BW: 2.4)	ency 4 kHz at 10dB S/N) at 10dB S/N)	Direct Samplir 36 kHz 0.5–1.8 MHz	1.8-29.995 MHz 0.16 μV 2.0 μV 0.5 μV	50 MHz band 0.13 μV	0.16 μV
RECEIVER Receiver system Intermediate frequisensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz	ency 4 kHz at 10dB S/N) at 10dB S/N) at 12 dB SINAD)	Direct Samplir 36 kHz 0.5–1.8 MHz – 12.6 µV	1.8-29.995 MHz 0.16 μV 2.0 μV	50 MHz band 0.13 μV 1.0 μV	0.16 μV 1.0 μV 0.25 μV
RECEIVER Receiver system Intermediate frequi Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz	ency 4 kHz at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version)	Direct Samplir 36 kHz 0.5–1.8 MHz – 12.6 µV	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz)	50 MHz band 0.13 μV 1.0 μV 0.25 μV	0.16 μV 1.0 μV 0.25 μV 70 MHz band
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz Sensitivity*3 (for RI SSB (BW: 2 4 kH AM (BW: 4 kHz,	ency 4 kHz at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD)	Direct Samplir 36 kHz 0.5–1.8 MHz – 12.6 μV – 1.8–2.999 MHz	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz	50 MHz band 0.13 μV 1.0 μV 0.25 μV 50 MHz band	0.16 μV 1.0 μV 0.25 μV 70 MHz band -6 dBμV em
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB.(BW: 2.4 kH AM (BW: 4 kHz, at 12 dB SINAD) FM (BW: 7 kHz,	ency 4 kHz at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD) 60% modulation	Direct Samplir 36 kHz 0.5–1.8 MHz – 12.6 μV – 1.8–2.999 MHz 10 dBμV emf	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf 0 dBµV emf	50 MHz band 0.13 μV 1.0 μV 0.25 μV 50 MHz band -6 dBμV emf	0.16 μV 1.0 μV 0.25 μV 70 MHz bands -6 dBμV emf
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz Sensitivity*3 (for RI SSB (BW: 2.4 kH AM (BW: 4 kHz, at 12 dB SINAD) EM (BW: 7 kHz, at 12 dB SINAD)	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/NAD) ED version) z at 12 dB SINAD) 60% modulation 60% modulation	Direct Samplir 36 kHz 0.5–1.8 MHz – 12.6 µV – 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf 0 dBµV emf (28.0–29.700 MHz)	50 MHz band 0.13 μV 1.0 μV 0.25 μV 50 MHz band -6 dBμV emf 0 dBμV emf	0.16 μV 1.0 μV 0.25 μV 70 MHz bands -6 dBμV emf 0 dBμV emf
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (Bw: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kH at 2.dB SINAD) FM (BW: 7 kHz, at 12.dB SINAD) Squelch sensitivity*3	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD) 60% modulation 60% modulation *3 (Threshold)	Direct Samplir 36 kHz 0.5–1.8 MHz – 12.6 µV – 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf – SSB: Less tha	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L	50 MHz band 0.13 μV 1.0 μV 0.25 μV 50 MHz band -6 dBμV emf 0 dBμV emf	0.16 μV 1.0 μV 0.25 μV 70 MHz bands -6 dBμV emf 0 dBμV emf
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 24 kH, AM (BW: 4 kHz, at 12 dB SINAD) FM (BW: 7 kHz, at 12 dB SINAD) Squelch sensitivity*3 HF: Preamp 1 0	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD, 60% modulation 60% modulation *3 (Threshold) N, 50/70 MHz:	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV	0.16 μV 1.0 μV 0.25 μV 70 MHz bands -6 dBμV emf 0 dBμV emf
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kH AM (BW: 4 kHz, at 12 dB SINAD) FM (BW: 7 kHz, at 12 dB SINAD) Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp filt	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD) 60% modulation 60% modulation **3 (Threshold) N, 50/70 MHz: er shape)	Direct Samplir 36 kHz 0.5–1.8 MHz 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf SSB: Less tha Preamp 2 ON	1.8–29.995 MHz 2.0 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 0 dBµV emf 6 dBµV emf 0 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV	0.16 µV 1.0 µV 0.25 µV 70 MHz band: -6 dBµV em 0 dBµV em -6 dBµV em
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 24 kH, AM (BW: 4 kHz, at 12 dB SINAD) FM (BW: 7 kHz, at 12 dB SINAD) Squelch sensitivity*3 HF: Preamp 1 0	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD) 60% modulation 60% modulation 60% modulation 73 (Threshold) N, 50/70 MHz: ter shape) tHz)	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz	1.8–29.995 MHz 2.0 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L	50 MHz band 0.13 μV 1.0 μV 0.25 μV 50 MHz band -6 dBμV emf 0 dBμV emf ess than 0.3 μV	0.16 µV 1.0 µV 0.25 µV 70 MHz band: -6 dBµV emf 0 dBµV emf
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (Bw: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kHz A1 2.dB SINAD) FM (BW: 7 kHz, A1 2.dB SINAD) Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp filt	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD) 60% modulation 60% modulation *3 (Threshold) N, 50/70 MHz: ter shape) Hz)	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf 0 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV Less 3.4 kHz 700 Hz.	0.16 μV 1.0 μV 0.25 μV 70 MHz bands -6 dBμV emf -6 dBμV emf /-40 dB
RECEIVER Receiver system Intermediate frequence Sensitivity*3 SSB/CW (BW: 2.4 AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kH AM (BW: 4 kHz, a112 dB SINAD) FM (BW: 7 kHz, a112 dB SINAD) Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp filit SSB (BW: 2.4 k CW (BW: 500 h RTTY (BW: 500	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD, 60% modulation 60% modulation *3 (Threshold) N, 50/70 MHz: ter shape) kHz; kHz; kHz; kHz; kHz;	Direct Samplir 36 kHz 0.5-1.8 MHz - 12.6 µV - 1.8-2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf 0 dBµV emf 5.6 µV, FM: L than z/-6 dB	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV Less 3.4 kHz 700 Hz. 800 Hz.	0.16 µV 1.0 µV 0.25 µV 70 MHz band: -6 dBµV emf -6 dBµV emf /-40 dB /-40 dB
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kH AM (BW: 4 kHz, at 12 dB SINAD) FM (BW: 7 kHz, at 12 dB SINAD) Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp filt SSB (BW: 2.4 kH AM (BW: 50 kHz AM (BW: 50 kHz) AM (BW: 6 kHz	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD) 60% modulation 60% modulation 43 (Threshold) N, 50/70 MHz; ter shape) (Hz) (b) 0 0 Hz)	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz 500 Hz 6.0 kHz	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 0 dBµV emf 6 dBµV emf 0 dBµV emf 128.0–29.700 MHz) 15.6 µV, FM: L than 2/–6 dB 2/–6 dB	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV Less 3.4 kHz 700 Hz. 800 Hz.	0.16 µV 1.0 µV 0.25 µV 70 MHz band: -6 dBµV emi 0 dBµV emi /-40 dB /-40 dB /-40 dB /-40 dB
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kH AM (BW: 4 kHz, at 12 dB SINAD). FM (BW: 7 kHz, at 12 dB SINAD). Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp filt SSB (BW: 2.4 kH AM (BW: 6 kHz, at 12 dB SINAD). THE (BW: 50 LB CW (BW: 50 LB CW) AM (BW: 6 kHz) FM (BW: 15 kHz)	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD) 60% modulation 60% modulation 73 (Threshold) N, 50/70 MHz: ter shape) tHz) lz) 0 d Hz)	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz 500 Hz 6.0 kHz 12.0 kH	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV 0.5 µV 0.5 pV 0.80–29.7999 MHz 0 dBµV emf 6 dBµV emf 0 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L than tz/-6 dB t/-6 dB t/-6 dB t/-6 dB	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf ess than 0.3 µV Less 3.4 kHz 700 Hz. 800 Hz. 10 kHz. 22 kHz.	0.16 µV 1.0 µV 0.25 µV 70 MHz band -6 dBµV em 0 dBµV em /-40 dB /-40 dB /-40 dB /-40 dB /-40 dB /-40 dB
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kH AM (BW: 4 kHz, at 12 dB SINAD). FM (BW: 7 kHz, at 12 dB SINAD). Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp filt SSB (BW: 2.4 kH AM (BW: 6 kHz, at 12 dB SINAD). FM (BW: 7 kHz, at 12 dB SINAD). FM (BW: 7 kHz, at 12 dB SINAD). FM (BW: 6 kHz) GW (BW: 500 L AM (BW: 6 kHz) FM (BW: 15 kHz) Spurious and image	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) 60% modulation 60% modulation 60% modulation 73 (Threshold) N, 50/70 MHz: ter shape) tHz) ter shape) tHz) 0 Hz) 0 Hz) rejection ratio	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz 500 Hz 6.0 kHz 12.0 kH	1.8–29.995 MHz 2.0 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L than z/–6 dB z/–6 dB z/–6 dB z/–6 dB z/–6 dB	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV Less 3.4 kHz 700 Hz. 800 Hz. 10 kHz, 22 kHz.	0.16 µV 1.0 µV 0.25 µV 70 MHz bands -6 dBµV emf 0 dBµV emf -6 dBµV emf /-40 dB /-40 dB /-40 dB /-40 dB /-40 dB
RECEIVER Receiver system Intermediate frequications of the sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW: 15 kHz SSB (BW: 2.4 kHz A1 (2dB SINAD) FM (BW: 7 kHz, a1 12 dB SINAD) FM (BW: 60 kHz FM (BW: 50 bHz) FM (BW: 50 bHz) FM (BW: 50 kHz) FM (BW: 50 kHz) FM (BW: 50 kHz) FM (BW: 51 kHz) FM (BW: 15 kHz) FM (BW: 15 kHz) FM (BW: 15 kHz) FM (BW: 15 kHz)	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) 60% modulation 60% modulation 60% modulation 73 (Threshold) N, 50/70 MHz: ter shape) tHz) ter shape) tHz) 0 Hz) 0 Hz) rejection ratio	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz 500 Hz 6.0 kHz 12.0 kH	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV 0.5 µV 0.5 pV 0.80–29.7999 MHz 0 dBµV emf 6 dBµV emf 0 dBµV emf (28.0–29.700 MHz) n 5.6 µV, FM: L than tz/-6 dB t/-6 dB t/-6 dB t/-6 dB	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV Less 3.4 kHz 700 Hz. 800 Hz. 10 kHz, 22 kHz.	0.16 µV 1.0 µV 0.25 µV 70 MHz bands -6 dBµV emf 0 dBµV emf -6 dBµV emf /-40 dB /-40 dB /-40 dB /-40 dB /-40 dB
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz Sensitivity*3 (for Ri SSB (BW: 2.4 kH AM (BW: 4 kHz, a1 12 dB SINAD) FM (BW: 7 kHz, a1 12 dB SINAD) Squelch sensitivity SSB (BW: 2.4 kH CW (BW: 500 H RTTY (BW: 500 H RTTY (BW: 500 H RTTY (BW: 50 kHz FM (BW: 15 kHz Spurious and image Audio output powe	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) 60% modulation 60% modulation 60% modulation 73 (Threshold) N, 50/70 MHz: ter shape) tHz) ter shape) tHz) 0 Hz) 0 Hz) rejection ratio	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 1.8–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz 500 Hz 6.0 kHz 12.0 kH HF: More than 50/70 MHz: M. More than 2.5	1.8–29.995 MHz 2.0 µV 2.0 µV 0.5 µV (28.0–29.7 MHz) 0 dBµV emf 6 dBµV emf 6 dBµV emf 128.0–29.700 MHz) n.56 µV, FM: L 1.64 µV, FM: L 1.76 dB 1.76 dB 1.76 dB 1.76 dB 1.77 dB 1.77 dB 1.77 dB 1.77 dB 1.78 dP dB 1.77 dB 1.78 dP dB 1.79 dB 1.70 dB 1.7	50 MHz band 0.13 µV 1.0 µV 0.25 µV 50 MHz band -6 dBµV emf 0 dBµV emf -6 dBµV emf ess than 0.3 µV Less 3.4 kHz 700 Hz. 800 Hz. 10 kHz, 22 kHz.	0.16 μV 1.0 μV 0.25 μV 70 MHz band: -6 dBμV em 0 dBμV em /-40 dB /-40 dB /-40 dB /-40 dB /-40 dB /-40 dB
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (Bw: 2. AM (BW: 6 kHz FM (BW: 15 kHz SSB (BW: 2.4 kH AM (BW: 7 kHz, at 12 dB SINAD) FM (BW: 7 kHz, at 12 dB SINAD) Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp fill SSB (BW: 2.4 k CW (BW: 500 H RTTY (BW: 500 H	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD 60% modulation 60% modulation **3 (Threshold) N, 50/70 MHz: ter shape) tHz) 10 Hz) 17 27 rejection ratio	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 18.–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz 500 Hz 12.0 kH HF: More than 5.70 MHz: M More than 2.5	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV 2.0 pV 0.5 µV 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf 6 dBµV emf 10 dBµV emf 6 dBµV emf 6 dBµV emf 6 dBµV emf 6 dBµV emf 10 dB	50 MHz band 0.13 μV 1.0 μV 0.25 μV 50 MHz band -6 dBμV emf 0 dBμV emf ess than 0.3 μV Less 3.4 kHz 700 Hz, 800 Hz, 10 kHz, 22 kHz,	0.16 µV 1.0 µV 0.25 µV 70 MHz band: -6 dBµV em 0 dBµV em /-40 dB
RECEIVER Receiver system Intermediate freque Sensitivity*3 SSB/CW (BW: 2. AM (BW: 6 kHz FM (BW:15 kHz SSB (BW: 2.4 kH AM (BW: 4 kHz, at 12 dB SINAD). FM (BW: 7 kHz, at 12 dB SINAD). Squelch sensitivity*3 HF: Preamp 1 O Selectivity (sharp filt SSB (BW: 2.4 kH AM (BW: 6 kHz, at 12 dB SINAD). THE (BW: 50 LB CW (BW: 50 LB CW) AM (BW: 6 kHz) FM (BW: 15 kHz)	ency 4 kHz at 10dB S/N) at 10dB S/N) at 10dB S/N) at 12 dB SINAD) ED version) z at 12 dB SINAD 60% modulation 60% modulation **3 (Threshold) N, 50/70 MHz: ter shape) tHz) 10 Hz) 17 27 rejection ratio	Direct Samplir 36 kHz 0.5–1.8 MHz - 12.6 µV - 18.–2.999 MHz 10 dBµV emf 16 dBµV emf - SSB: Less tha Preamp 2 ON More 2.4 kHz 500 Hz 500 Hz 12.0 kH HF: More than 5.70 MHz: M More than 2.5	1.8–29.995 MHz 0.16 µV 2.0 µV 0.5 µV 0.5 µV 0.5 µV 3.0–29.999 MHz 0 dBµV emf 6 dBµV emf 0 dBµV emf 128.0–29.700 MHz) n 5.6 µV, FM: L 1 than 12/–6 dB	50 MHz band 0.13 μV 1.0 μV 0.25 μV 50 MHz band -6 dBμV emf 0 dBμV emf ess than 0.3 μV Less 3.4 kHz 700 Hz, 800 Hz, 10 kHz, 22 kHz,	0.16 µV 1.0 µV 0.25 µV 70 MHz band: -6 dBµV em 0 dBµV em /-40 dB

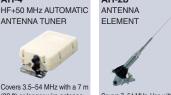
All stated specifications are subject to change without notice or obligation

Supplied accessories: (May differ depending on version)

• Hand microphone, HM-219 • DC power cable • Fuses • Plugs

OPTIONS Some options may not be available in some countries. Please ask your





AH-710 FOLDED Covers 1.9-30 MHz bands.

AH-5NV Fiberglass mobile mounting antenna ment for use with AH-740. Covers 2.2-30 MHz (amateur band) with AH-740.



ANTENNA

Covers 2.5-30 MH: OPC-2321 is required

EXTERNAL SPEAKERS

HM-219



SP-23 headphone jack

SP-33

SP-34

(2 m: 6.6 ft cable)

SP-35L (6 m; 19.7 ft cable) Compact mobile













• MB-123 CARRYING HANDLE

• OPC-420 CONTROL CABLE for connection with AH-4 (10 m)

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

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



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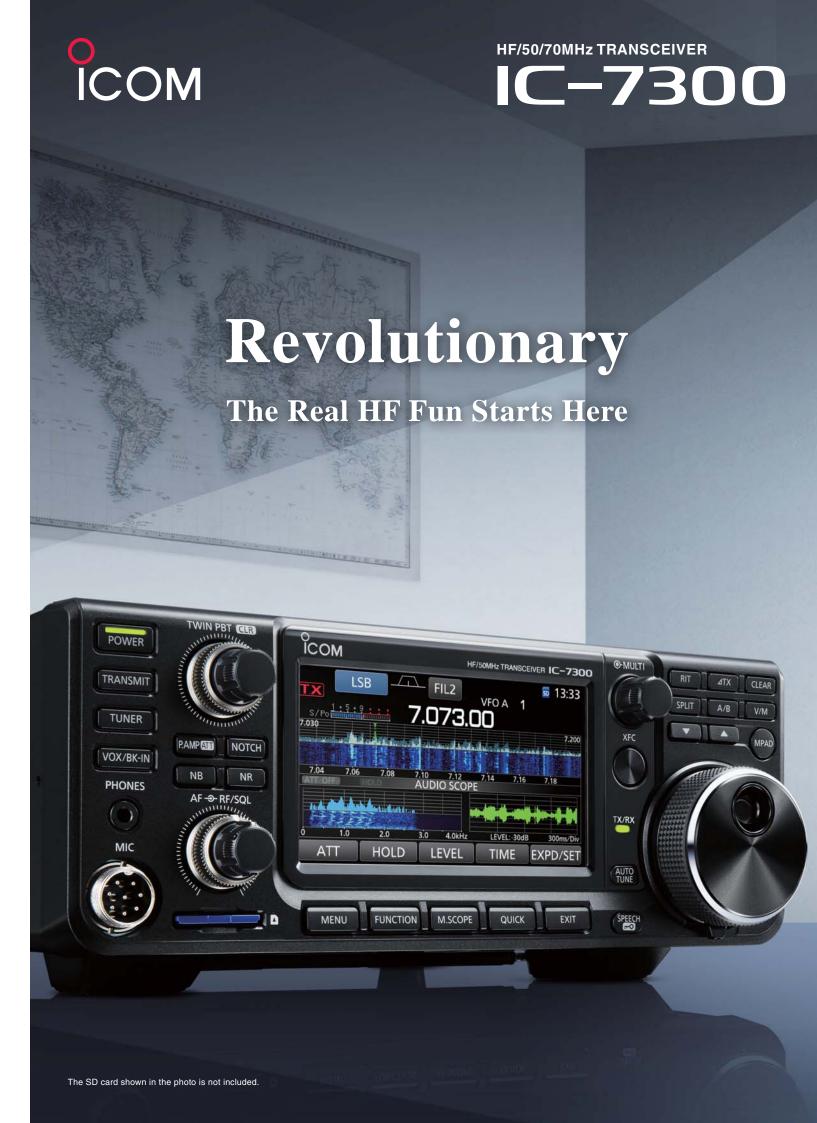
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Your local distributor/dealers



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

■ 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	5 kHz–1000 kHz		
Resolution*	1 pixel minimum (approximately)		
Waveform display area (vertical axis)	80 dB		
Reference level adjustment	-20 dB to +20 dB		
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 60 dB 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.



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.

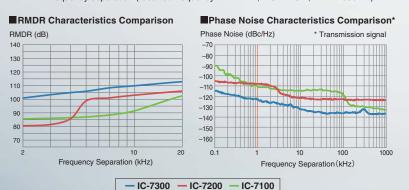
New "IP+" Function

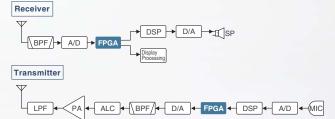
The new "IP+" function improves 3rd order intercept point (IP3) performance. When a weak signal is received adjacent to strong interference, the AD converter is optimized against signal distortion.

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

The IC-7300's RMDR is improved to about 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.

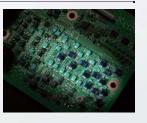
* At 2 kHz frequency separation (received frequency: 14.2 MHz, MODE: CW, IF BW: 500 Hz)





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.

The large 4.3 inch colour COM **⊚**-MULTI RIT ⊿TX CLEAR TFT touch LCD offers in-HF/50MHz TRANSCEIVER IC-7300 POWER tuitive operation. Using V/M SPLIT A/B the software keypad of



Large Touch Screen Colour TFT LCD

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.



Superior Sound Quality

To offer superior sound quality, a new speaker unit has been incorporated and is allocated ded-





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.

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 IC-7300

Actual size