



PRE-RELEASE INFORMATION

IC-9700

NEW

144, 430/440, 1200 MHz ALL MODE TRANSCEIVER



Direct Sampling Now Enters the VHF/UHF Arena

All mode, tri-band transceiver covering the 144, 430/440 as well as 1200 MHz

Real-time, high-speed spectrum scope for the 144, 430/440, 1200 MHz bands

New PA provides a powerful 100 W (144 MHz), 75 W (430/440 MHz) and 10 W (1200 MHz) output

Dualwatch operation and full-duplex operation in the satellite mode

Follows Icom's center display design style with a 4.3 inch touch screen color TFT LCD

D-STAR provides digital clear audio and Internet capable communication

Smooth satellite operation with normal/reverse tracking and 99 satellite channels

Digital Data (DD) mode provides 128 kbps data communication

IC-9700

GENERAL

Frequency coverage:	
<USA version>	144.000–148.000, 430.000–450.000, 1240.000–1300.000 MHz
<EUR version>	144.000–146.000, 430.000–440.000, 1240.000–1300.000 MHz
Mode:	SSB, CW, RTTY, AM, FM, DV, DD
Number of channels:	107 (99 Simplex + 6 Program scan edges + 2 CALL) × 3 bands, 99 (Satellite), 2000 (DR function)
Antenna connectors:	144 MHz SO-239 (50 Ω), 430/440, 1200 MHz Type-N (50 Ω)
Power supply requirement:	13.8 V DC ±15% (Negative ground)
Power consumption:	TX Less than 18 A (High power) RX 1.2 A typical (Standby), Less than 1.8 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 resolution:	1 Hz
Dimensions:	240 × 94 × 238 mm, 9.4 × 3.7 × 9.4 in (W × H × D, projections not included)
Weight:	4.7 kg, 10.4 lb (approximate)

TRANSMITTER

Output power:	<SSB/CW/FM/RTTY/DV/DD>	<AM>
144 MHz	0.5–100 W	0.125–25 W
430/440 MHz	0.5–75 W	0.125–18.75 W
1200 MHz	0.1–10 W	0.025–2.5 W
Modulation system:		
SSB	Digital PSN modulation	
FM	Digital Reactance modulation	
AM	Digital Low Power modulation	
DV	Digital GMSK Reactance modulation	
DD	Digital Quadrature modulation	
Spurious emissions:	<Harmonics>	<Out-of-band emission>
144 MHz	Less than –63 dB	Less than –60 dB
430/440 MHz	Less than –61.8 dB	Less than –60 dB
1200 MHz	Less than –53 dB	Less than –50 dB
Carrier suppression:	More than 50 dB	
Unwanted sideband:	More than 50 dB	
Microphone impedance:	600 Ω	

RECEIVER

Receiver system:	144, 430/440 MHz RF Direct Sampling 1200 MHz Down Conversion IF Sampling
Intermediate frequency:	311–371 MHz (1200 MHz)
Sensitivity (Preamp: ON, Filter: SOFT):	
SSB/CW (10 dB S/N)	Less than 0.11 μV
AM (10 dB S/N)	Less than 1.0 μV
FM (12 dB SINAD)	Less than 0.18 μV
DV (1% BER) (PN9)	Less than 0.35 μV
DD (1% BER) (PN9)	Less than 1.59 μV
Selectivity (Filter: SHAPE):	
SSB (BW=2.4 kHz)	More than 2.4 kHz/–3 dB, Less than 3.6 kHz/–60 dB
CW (BW=500 Hz)	More than 500 Hz/–3 dB, Less than 700 Hz/–60 dB
RTTY (BW=500 Hz)	More than 500 Hz/–3 dB, Less than 700 Hz/–60 dB
AM (BW=6 kHz)	More than 6 kHz/–3 dB, Less than 15 kHz/–60 dB
FM (BW=15 kHz)	More than 12 kHz/–6 dB, Less than 20 kHz/–60 dB
DV (12.5 kHz spacing)	More than –50 dB
DD (300 kHz spacing)	More than –40 dB
Spurious and image rejection ratio:	
SSB/CW	144, 430/440 MHz More than 70 dB, 1200 MHz More than 50 dB
AM/FM/DV	144, 430/440 MHz More than 60 dB, 1200 MHz More than 50 dB
DD	1200 MHz More than 50 dB
Audio output power:	More than 2.0 W (1 kHz, 10% distortion) into an 8 Ω load

OPTIONS



HM-219
Hand microphone with
UP/DOWN switches
(Same as supplied)



PS-126
DC power supply
(13.8 V DC, 25 A maximum
output)



RS-BA1 (Version 2)
IP remote control software



SM-50
Dynamic desktop
microphone including
[UP/DOWN] switches
and a low cut function



SP-38
High quality audio
and matching height
Maximum input: 7 W



RS-MS1A
Remote control application
for Android™. Download free
from Google Play™.

- **MB-118** Mobile mounting bracket
- **MB-123** Carrying handle
- **OPC-2350LU** PC/Android™ data cable
- **SM-30** Compact, lightweight electret desktop microphone
- **SP-35** External speaker (2 m, 6.6 ft cable)
- **SP-41** External speaker with two input lines
- **CS-9700** Programming software

SUPPLIED ACCESSORIES

- HM-219, hand microphone
- DC power cable

REAR PANEL



- | | |
|------------------------------------|--|
| A 144 MHz Antenna Connector | B 430/440 MHz Antenna Connector |
| C DC Power Socket | D 1200 MHz Antenna Connector |
| E LAN Port | F 10 MHz reference signal input |
| G Accessory Socket | H Data Jack |
| I USB/B Port | J CI-V Remote Control Jack |
| K KEY Jack | L External Speaker Jack MAIN |
| M External Speaker Jack SUB | N Ground Terminal |

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