

HF/VHF/UHF ALL MODE TRANSCEIVER

Intuitive Touch Screen, Quick Response, Multi-band Radio

JUD

Print.

DEF

FIL2

12221

2.4K I

SHARE

-7100

5:11

144 C1

SSB-2

SHARP

2.4k

5-922

HF/50/70/144/430MHz Finger Touch Operation with Innovative Design

ICOM

1COM

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113 (11) (11) 5 1...3...5...7...9..20..40..60#

2.4k

17



GÍTAL



Finger Touch Operation

Intuitive Touch Screen Interface

The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.

0--40--60dE

5:11

RIT

Near Repeat TX History

Straight Forward Operation

Just tap the mode, filter, function etc, you need to change. The touch screen responds naturally, changing your settings.



Software Keypad

Entering frequency, callsign or editing memory channels has never been this easy. The software keypad on the touch screen allows you to input alphanumeric characters incredibly quickly.

H:64mm

One Touch Selection

TX

For example, if you want to change the operating band, tap the frequency on the display. The band keys will be shown to select the operating band. Touching the multi-function meter indicator for 1 second will quickly change the transmit meter functions.

Innovative Design

Touch Screen Control Portal

The radio control head features a large, multi-function, "touch screen" dot-matrix LCD display that is positioned for easy view and operation. The controller is compact in size, making it ideal for limited vehicle or desktop space.

Resistive Touch Screen

The 48.6×75.9 mm large resistive touch screen display can be operated even while wearing gloves.



Controller Mounted Speaker and Jacks

The unique remote head design is perfect for providing loud, clear audio as well as jacks for an external speaker/headphones as well as a key and microphone.

W:165mm









D:78.5mm



HF/50/70/144/430MHz Multi-band, Multi-mode

The IC-7100 fully covers the HF, 50, 70, 144, 430 MHz amatuer bands in multiple modes, providing 100W on HF/50MHz bands, 50W on 70/144MHz bands and 35W on 430MHz band.

Digital Features Controlled by the IF DSP

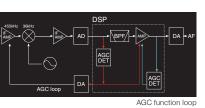
A high-performance 32-bit floating point IF DSP delivers rich digital signal processing features, including digital IF filter, digital twin PBT, noise reduction, CW auto tune, etc. Those digital features work on all bands from HF to V/UHF bands.



DSP Controlled AGC Function Loop

The digital signal processing is incorporated into the AGC function loop. The results of signal processing provide feedback to the AGC function.

The AGC function works on the intended signal and produces a constant audio output. The AGC time constants are flexibly adjustable from slow, middle, fast (or AGC off) for each operating mode.



D-STAR Ready (Digital Voice + Data)

The IC-7100 provides D-STAR (Digital Smart Technology for Amateur Radio) DV mode digital voice and low speed data communication.

DR (D-STAR Repeater) Mode Operation

The DR mode operation makes the D-STAR operation simple and straight forward, even if you are new to D-STAR operation.

Near Repeater Function

With an external, 3rd party GPS*, search the internal database based on your location.

* External GPS receiver or manual data input required.

SD Memory Card Slot for Saving Data

When used with an SD card, the SD card can store various contents including voice memory, memory channels, D-STAR repeater memories and other personal settings can be saved to the SD card and can be loaded to the transceiver.



FILE

N SKIP (VOICE) CS CD

DR mode display

(7) 0.3m

1.6ml
1.6ml
1.6ml
1.6ml



HF/VHF/UHF ALL MODE TRANSCEIVER

Easy Vehicle Mounting with Optional MBF-1

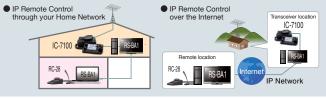
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



Optional RS-BA1 IP Remote Control Software

The optional RS-BA1 software allows you to operate the IC-7100 from a remote PC over the Internet or local home network.





Built-in RTTY Functions

The built-in RTTY decoder allows you to instantly read an RTTY message on the display. No external TNC or PC required for reading. The eight RTTY memories can memorize and transmit often used RTTY sentences. The RTTY memory is 70 character per memory channel.

Other Features

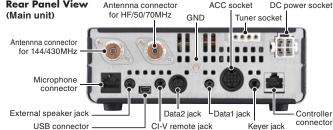
● CW full break-in, CW receive reverse, CW auto tuning ● Optional multi-function microphone, HM-151 ● Band scope and SWR graphic display ● RF speech compressor controlled by the DSP ● Voice memory function ● Multi-function Meter ● 495 regular, 4 call, 6 scan edge and 900 DR mode repeater channels ● 4 channels TX voice memories ● ±0.5ppm frequency stability ● Auto reply function* ● Digital callsign squelch and digital code squelch* ● 12kHz IF output for DRM (Digital Radio Mondiale) receive

* D-STAR DV mode only



SPECIFICATIONS

14.000–14 28.000–29	999 .350 1	3.500-		7.000-7.1				
1.810–1.9 14.000–14 28.000–29	999 .350 1	3.500-	3.800	7.000-7.1				
14.000–14 28.000–29	.350							
1.810-1.999 3.500-3.800 7.000-7.100 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 70.000-70.500 144.000-146.00 430.000-440.000 50.000-52.000 70.000-70.500 144.000-146.00								
		* ² Sor	ne frequ	ency band	s are	rding to version not guarantee		
USB, LSB, CW, RTTY, AM, DV, FM, WFM (Rx only)								
495 regular, 4 call, 6 scan edges, 900 D-STAR repeater channel								
SO-239×2 (one each for HF/50/70MHz and 144/430MHz, 50Ω)								
TX (Max. power): 22A (HF/50/70MHz), 16A (144/430MHz)								
Main unit Controller	167>	<58×22	5 mm					
Main unit	2.31	kg	(Controller		0.5 kg		
Т	RANS	MITTE	B					
	701	11-	14414	420				
						_		
	-		2-500	v 2-,	5577	—		
SSB : Digita	al P.S.N	l. modu						
Less than -	-60dB	(70/144	/430MH	s (nan –63 z)				
More than !	50dB							
More than 50dB								
	REC	EIVER						
124.487MHz, 455kHz, 36kHz 134.732MHz, 10.700MHz								
					144/430MHz			
-						0.11µV		
13uV						1µV		
						0.18µV		
						0.35µV		
-		_	-					
<u> </u>				1				
Maxath		اما	a than					
		2260	<u>)</u>					
		IF/ 50/7	'0MHz), I	More than		(144/430MHz)		
(except 1/2	IE thro	ugh on	50/70ML	IT IF throu	iah o	n 1///MHz)		
	495 regula SO-239×2 -10°C to +6 ±0.5ppm (0 13.8V DC ± TX (Max. pm (1 Main unit Controller Main unit Controller Main unit T HF/50MHz 2-100W 1-30W 5SB : Digital Less than- Less	495 regular, 4 call SO-239x2 (one ec) -10°C to +60°C ±0.5ppm (0°C to 4 13.8V DC ±15% TX (Max. power): 3 RX (Max. audio/stall Main unit 167; Controller 165; Main unit 2.31; TRANS TRANS HF/50MHz 700; 2-100W 2-5; 1-30W 1-1; SSB : Digital Phase Less than -50dB Less than -50dB More than 50dB More than 50dB REC 124.487MHz, 455; 134.732MHz, 10.7; (HF: Preamp-1 ON, 5); 0.5-1.8MHz - 0.1 13µV 2; 0.5µV (28-29.7) (28-29.7)	495 regular, 4 call, 6 scar SO-239x2 (one each for I -10°C to +60°C ±0.5ppm (0°C to +50°C € 13.8V DC ±15% TX (Max. power): 22A (HF RX (Max. audio/standby): Main unit 167x58x22! Controller 165x64x78. Main unit 167x58x22! Controller 165x64x78. Main unit 2.3 kg TRANSMITTE HF/50MHz 70MHz 2-100W 2-50W 1-30W 1-15W SSB : Digital P.S.N. modu FM : Digital phase modula Less than -50dB (HF bar More than 50dB RECEIVER 124.487MHz, 455kHz, 36 134.732MHz, 10.700MHz - 0.15µV - 0.15µV - 0.15µV 13µV 2µV 0.5µV (28-29.7MHz) - - - More than Les 2.4kHz/-6dB 700H 500Hz/-6dB 700H 500Hz/	495 regular, 4 call, 6 scan edges, SO-239×2 (one each for HF/50/70 -10°C to +60°C ±0.5ppm (0°C to +50°C @ 430MH 13.8V DC ±15% TX (Max. power): 22A (HF/50/70M RX (Max. audio/standby): 1.2A/0.9 Main unit 167×58×225 mm Controller 165x64x78.5 mm Main unit 165x64x78.5 mm Controller HF/50MHz 70MHz 144MH 2-100W 2-50W 2-50V 1-30W 1-15W - SSB : Digital P.S.N. modulation, AI FM : Digital phase modulation, DV Less than -50dB (HF bands), Les Less than -50dB (HF bands), Les Less than -50dB (MF bands), Les Less than -50dB Lest than 50dB More than 50dB Nore than 50dB 1012µ/ 134/732MHz, 10.700MHz: Pream 0.5-1.8MHz 1.8-29.995MHz 50MHz 134.732MHz, 10.700MHz 0.12µ/ 134/732MHz, 10.700MHz 0.12µ/ 10.5µ/ 0.5µ/ (28-29.7MHz) 0.63µ/ 0.63µ/ - - 0.15µ/ 0.5µ/ (28-29.7MHz) 0.63µ/ 0.63µ/ - - More than Less than 2.4kHz/-6dB 3.4kHz/-40dE 500Hz/-40dE 500Hz/-6dB 100Hz/-40dE 500Hz/-40dE 12kHz/-6dB 10kHz/-40dE 12kHz/-40dE	495 regular, 4 call, 6 scan edges, 900 D-ST/ SO-239x2 (one each for HF/50/70MHz and 1 -10°C to +60°C ±0.5ppm (0°C to +50°C @ 430MHz) 13.8V DC ±15% TX (Max. power): 22A (HF/50/70MHz). 16A (1- RX (Max. audio/standby): 1.2A/0.9A Main unit 167x58x225 mm Controller 165x64x/78.5 mm Main unit 2.3 kg Controller 155x64x/78.5 mm Main unit 2.3 kg Controller 165x64x/78.5 mm Main unit 2.3 kg Controller 165x64x/78.5 mm Main unit 2.3 kg Controller 144MHz 430 2-100W 2-100W 2-50W 2-100W 2-50W 2-100W 2-50W 2-100W 2-50W SB : Digital P.S.N. modulation, AM : Digital I FM : Digital phase modulation, DV : GMSK dig Less than -60dB (70/144/430MHz) More than 50dB RECEIVER 124.487MHz, 455kHz, 36kHz 134.732MHz, 10.700MHz 13µV 2µV	495 regular, 4 call, 6 scan edges, 900 D-STAR re SO-239x2 (one each for HF/50/70MHz and 144/4; -10°C to +60°C ±0.5ppm (0°C to +50°C @ 430MHz) 13.8V DC ±15% TX (Max. power): 22A (HF/50/70MHz). 16A (144/43 X (Max. audio/standby): 1.2A/0.9A Main unit 167x58x225 mm Controller 165x64x78.5 mm Main unit 2.3 kg Controller TRANSMITTER 144MHz 430MHz 2–100W 2–50W 2–35W 1-30W 1–15W – SSB : Digital P.S.N. modulation, DV : GMSK digital p Less than –50dB (HF bands), Less than –63dB (5 More than 50dB More than 50dB More than 50dB Nore than 50dB More than 50dB 201/14/4/30MHz) More than 50dB 1015µV 0.5-1.8MHz 1.3.29.995MHz 50MHz 10.15µV 134.732MHz, 10.700MHz: Preamp-2 ON, 144/430 0.5-1.8MHz 1.3.29.995MHz 50MHz 1.5µV 13µV 2µV 1µV 14.487MHz, 455KHz, 36kHz 13.4/732MHz 13.4/732MHz 1.5µV 1.9µV <tr< td=""></tr<>		





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

 OPC-2321 CONTROL CABLE ADAPTER FOR AH-740 • OPC-589 MODULAR 8-PIN CABLE ADAPTER

OPTIONS

Data 1 Jack (IC-7100) to RS-232C cable.

OPC-2218LU DATA CABLE for DV mode Data 1 Jack (IC-7100) to USB cable.

Supplied accessories: (* May differ depending on version) Hand microphone, HM-198 DC power cable CW keyer plug Spare fuses • 13-pin plug ACC cable Separation cable, OPC-2253 USB cable Ferrite bead*

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