

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

TW

SB

B.M

ICON

BW SFT

BW

BANK

NB NB MN

2.4k

Fo 0

DEF

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

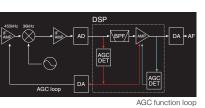
A high-performance 32-bit floating point IF DSP delivers rich digital signal processing features, including digital IF filter, digital twin PBT, noise reduction, CW auto tune, etc. Those digital features work on all bands from HF to V/UHF bands.



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

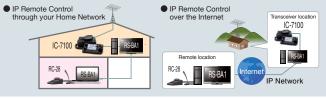
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



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

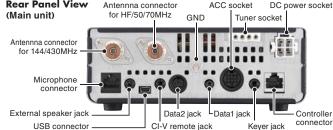
● CW full break-in, CW receive reverse, CW auto tuning ● Optional multi-function microphone, HM-151 ● Band scope and SWR graphic display ● RF speech compressor controlled by the DSP ● Voice memory function ● Multi-function Meter ● 495 regular, 4 call, 6 scan edge and 900 DR mode repeater channels ● 4 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

		GEN	ERAL						
Frequency coverage	(Unit: MHz)								
Receiver*1	0.030-199.999* ² 400.000-470.000* ²								
Transmit*1	1.810-1.999 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 70.000-70.500 144.000-146.000 430.000-440.000 -440.000 -440.000 -440.000								
			* ² Sor	ne frequenc	y bands are	ording to version onot guaranteed			
Mode	USB, LSB, CW, RTTY, AM, DV, FM, WFM (Rx only)								
No of memory channels	495 regular, 4 call, 6 scan edges, 900 D-STAR repeater channels								
Antenna connector	SO-239×2 (one each for HF/50/70MHz and 144/430MHz, 50Ω)								
Operating Temp. range	-10°C to +60°C								
Frequency stability	±0.5ppm (0°C to +50°C @ 430MHz)								
Power supply requirement Current drain (at 13.8V DC)	13.8V DC ±15% TX (Max. power): 22A (HF/50/70MHz). 16A (144/430MHz) RX (Max. audio/standby): 1.2A/0.9A								
Dimensions (W×H×D, projections not included)	Main unit 167×58×225 mm Controller 165×64×78.5 mm								
Weight (approx.)	Main unit	2.3 k	kg	Cor	ntroller	0.5 kg			
	TR	ANS	мітте	R					
Output power (at 13.8V DC)									
	HF/50MHz	70	ИНz	144MHz	430MHz	,			
SSB/CW/RTTY/FM/DV	2-100W		50W	2-50W	2-35W				
AM	1-30W		5W	-	-				
Modulation system	SSB : Digital P.S.N. modulation, AM : Digital low power modulation FM : Digital phase modulation, DV : GMSK digital phase modulatior								
Spurious emissions	Less than -60dB (HF bands), Less than -63dB (50MHz) Less than -60dB (70/144/430MHz)								
Carrier suppression	More than 50	0dB							
Unwanted sideband	More than 50	0dB							
		REC	EIVER						
Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM	124.487MHz, 455kHz, 36kHz 134.732MHz, 10.700MHz								
Sensitivity	(HF: Preamp-1 ON, 50/70MHz: Preamp-2 ON, 144/430MHz: Preamp ON								
		0.5–1.8MHz 1.8–29.995MHz		50MHz	70MHz	144/430MHz			
SSB/CW (10dB S/N)	_		5µV	0.12µV	0.15µV	0.11µV			
AM (10dB S/N)	13µV	2µV		1µV	1µV	1µV			
FM (12dB SINAD)	0.5µV (28-			0.25µV	0.25µV	0.18µV			
DV (1% BER)		(28–29.7MHz)		0.63µV	0.63µV	0.35µV			
WFM (12dB SINAD)	-	-	_	_		-108MHz)			
Selectivity									
,	More that	n	Lee	ss than					
SSB (BW=2.4kHz, sharp)	2.4kHz/-6			Iz/-40dB					
CW (BW=500Hz, sharp)	500Hz/-6dB		700Hz/-40dB						
RTTY (BW=500Hz)	500Hz/-6dB		800Hz/-40dB						
AM (BW=6kHz)	6.0kHz/-6dB			z/-40dB					
	12kHz/-6dB			z/-40dB					
FM (BW=15kHz)	-50dB			_					
FM (BW=15kHz) DV (12.5kHz spacing)									
	More than 70 (except 1/2 IF								





• OPC-2254 SEPARATION CABLE 5m (16ft) OPC-2321 CONTROL CABLE ADAPTER FOR AH-740

OPTIONS

PS-126

• OPC-589 MODULAR 8-PIN CABLE ADAPTER

- Data 1 Jack (IC-7100) to RS-232C cable.
- 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 Separation cable, OPC-2253 • 13-pin plug ACC cable USB cable Ferrite bead*

D-STAR (Digital Smart Technology for Amateur Radio) is a digital radio protocol developed by JARL (Japan Amateur Radio League). Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. All other trademarks are the properties of their respective holders.

Icom Inc. 1-1-32, Kam	i-minami, Hirano-ku, Osaka 547-0003, Jap	oan Phone: +81 (06) 6793 5302 Fa	x: +81 (06) 6793 0013 www.icc	om.co.jp/world	Count on us!	
Icom America Inc. 2380 116th Avenue NE, Bellevue, WA 98004, U.S.A. Phone: +1 (425) 454-8155 Every	Icom (Europe) GmbH Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany Bienen und Geföld 78626, Germany	Icom (UK) Ltd. Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone :+44 (0) 1227 741741	Icom New Zealand 146A Harris Road, East Tamaki, Auckland, New Zealand Phone : +64 (09) 274 4062	Your local d	local distributor/dealer:	
Fax :+1 (425) 454-1509 E-mail : sales@icomamerica.com URL : http://www.icomamerica.com	Phone : +49 (6196) 76685-0 Fax : +49 (6196) 76685-50 E-mail : info@icomeurope.com	Fax : +44 (0) 1227 741742 E-mail : info@icomuk.co.uk URL : http://www.icomuk.co.uk	Fax : +64 (09) 274 4708 E-mail : inquiries@icom.co.nz URL : http://www.icom.co.nz			
Icom Canada	URL : http://www.icomeurope.com	Icom France s.a.s.	Asia Icom Inc.			
Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada	Icom Spain S.L. Ctra. Rubi, No. 88 "Edificio Can Castanyer"	Zac de la Plaine, 1 Rue Brindejonc des Moulinais, BP 45804,				
Phone : +1 (604) 952-4266 Fax : +1 (604) 952-0090 E-mail : info@icomcanada.com URL : http://www.icomcanada.com	Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone : +34 (93) 590 26 70 Fax : +34 (93) 589 04 46	31505 Toulouse Cedex 5, France Phone : +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00 E-mail : icom@icom-france.com	Phone : +886 (02) 2559 1899 Fax : +886 (02) 2559 1874 E-mail : sales@asia-icom.com URL : http://www.asia-icom.com			

Phone : +34 (93) 590 26 70 Fax : +34 (93) 589 04 46 E-mail : icom@icomspain.com URL : http://www.icomspain.com

Rua Itororó, 444 Padre Eustáquio Belo Horizonte MG, CEP: 30130-150, Brazil

Phone : +55 (31) 3582 8847 Fax : +55 (31) 3582 8987

E-mail : sales@icombrazil.com

Icom Brazil

Icom Polska Sp. Z o.o.

80-286 Gdansk, Jaskowa Dolina St. 75, Poland Phone : +48 (58) 551 0484 Fax : +48 (58) 551 4720 E-mail : icompolska@icompolska.com.pl URL : http://www.icompolska.com.pl URI

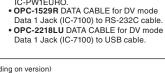
Fax : +33 (5) 61 36 03 00 E-mail : icom@icom-france.com URL : http://www.icom-france.com

: http://www.icom.net.au

URI

Icom (Australia) Pty. Ltd. Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone : +61 (03) 9549 7500 Fax : +61 (03) 9549 7505 E-mail : sales@icom.net.au







AH-2b ANTENNA

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

AH-4 HE+50MHz AUTO-