ICOM

9COM

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7100

Intuitive Touch Screen, Quick Response, Multi-band Radio



HF/50/144/440MHz
Controls at Your Fingertips
with an Angled Display



D-STAR



Fingertip Controls



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



Straight Forward Operation

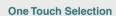
TX History

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.



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.



Angled Display

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; 1.91×2.99 in large resistive touch screen display can be operated while wearing gloves.



I 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.







HF/50/144/430/440MHz Multi-band, Multi-mode

The IC-7100 fully covers the HF, 50, 144, 430/440 MHz amateur bands in multiple modes, providing 100W on HF/50MHz bands, 50W on 144MHz band and 35W on 430/440MHz 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.



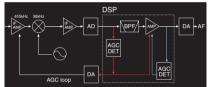
32-bit floating point IF DSF

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.



AGC function loop

D-STAR DV Mode (Digital Voice + Data)

The IC-7100 provides D-STAR 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.

■ NEAR REPEATER 1/5Ⅱ		
Bellevue K7LWH B	(a) 0.3ml	A
Bellevue K7LWH C	(a) 0.3ml	님
Bellevue N7IH B	(*) 1.5ml	Y
Bellevue N71H C	(#) 1.6ml	5

Near repeater function

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.



SD memory card slot

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

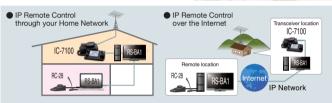


Optional RS-BA1 IP Remote Control Software

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

removed easily.





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* 12.5kHz IF output for DRM (Digital Radio Mondiale) receive
- * D-STAR DV mode only



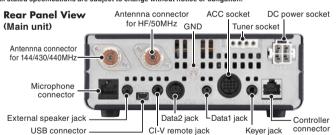
HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7100

C-71(

SPECIFICATIONS

	GENERAL		
Frequency coverage*1 (Unit: MHz)			
Receive	0.030-199.999*2 400.000-470.000*2		
Transmi	1.800-1.999 3.500-3.999 5.255-5.405*2 7.000-7.300 10.100-10.150 14.000-14.350 18.068-18.168 21.000-21.40 24.890-24.990 28.000-29.700 50.000-54.000 144.000-148.00 430.000-450.000		
*1 Showing USA version. Varies according to version *2 Some frequency bands are not 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 channel		
Antenna connector	SO-239×2 (one each for HF/50MHz and 144/430/440MHz, 509		
Operating Temp. range	-10°C to +60°C; +14°F to +140°F		
Frequency stability	±0.5ppm (0°C to +50°C @ 430MHz)		
Power supply requirement	13.8V DC ±15%		
Current drain (at 13.8V DC	TX (Max. power): 22A (HF/50MHz), 16A (144/440MHz) RX (Max. audio/standby): 1.2A/0.9A		
Dimensions (W×H×D, projections not included)	Main unit 167×58×225 mm; 6.57×2.28×8.86 in Controller 165×64×78.5 mm; 6.5×2.52×3.09 in		
Weight (approx.)	Main unit 2.3 kg; 5.1 lb Controller 0.5 kg; 1.1 lb		
	TRANSMITTER		
Output power (at 13.8V DC			
output portor at 10.07 De	HF/50MHz 144MHz 430/440MHz		
SSB/CW/RTTY/FM/D	V 2–100W 2–50W 2–35W		
AM	1–30W – –		
Modulation system	SSB : Digital P.S.N. modulation, AM : Digital low power modulation FM : Digital phase modulation, DV : GMSK digital phase modulation		
Spurious emissions	Less than -50dB (HF bands), Less than -63dB (50MHz) Less than -60dB (144/430/440MHz)		
Carrier suppression			
Unwanted sideband	More than 50dB		
	RECEIVER		
Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM	124.487MHz, 455kHz, 36kHz 134.732MHz, 10.700MHz		
Sensitivity	(HF: Preamp-1 ON, 50MHz: Preamp-2 ON, 144/430/440MHz: Preamp C		
000/014/	0.5-1.8MHz 1.8-29.9MHz 50-54MHz 144/430/440MHz		
SSB/CW AM	- 0.15μV 0.12μV 0.11μV 13μV 2μV 1μV 1μV		
FM	0.5μV (28–29.7MHz) 0.25μV 0.18μV		
DV	1µV (28–29.7MHz) 0.63µV 0.35µV		
WFM	- 10μV (76–108MHz)		
Selectivity			
	More than Less than		
SSB (BW=2.4kHz, sharp	o) 2.4kHz/–6dB 3.4kHz/–40dB		
CW (BW=500Hz, sharp)	500Hz/-6dB 700Hz/-40dB		
RTTY (BW=500Hz)	500Hz/-6dB 800Hz/-40dB		
AM (BW=6kHz)	6.0kHz/-6dB 10kHz/-40dB		
FM (BW=15kHz) DV (12.5kHz spacing	12kHz/-6dB 22kHz/-40dB		
Spurious and image rejection ratio	-50dB - More than 70dB (HF/ 50MHz), More than 65dB (144/430/440MHz) (except 1/2 IF through on 50MHz, IF through on 144MHz)		
Audio output power More than 2.0W (10% distortion, 8Ω load, 13.8V DC)			
	All stated specifications are subject to change without notice or obligation.		
otated specifications are s	and the summer without notice of obligation.		



OPTIONS

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























- CS-7100 CLONING SOFTWARE CT-17 CI-V | EVEL CONVERTER
- OPC-2253 SEPARATION CABLE 3.5m (11ft)
- OPC-2254 SEPARATION CABLE 5m (16ft)
- OPC-2321 CONTROL CABLE ADAPTER FOR
- OPC-589 MODULAR 8-PIN CABLE ADAPTER



• OPC-599 CABLE ADAPTER Converts 13-pin ACC connector to 7-pin + 8-pin ACC connector for connection with IC-PW1.

For use with RS-BA1

Count on us!

- OPC-1529R DATA CABLE for DV mode
- 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)

www.icom.co.jp/world

- Hand microphone, HM-198
- Separation cable, OPC-2253 13-pin plug ACC cable
- DC power cable

• CW keyer plug Spare fuses USB cable Ferrite bead*

D-STAR (Digital Smart Technology for Amateur Radio) is a digital radio protocol developed by JARL (Japan Amateur Radio League). lcom, 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 America Inc.

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A Phone: +1 (425) 454-8155 Fax: +1 (425) 454-1509 E-mail: sales@icomamerica.com
URL: http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266 Fax :+1 (604) 952-0090 E-mail: info@icomcanada.com : http://www.icomcanada.com

Icom Brazil

Rua Pernambuco, 353 - Sala 901 Belo Horizonte, M.G. 30130-150. Brazil

Phone: +55 (31) 3582 8847 Fax : +55 (31) 3582 8987 E-mail : sales@icombrazil.com

Icom (Europe) GmbH

ICOM INC. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

Communication Equipment Auf der Krautweide 24 Add to Red Red P44 65812 Bad Soden am Taunus, Germany Phone : +49 (6196) 76685-0 Fax : +49 (6196) 76685-50 E-mail : info@icomeurope.com URL: http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax :+34 (93) 589 04 46
E-mail:icom@icomspain.com
URL :http://www.icomspain.com

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

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone : +44 (0) 1227 741741 Fax : +44 (0) 1227 741742 E-mail : info@icomuk.co.uk URL : http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonc des Moulinais, BP 45804, 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 : http://www.icom-france.com

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

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: http://www.icom.co.nz

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax : +886 (02) 2559 1874 E-mail: sales@asia-icom.com URL: http://www.asia-icom.com

Shanghai Icom Ltd.

No.101, Building 9, Caifuxingyuan Park No. 101, Bulloting V., Latrixing/Juan Park, No. 188 Maoting Road, Chedun Town, Songjiang District, Shanghai, 201611, China Phone : +86 (021) 6153 2768 Fax : +86 (021) 5765 9987 E-mail : bjicom@bjicom.com URL : http://www.bjicom.com Your local distributor/dealer: