COM

9COM

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7100

Intuitive Touch Screen, Quick Response, Multi-band Radio



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



DIG/TAL



# Finger Touch Operation



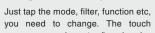
The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.





### 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.



you need to change. The touch screen responds naturally, changing your settings.

#### **One Touch Selection**

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.



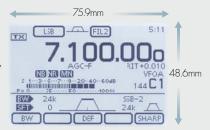
# Innovative Design

#### 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.







#### 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.



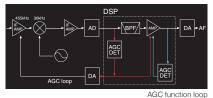
32-bit floating point IF DSF

### **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.



### **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.



Near repeater function

(\*) 1.6ml

## 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**

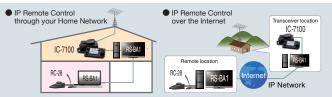
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



#### **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 dtainnels TX voice memorises ◆ ±0.5 pm frequency state of the stat
- Auto reply function\* Digital callsign squelch and digital code squelch\* 12kHz IF output for DRM (Digital Radio Mondiale) receive
- \* D-STAR DV mode only



HF/VHF/UHF ALL MODE TRANSCEIVER

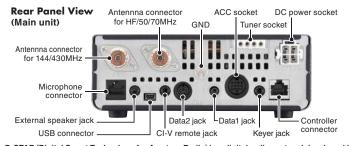
IC-7100

# **C-710**

#### **SPECIFICATIONS**

				IERAL				
Frequency coverage		(Unit: MHz)						
Receiver*1		0.030-199.999*2 400.000-470.000*2						
		1.810-1.999 3.500-3.800 7.000-7.200 10.100-10.15						
	Transmit*1		14.000-14.350 18.068-18.168 21.000-21.450 24.890-24.99					
			28.000-29.700 50.000-52.000 70.000-70.500 144.000-146.00					
		430.000-440.000						
		*1 SI	nowing	EUR (#	03) version	. Varies acc	ording to version	
Mode		USB. LSB.	CW. P			WFM (Rx o		
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/50/70MHz and 144/430MHz, $50\Omega$ )						
Operating Temp. range		-10°C to +60°C						
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/50/70MHz), 16A (144/430MHz) RX (Max. audio/standby): 1.2A/0.9A						
Dimensions (	W×H×D,	Main unit	167:	×58×225	5 mm			
projections not included)		Controller	165:	×64×78.				
Weight (approx.)		Main unit	2.3	kg	Co	ntroller	0.5 kg	
		Т	RANS	MITTE	R			
Output nower	(at 13.8V DC)							
Output power	(at 10.0 v DO)	HF/50MHz	701	иHz	144MHz	430MH	17	
CCD/CV	V/RTTY/FM/DV	2–100W		50W	2-50W	2–35V		
AM		1–30W		15W	2-3000	2-331	<u>v</u>	
			1	-				
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 (70/144/430MHz)						
Carrier suppression		More than 50dB						
Unwanted sideband		More than 50dB						
			REC	<b>EIVER</b>				
Intermediate	frequencies							
SSB/CW/AM/FM/RTTY/DV		124.487MHz, 455kHz, 36kHz						
WFM		134.732MHz, 10.700MHz						
Sensitivity		(HF: Preamp-1 ON, 50/70MHz: Preamp-2 ON, 144/430MHz: Preamp O						
		0.5-1.8MHz   1.8-29.995MH		995MHz	50MHz	70MHz	144/430MHz	
SSB/CW (10dB S/N)		_	0.1	5μV	0.12µV	0.15µV	0.11µV	
AM (10dB S/N)		13µV	2	μV	1µV	1µV	1µV	
FM (12dB SINAD)		0.5µV (28-29.7MH)		MHz)	0.25µV	0.25µV	0.18µV	
DV (1% BER)		1uV (28-29.7MF		Hz)	0.63µV	0.63µV	0.35µV	
WFM (12dB SINAD)		_		_	_		6–108MHz)	
Selectivity	,							
Delectivity		Maya Ma		اما				
CCD (DW 0 4ld la shore)		More than		Less than				
SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp)		2.4kHz/-6dB		3.4kHz/–40dB 700Hz/–40dB				
RTTY (BW=500Hz)		500Hz/-6dB		800Hz/-40dB				
		500Hz/-6dB						
AM (BW=6kHz)		6.0kHz/-6dB		10kHz/-40dB				
FM (BW=15kHz)		12kHz/–6dB		22kHz/-40dB				
DV (12.5kHz spacing)		-50dB -						
	Limage	More than	70dB (H		'0MHz), Mo		IB (144/430MHz	
Spurious and								
Spurious and rejection ratio		(except 1/2 More than 2					on 144MHz)	

All stated specifications are subject to change without notice or obligation.



#### **OPTIONS**

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



AH-4 HF+50MHz AUTO-MATIC ANTENNA TUNER rs 3.5-54MHz with a 7m (23ft) or longer wire antenna























- CS-7100 CLONING SOFTWARE
- CT-17 CI-V LEVEL CONVERTER
- OPC-2253 SEPARATION CABLE 3.5m (11ft)
- OPC-2254 SEPARATION CABLE 5m (16ft) • OPC-2321 CONTROL CABLE ADAPTER FOR AH-740
- 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-PW1FURO
- 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)

- Hand microphone, HM-198 Separation cable, OPC-2253
  - DC power cable
- CW keyer plug Spare fuses

• 13-pin plug ACC cable

www.icom.co.jp/world

• USB cable

• Ferrite bead\*

Count on us!

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

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

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.c

#### 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
URL : http://www.icomcanada.com

#### Icom Brazil

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 (Europe) GmbH

Communication Equipment Auf der Krautweide 24 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 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 : +48 (58) 551 4720 E-mail: icompolska@icompolska.com.pl URL: http://www.icompolska.com.pl

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

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (0) 1227 741741 Fax: +44 (0) 1227 741742

Fax : +44 (U) 1227 (41742 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

Icom (Australia) Pty. Ltd.

URL: http://www.icom-france.com

#### 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

#### Asia Icom Inc.

ASIA TeOM THE.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipel, 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. 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 : http://www.bjicom.com

Your local distributor/dealer: