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

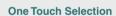
TX History

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.



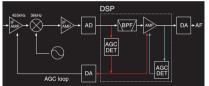
32-bit floating point IF DSF

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.

TRI	DV	FIL3		9.52
TO ASS	CQCQCQ			
FROM	Bellevue 443.575.00	N7IH	В	
5.1- Pa.0-	3-5-7-9-20	-40-60dl		P.AMP
SCAL	(SKIP)(VC	ICE)	3	(0)
		DR mo	de	display

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 1/5■						
Bellevue K7LWH B	Ø 0.3mi					
Bellevue K7LWH C	(a) 0.3ml					
Bellevue N7IH B	(*) 1.6ml	Y				
Bellevue N7IH 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

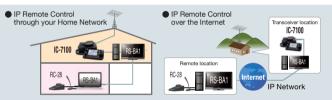
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



Optional RS-BA1 IP Remote Control Software

The optional RS-BAI 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

- ◆ 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-710

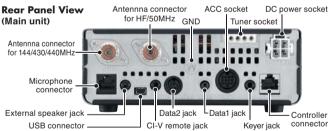
SDECIEIC ATIONS

SPECIFIC	AIIO	N5				
			GENERA	<u>L</u>		
Frequency cover	age*1	(Unit: MHz)				
	Receiver	0.030-199.	999*2 40	0.000-470.	000*2	
	Transmit		150 14.000 990 28.000 0.000	-14.350 18 -29.700 50		7.000–7.300 21.000–21.450 144.000–148.000
						rding to version. 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 channels				
Antenna connect		SO-239×2 (one each for HF/50MHz and 144/430/440MHz, 50Ω)				
Operating Temp. range		-10°C to +60°C; +14°F to +140°F				
Frequency stabil		±0.5ppm (0°C to +50°C @ 430MHz)				
Power supply req	uirement	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) Con	troller 0.5 kg	g; 1.1 lb
		T	RANSMIT	ΓER		
Output power (at	13.8V DC)					
		HF/50MHz	144MHz	430/440M	Hz	
SSB/CW/RTTY/FM/DV		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 –60dB (HF bands), Less than –63dB (50MHz) Less than –60dB (144/430/440MHz)				
Carrier suppress	ion	More than 50dB				
Unwanted sideba	and	More than 50dB				
			RECEIVE	R		
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 ON)				
					144/430/440MI	Hz
SSB/CW (BW=2.4kHz, 10dB S/N)		-	0.15µV	0.12μV	0.11µV	
AM (BW=6kHz, 10dB S/N)		13µV	2µV	1µV	1µV	
FM (BW=15kHz, 12dB SINAD) DV (1% BER)		0.5µV (28- 1µV (28-		0.25μV 0.63μV	0.18μV 0.35μV	
WFM (12dB SINAD)		- 1μV (20-			76–108MHz)	_
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More than 70dB (HF/ 50MHz), More than 65dB (144/430/440MHz) (except 1/2 IF through on 50MHz, IF through on 144MHz) Spurious and image rejection ratio 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



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 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-PW1.
- 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
- CW keyer plug
- Spare fuses

• DC power cable

- USB cable
- Ferrite bead*

Count on us!

For use with RS-BA1

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