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.



TX History

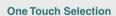
Straight Forward Operation

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.



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

I 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.



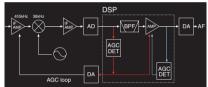
32-bit floating point IF DSF

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 1/5■							
Bellevue K7LVH B	Ø 0.3ml						
Bellevue K7LWH C	(a) 0.3ml	믬					
Bellevue N7IH B	(*) 1.5ml	*					
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

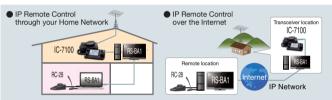


Optional RS-BA1 IP Remote Control Software

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



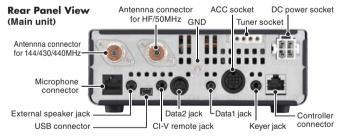
HF/VHF/UHF ALL MODE TRANSCEIVER

7 10

C-710

SPECIFICATIONS

			GEN	IERAI						
Frequency coverage	(Unit: MHz)									
F	Receiver	0.030-199.999*2 400.000-470.000*2								
		1.800-1.9				5.255-5	.405*2	7.000-	7.300	
		10.100-10.								
	ransmit	24.890-24.	990 2	8.000-	-29.700	50.000-	54.000	144.000-	148.000	
			24.890-24.990 28.000-29.700 50.000-54.000 144.000-148.000 430.000-450.000							
-				wina l	JSA versi	on. Varie	es acco	rding to v	ersion.	
								not guara		
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 connecto		SO-239×2 (one each for HF/50MHz and 144/430/440MHz, 50Ω)								
Operating Temp. ra	-10°C to +60°C; +14°F to +140°F									
Frequency stability	±0.5ppm (0				Hz)					
Power supply requirement		13.8V DC ±			0 1001111					
Current drain (at 13		Tx: 22A (Ma		ver)	RX: 1.2	Δ/0 9Δ	May a	udio/stan	dhy)	
Dimensions (W×H:		Main unit			mm; 6.5				u.e.y.	
projections not inc		Controller								
Weight (approx.)				; 5.1 lb		ntroller		g; 1.1 lb		
TRANSMITTER										
Output power (at 13	3 8V/ DC)									
Output power (at 1)	3.6V DC)				100/110					
		HF/50MHz		MHz	430/440	MHZ				
SSB/CW/RTT	Y/FM/DV	2-100W	2-5	50W	2-35	W				
AM		1-30W		_	_					
Modulation system		SSB : Digital								
Spurious emission	FM: Digital phase modulation, DV: GMSK digital phase modulation Less than –50dB (HF bands), Less than –63dB (50MHz)									
Spurious erriissions		Less than -60dB (144/430/440MHz)								
Carrier suppression		More than 50dB								
Unwanted sideban	More than 50dB									
omanioa oraoban		Wiere triaire		EIVE	,					
Internal late for			HEC	CIVE	1					
Intermediate frequencies SSB/CW/AM/FM/RTTY/DV		104 4071411	- 455	- O	CI-LI=					
WFM		124.487MHz, 455kHz, 36kHz								
Sensitivity		134.732MHz, 10.700MHz (HF: Preamp-1 ON, 50MHz: Preamp-2 ON, 144/430/440MHz: Preamp ON)								
Sensitivity		0.5–1.8MHz							iiip Oiv)	
SSB/	CW	0.3-1.0IVITZ	0.15		0.12µV		.11µV	ΙПΖ		
AM		13uV	2µ		1μV		1µV			
FM		0.5µV (28-			0.25µV	0	.18µV			
DV		1µV (28–2			0.63µV		.35µV			
WFM		'-	_	-	10μÝ (7	76-108N	1Hz)			
Selectivity										
		More than Less than								
SSB (BW=2.4kH		2.4kHz/-6dB		3.4kHz/-40dB						
CW (BW=500H;		500Hz/-6dB		700Hz/-40dB						
		500Hz/-6dB 6.0kHz/-6dB		800Hz/-40dB 10kHz/-40dB						
RTTY (BW=5)			oud							
AM (BW=6kH				ククレト						
AM (BW=5kH FM (BW=15kH	łz)	12kHz/-6	3dB	22kF	lz/–40dB –					
AM (BW=6kH FM (BW=15kH DV (12.5kHz s	dz) spacing)	12kHz/–6 –50dB	SdB		_		854B (1	NA/A30/A	40MH=	
RTTY (BW=5) AM (BW=6kH FM (BW=15kH DV (12.5kHz s Spurious and image	dz) spacing)	12kHz/-6 -50dB More than 7	6dB 70dB (I	HF/ 50I	– MHz), Mo	re than			40MHz	
AM (BW=6kH FM (BW=15kH DV (12.5kHz s	dz) spacing) ge	12kHz/–6 –50dB	odB odB (I odB (I	HF/ 50l ough or	– MHz), Mo n 50MHz,	re than IF throu	gh on 1	144MHz)	40MHz)	



OPTIONS

AT-180 HF+50MHz

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.
- 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
- CW keyer plug
- Spare fuses

• DC power cable

- USB cable
- Ferrite bead*

Count on us!

For use with RS-BA1

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

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