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



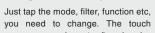
The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.





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.



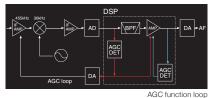
32-bit floating point IF DSF

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

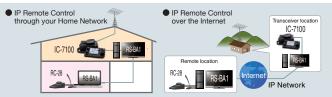
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



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

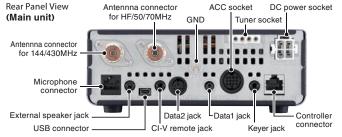
IC-7100

C-710

SPECIFIC ATIONS

SPECIFICATIONS						
		GEN	IERAL			
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 7.000-7.100 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 70.000-70.500 144.000-146.00 430.000-440.000					
	*1 SI	nowing	EUR (#	03) version.	Varies acc	ording to version
						e not guaranteed
Mode	USB, LSB, CW, RTTY, AM, DV, FM, WFM (Rx only)					
No of memory channels Antenna connector	495 regular, 4 call, 6 scan edges, 900 D-STAR repeater channe 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	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, projections not included)	Main unit 167×58×225 mm Controller 165×64×78.5 mm					
Weight (approx.)	Main unit	2.3	kg	Cor	ntroller	0.5 kg
	T	RANS	SMITTE	R		
Output power (at 13.8V DC)						
	HF/50MHz	701	ИНz	144MHz	430MH:	7
SSB/CW/RTTY/FM/DV		_	50W	2-50W	2-35W	
AM	1-30W	_	15W	-		_
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	EIVER			
Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM	124.487MHz, 455kHz, 36kHz 134.732MHz, 10.700MHz					
Sensitivity	(HF: Preamp-1 ON, 50/70MF		lz: Preamp-2	ON, 144/43	0MHz: Preamp OI	
	0.5-1.8MHz 1.8-29.995MH		995MHz	50MHz	70MHz	144/430MHz
SSB/CW (10dB S/N)	_	0.15µV		0.12µV	0.15µV	0.11µV
AM (10dB S/N)	13µV	2μV		1µV	1µV	1µV
FM (12dB SINAD)	0.5µV (28	0.5µV (28–29.7MHz)		0.25µV	0.25µV	0.18µV
DV (1% BER)	1µV (28–29.7MHz		Hz)	0.63µV	0.63µV	0.35µV
WFM (12dB SINAD)			_	-	10μV (76	i–108MHz)
Selectivity						
j	More than		Less than			
SSB (BW=2.4kHz, sharp)	2.4kHz/–6dB		3.4kHz/–40dB			
	500Hz/-6dB		700Hz/–40dB			
	500Hz/-6dB		800Hz/-40dB			
CW (BW=500Hz, sharp)						
CW (BW=500Hz, sharp) RTTY (BW=500Hz)	500Hz/-					
CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz)	500Hz/- 6.0kHz/-	6dB	10kH	z/-40dB		
CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz) FM (BW=15kHz)	500Hz/– 6.0kHz/– 12kHz/–	6dB 6dB	10kH			
CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz) FM (BW=15kHz) DV (12.5kHz spacing) Spurious and image	500Hz/- 6.0kHz/- 12kHz/- -50dl	6dB 6dB 3 70dB (F	10kH 22kH HF/ 50/7	z/–40dB z/–40dB - 70MHz), Moi		
CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz) FM (BW=15kHz) DV (12.5kHz spacing)	500Hz/- 6.0kHz/- 12kHz/- -50dl More than (except 1/2	6dB 6dB 3 70dB (F	10kH 22kH HF/ 50/7 ugh on	z/–40dB z/–40dB - 70MHz), Moi	IF through	B (144/430MHz)

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



OPTIONS







AT-180 HF+50MHz AUTOMATIC 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

• USB cable

• Ferrite bead*

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

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