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



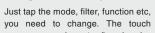
The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.





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.



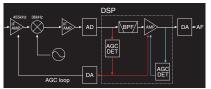
32-bit floating point IF DSF

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.



AGC function loop

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.



DR mode display

NEAR REPEATER Bellevue			
	(Z) 0.3ml	A	
Bellevue K7LWH C	(2) 0.3ml		
Bellevue N7IH B	(*) 1.5ml	۳	
Bellevue	(2) 1 cm/		

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

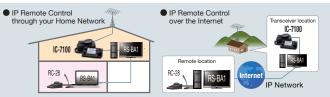
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



Optional RS-BA1 IP Remote Control Software

The optional RS-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 channels TX voice memories ±0.5ppm frequency stability
- \bullet Auto reply function* \bullet Digital callsign squelch and digital code squelch* \bullet 12kHz IF output for DRM (Digital Radio Mondiale) receive
- * D-STAR DV mode only



HF/VHF/UHF ALL MODE TRANSCEIVER

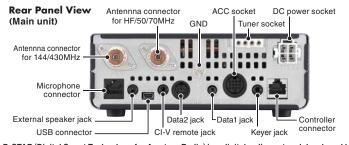
IC-7100

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SPECIFICATIONS

				ERAL					
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 10.100-10.150							
	Transmit*1				18.168 21.0				
	rransmit"	28.000-29.700 50.000-52.000 70.000-70.500 144.000-146.00							
		430.000-440.000							
		*1 SI	nowing	EUR (# *2 Son	03) version. ne frequenc	Varies acc	ording to version		
Mode		USB, LSB,	CW, R		M, DV, FM,				
No of memor	y channels						epeater channe		
Antenna con							430MHz, 50Ω)		
Operating Te	mp. range	-10°C to +	60°C				,		
Frequency st	ability	±0.5ppm (0	°C to -	-50°C €	9 430MHz)				
Power supply		13.8V DC ±							
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 (Main unit	167	<58×225	5 mm				
projections n		Controller	165	<64×78.	5 mm				
Weight (appro	ox.)	Main unit	2.3	κg	Cor	ntroller	0.5 kg		
		7	RANS	MITTE	R				
Output nower	(at 13.8V DC)								
Output power	(at 13.6V DC)		70	41.1-	4.4.4.4.1.1-	4008411			
000/01	UDITY (IELI (D) (HF/50MHz		ИHz	144MHz	430MH			
	V/RTTY/FM/DV	2-100W		50W	2-50W	2-35W	<u></u>		
AM		1-30W	1	I5W	_	-			
Modulation s	ystem	SSB : Digital P.S.N. modulation, AM : Digital low power modulation FM : Digital phase modulation, DV : GMSK digital phase modulation							
Spurious emi	ssions	Less than -50dB (HF bands), Less than -63dB (50MHz) Less than -60dB (70/144/430MHz)							
Carrier suppr	ession	More than 50dB							
Unwanted sid	leband	More than 50dB							
			REC	EIVER					
Intermediate	frequencies								
SSB/CW/AM	/FM/RTTY/DV	M/RTTY/DV 124.487MHz, 455kHz, 36kHz							
WFM			34.732MHz, 10.700MHz						
Sensitivity		(HF: Preamr	-1 ON,	50/70MH	lz: Preamp-2	ON, 144/43	0MHz: Preamp Ol		
,		an . i roump							
		0.5–1.8MHz	1.8-29.	995MHz	50MHz	70MHz	144/430MHz		
	2.4kHz, 10dB S/N)	0.5-1.8MHz		995MHz 5µV	50MHz 0.12μV	70MHz 0.15μV	0.11µV		
SSB/CW (BW=	2.4kHz, 10dB S/N)	0.5-1.8MHz	0.1						
SSB/CW (BW=	lz, 10dB S/N)	0.5–1.8MHz – 13µV	0.1 2	5μV μV	0.12μV 1μV	0.15μV 1μV	0.11μV 1μV		
SSB/CW (BW= AM (BW=6kF FM (BW=15kF	dz, 10dB S/N) dz, 12dB SINAD)	0.5–1.8MHz – 13µV 0.5µV (28	0.1 2 3–29.7	5μV μV MHz)	0.12μV 1μV 0.25μV	0.15μV 1μV 0.25μV	0.11μV 1μV 0.18μV		
SSB/CW (BW= AM (BW=6kH FM (BW=15kH DV (1% BER	Hz, 10dB S/N) Hz, 12dB SINAD)	0.5–1.8MHz – 13µV	0.1 2 3–29.7	5μV μV MHz)	0.12μV 1μV	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW= AM (BW=6kH FM (BW=15kH DV (1% BER WFM (12dB	Hz, 10dB S/N) Hz, 12dB SINAD)	0.5–1.8MHz – 13µV 0.5µV (28	0.1 2 3–29.7	5μV μV MHz)	0.12μV 1μV 0.25μV	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV		
SSB/CW (BW= AM (BW=6kH FM (BW=15kH DV (1% BER	Hz, 10dB S/N) Hz, 12dB SINAD)	0.5-1.8MHz - 13µV 0.5µV (20 1µV (28-	0.1 2 3–29.7 29.7MI –	5μV μV MHz) Hz)	0.12μV 1μV 0.25μV 0.63μV	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW= AM (BW=6kH FM (BW=15kH DV (1% BER WFM (12dB Selectivity	Hz, 10dB S/N) Hz, 12dB SINAD) Hz, 12dB SINAD) SINAD)	0.5-1.8MHz - 13µV 0.5µV (20 1µV (28- - More th	0.1 2 3–29.7 29.7MI –	5μV μV MHz) Hz) Les	0.12μV 1μV 0.25μV 0.63μV -	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW= AM (BW=6kFM (BW=15kFDV (1% BERWFM (12dB))) Selectivity	Hz, 10dB S/N) Hz, 12dB SINAD) Hz, 12dB SINAD) SINAD) -2.4kHz, sharp)	0.5–1.8MHz – 13μV 0.5μV (20 1μV (28– – More th 2.4kHz/–	0.1 2 3-29.7 29.7MI - an 6dB	5μV μV MHz) Hz) Les 3.4kH	0.12μV 1μV 0.25μV 0.63μV - ss than dz/-40dB	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW= AM (BW=6kH FM (BW=15kH DV (1% BER WFM (12dB Selectivity SSB (BW= CW (BW=	Hz, 10dB S/N) Hz, 12dB SINAD) SINAD) SINAD) -2.4kHz, sharp) 500Hz, sharp)	0.5–1.8MHz - 13μV 0.5μV (2ι 1μV (28– - More th 2.4kHz/– 500Hz/–	0.1 2 3-29.7 29.7 29.7 - an 6dB 6dB	5μV μV MHz) Hz) Les 3.4kH 700H	0.12µV 1µV 0.25µV 0.63µV - ss than 1z/–40dB	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW= AM (BW=6k+ FM (BW=15k+ DV (1% BER WFM (12dB Selectivity SSB (BW- CW (BW= RTTY (B	tz, 10dB S/N) tz, 12dB SINAD) t) SINAD) =2.4kHz, sharp) 500Hz, sharp) W=500Hz)	0.5–1.8MHz - 13μV 0.5μV (28 1μV (28– More th 2.4kHz/– 500Hz/–	0.1 2 3-29.7 29.7 29.7 1 - an 6dB 6dB 6dB	5μV μV MHz) Hz) Les 3.4kH 700H 800H	0.12µV 1µV 0.25µV 0.63µV - ss than dz/–40dB lz/–40dB	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW= AM (BW=6kH FM (BW=15kH DV (1% BER WFM (12dB Selectivity SSB (BW= CW (BW=	tz, 10dB S/N) tz, 12dB SINAD) t) SINAD) =2.4kHz, sharp) 500Hz, sharp) W=500Hz)	0.5–1.8MHz - 13μV 0.5μV (2ι 1μV (28– - More th 2.4kHz/– 500Hz/–	0.1 2 3-29.7 29.7 29.7 1 - an 6dB 6dB 6dB	5µV µV MHz) Hz) Les 3.4kH 700H 800H 10kH	0.12µV 1µV 0.25µV 0.63µV - ss than Hz/-40dB Iz/-40dB Iz/-40dB	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW= AM (BW=6k+ FM (BW=15k+ DV (1% BER WFM (12dB Selectivity SSB (BW- CW (BW= RTTY (B	Hz, 10dB S/N) Hz, 12dB SINAD) SINAD) =2.4kHz, sharp) 500Hz, sharp) W=500Hz) =6kHz)	0.5–1.8MHz - 13μV 0.5μV (28 1μV (28– More th 2.4kHz/– 500Hz/–	0.1 2 3-29.7 29.7 29.7 - an 6dB 6dB 6dB	5µV µV MHz) Hz) Les 3.4kH 700H 800H 10kH	0.12µV 1µV 0.25µV 0.63µV - ss than dz/–40dB lz/–40dB	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW- AM (BW-6k+ FM (BW-15k+ FM (12dB WFM (12dB Selectivity SSB (BW- CW (BW- RTTY (B AM (BW-	Hz, 10dB S/N) Hz, 12dB SINAD) SINAD) =2.4kHz, sharp) 500Hz, sharp) W=500Hz) =6kHz)	0.5–1.8MHz	0.1 2 3-29.7 29.7 29.7 4 an 6dB 6dB 6dB 6dB	5µV µV MHz) Hz) Les 3.4kH 700H 800H 10kH	0.12µV 1µV 0.25µV 0.63µV - ss than Hz/-40dB Iz/-40dB Iz/-40dB	0.15μV 1μV 0.25μV 0.63μV	0.11μV 1μV 0.18μV 0.35μV		
SSB/CW (BW- AM (BW-6k+ FM (BW-15k+ FM (12dB WFM (12dB Selectivity SSB (BW- CW (BW- RTTY (B AM (BW-	Hz, 10dB S/N) tz, 12dB SINAD) SINAD) =2.4kHz, sharp) 500Hz, sharp) W=500Hz) =6kHz) =15kHz) kHz spacing)	0.5–1.8MHz - 13μV 0.5μV (2: 1μV (28– - More th 2.4kHz/- 500Hz/- 6.0kHz/- 12kHz/50dl More than	0.1 2 3-29.7 29.7 29.7 4 an 6dB 6dB 6dB 6dB 6dB 6dB 6dB 70dB (H	5µV µV MHz) Hz) Les 3.4kF 700H 800H 10kH 22kH	0.12µV 1µV 0.25µV 0.63µV - ss than Iz/-40dB Iz/-40dB Iz/-40dB Iz/-40dB Iz/-40dB	0.15µV 1µV 0.25µV 0.63µV 10µV (76	0.11μV 1μV 0.18μV 0.35μV		

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



OPTIONS



























- 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 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 • 13-pin plug ACC 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).

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