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



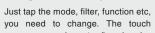
The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.





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.



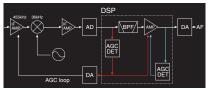
32-bit floating point IF DSF

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

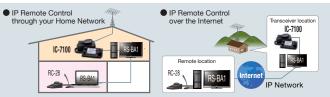
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



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

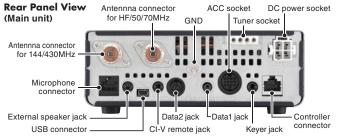
IC-7100

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SPECIFICATIONS

		GEN	ERAL					
Frequency coverage	(Unit: MHz)							
Receiver*1	0.030-199.999*2 400.000-470.000*2							
	1.810-1.9		3.500-			000-7.20	00	10.100-10.150
Tuo no no ideal	14.000–14.							
Transmit*1	28.000-29	.700 5	0.000-	52.00	00 70.0	000-70.	500	144.000-146.000
	430.000-440	0.000						
	*1 Sh	owing						ording to version
								not guaranteed
Mode	USB, LSB,							
No of memory channels								peater channels
Antenna connector			ach for F	1F/50	//UMH	iz and 14	14/4	30MHz, 50Ω)
Operating Temp. range Frequency stability	-10°C to +6 ±0.5ppm (0		Enoc 6	0 420	_\L__\			
Power supply requirement	13.8V DC ±1		-30 0 6	430	/IVITIZ)			
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	кg		Cor	ntroller		0.5 kg
	TI	RANS	MITTE	R				
Output power (at 13.8V DC)								
	HF/50MHz	701	ИHz	144	MHz	430	МНъ	
SSB/CW/RTTY/FM/DV	2-100W	_	50W		50W		5W	_
AM	1-30W	_	5W		_		-	
Modulation system		1	- 1	lation		Digital I	n	ower medulation
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	/4301	MHz)			
Carrier suppression	More than 5							
Unwanted sideband	More than 5	i0dB						
		REC	EIVER					
Intermediate frequencies								
SSB/CW/AM/FM/RTTY/DV	124.487MH			kHz				
WFM	134.732MH							
Sensitivity								MHz: Preamp ON
		0 00 0	95MHz 50MHz		70MHz			
	0.5-1.8MHz 1	.0-29.				/UIVITI	2	144/430MHz
SSB/CW (BW=2.4kHz, 10dB S/N)	0.5–1.8MHz 1		5μV		2μV	0.15µ		0.11µV
AM (BW=6kHz, 10dB S/N)	– 13μV	0.1	5μV μV	0.1: 1	2μV μV		V	
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD)	– 13μV 0.5μV (28	0.1 2 -29.7	5μV μV MHz)	0.1 1 0.2	2μV μV 5μV	0.15μ 1μV 0.25μ	V V	0.11μV 1μV 0.18μV
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER)	– 13μV	0.1 2 -29.7	5μV μV MHz)	0.1 1 0.2	2μV μV	0.15µ' 1µV 0.25µ 0.63µ	V V V	0.11μV 1μV 0.18μV 0.35μV
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD)	– 13μV 0.5μV (28	0.1 2 -29.7	5μV μV MHz)	0.1 1 0.2	2μV μV 5μV	0.15µ' 1µV 0.25µ 0.63µ	V V V	0.11μV 1μV 0.18μV
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER)	- 13μV 0.5μV (28 1μV (28-2	0.1 2 -29.7I 29.7MI	5μV μV MHz) Hz)	0.1; 1; 0.2 0.6	2μV μV 5μV 3μV	0.15µ' 1µV 0.25µ 0.63µ 10µV	V V V (76-	0.11µV 1µV 0.18µV 0.35µV -108MHz)
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD)	- 13μV 0.5μV (28 1μV (28-2	0.1 2 29.7 29.7 1 -	5μV μV MHz) Hz) 50/70MH	0.1: 1µ 0.2: 0.6: -	2μV uV 5μV 3μV eamp-2	0.15µ' 1µV 0.25µ 0.63µ 10µV	V V V (76-	0.11µV 1µV 0.18µV 0.35µV -108MHz)
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions	- 13µV 0.5µV (28- 1µV (28- - (HF: Preamp-	0.1 29.7 29.7 29.7 1 ON, 9	5μV μV MHz) Hz) 50/70MH	0.12 1µ 0.2 0.6 - Hz: Pre	2μV μV 5μV 3μV eamp-2 50/70	0.15µ' 1µV 0.25µ 0.63µ 10µV	V V (76- /430	0.11μV 1μV 0.18μV 0.35μV -108MHz) MHz: Preamp ON
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD)	- 13µV 0.5µV (28-2 1µV (28-2 - (HF: Preamp- 1.8-2.999 MI 10 dBµV en 16 dBµV en	0.1 2 3–29.7 129.7 10N, 5 1 ON, 5 1 Onf 0	5μV μV MHz) Hz) 50/70MH 1–29.995 dBμV ε dBμV ε	0.12 0.2 0.6 - Hz: Pre MHz emf	2μV 1V 5μV 3μV eamp-2 50/70 -6 dB 0 dBμ	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz)	- 13μV 0.5μV (28 1μV (28-2 - (HF: Preamp- 1.8-2.999 MI 10 dBμV en	0.1 2 3–29.7 129.7 10N, 5 1 ON, 5 1 Onf 0	5μV μV MHz) Hz) 50/70MH 1–29.995 dBμV ε dBμV ε	0.12 0.2 0.6 - Hz: Pre MHz emf	2μV 1V 5μV 3μV eamp-2 50/70 -6 dB 0 dBμ	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.)	- 13µV 0.5µV (28-2 1µV (28-2 - (HF: Preamp- 1.8-2.999 MI 10 dBµV en 16 dBµV en	0.1 2 3–29.7 129.7 10N, 5 1 ON, 5 1 Onf 0	5μV μV MHz) Hz) 50/70MH 1–29.995 dBμV ε dBμV ε	0.12 0.2 0.6 - Hz: Pre MHz emf	2μV 1V 5μV 3μV eamp-2 50/70 -6 dB 0 dBμ	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.)	- 13µV 0.5µV (28-2 1µV (28-2 - (HF: Preamp- 1.8-2.999 MI 10 dBµV en 16 dBµV en	0.1. 2 3-29.7MH 	5µV µV MHz) Hz) 50/70MH 1−29.995 dBµV € dBµV € 8−29.7N	0.12 0.2 0.6 - Hz: Pre MHz emf	2μV μV 5μV 3μV eamp-2 50/70 -6 dB 0 dBμ -6 dB	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.)	- 13μV 0.5μV (28 1μV (28-2 - (HF: Preamp- 1.8-2.999 MI 10 dBμV en 0 dBμV en	0.1 2 3-29.7MP 	5µV µV MHz) Hz) 50/70MH 1−29.995 dBµV € dBµV € 8−29.7N	0.12 0.6 - Hz: Pre MHz emf emf MHz)	2μV ΔV 5μV 3μV eamp-2 50/70 –6 dB 0 dBμ –6 dB	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.) Selectivity	- 13μV 0.5μV (28 1μV (28-2 - (HF: Preamp- 1.8-2.999 Mi 10 dBμV en 0 dBμV en More tha	0.1 2 3-29.7MP 	5µV µV MHz) Hz) 50/70MH 1-29.995 dBµV e dBµV e B-29.7N	0.12 1) 0.2 0.6 - Hz: Pre MHz emf emf MHz)	2µV JV 5µV 3µV eamp-2 50/70 -6 dB 0 dBµ -6 dB	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.) Selectivity SSB (BW=2.4kHz, sharp)	- 13µV 0.5µV (28 1- (HF: Preamp- 1.8-2.999 Mi 10 dBµV en 0 dBµV en 0 dBµV e	0.1 29.7MH 29.7MH 	5μV μV MHz) Hz) 1-29.995 dBμV ε dBμV ε 3-29.7N Les 3.4kH	0.12 0.2 0.6 	2µV 1V 5µV 3µV eamp-2 50/70 -6 dB 0 dBµ -6 dB un 0dB 0dB	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp)	- 13µV 0.5µV (28 1µV (28-2) - (HF: Preamp- 1.8-2.999 Mi 10 dBµV en 0 dBµV en 0 dBµV e More the 2.4kHz/-6	0.1 29.7MH 29.7MH 	5μV μV MHz) Hz) 1-29.995 dBμV ε 8-29.7N Les 3.4kH 700H	0.1; 1, 0.2 0.6: - Hz: Pre MHz emf emf MHz) ss tha Iz/-4: z/-40	2µV 1V 5µV 3µV eamp-2 50/70 -6 dB 0 dB ₁ -6 dB un 0dB 0dB 0dB	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp) RTTY (BW=500Hz)		0.1. 2 3-29.7MH 29.7MH	5µV µV MHz) 1-29.995 dBµV e dBµV e 8-29.7N Les 3.4kl- 700H	0.1:1 1,1 0.2 0.6 - MHz Pref emf (MHz) 1z/-4 1z/-4	2µV 1V 5µV 3µV eamp-2 50/70 -6 dB 0 dB ₁ -6 dB 0dB 0dB 0dB 0dB	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz)		0.1. 2 3-29.7MH 29.7MH	5µV µV MHz) 50/70MH 1-29.995 dBµV € 8-29.7M Les 3.4kH 700H 800H	0.1:1 1,1 0.2 0.6 - MHz Pref emf (MHz) 1z/-4 1z/-4	2µV 1V 5µV 3µV eamp-2 50/70 -6 dB 0 dB ₁ -6 dB 0dB 0dB 0dB 0dB	0.15µ 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf uV emf	V V (76- /430 144 -6	0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz) FM (BW=15kHz) DV (12.5kHz spacing)		0.1 2 4–29.7H 29.7MH 	5µV µV MHz) Hz) 50/70MH 1–29.995 dBµV € 8–29.7M Les 3.4kH 700H 800H 10kH 22kH	0.1: 1 0.2 0.6: 	2µV µV 5µV 3µV eamp-2 50/70 -6 dB 0 dB _µ -6 dB 0dB 0dB 0dB 0dB 0dB 0dB	0.15µ' 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz µV emf µV emf	V V V (76- /430 1444 -6 0 (0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf dBµV emf dBµV emf
AM (BW=6kHz, 10dB S/N) FM (BW=15kHz, 12dB SINAD) DV (1% BER) WFM (12dB SINAD) Sensitivity for RED versions (12 dB SINAD) SSB (BW=2.4kHz) AM (BW=4kHz, 60% Mod.) FM (BW=7kHz, 60% Mod.) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz) FM (BW=15kHz)		0.1.1 ON, 4 3.0.0 OB	5µV µV MHz) 	0.1: 1	2µV uV 5µV 3µV eamp-2 50/70 -6 dB 0 dB ₁ -6 dB 0dB 0dB 0dB 0dB 0dB	0.15µ' 1µV 0.25µ 0.63µ 10µV ON, 144 0 MHz 1V emf 1V emf	V V V (76- /430 1444 -6 0 (0.11µV 1µV 0.18µV 0.35µV -108MHz) MHz: Preamp ON /430 MHz dBµV emf dBµV emf dBµV emf

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
- DC power cable
- CW keyer plug
- Spare fuses

Count on us!

- Separation cable, OPC-2253
- 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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