

Multi-band, All Mode Operation at Your Fingertips!



Intuitive Touch Screen Interface

**Easy-to-See, Easy-to-Use
Slant Top Controller**

Built-in Speaker on the Controller

HF, 6m, 2m & 70cm Multi-band, All Mode

D-STAR DV Mode Operation

**Built-in SD Card Slot
for Voice & Log Storage**

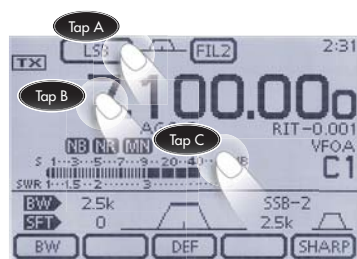
IF DSP Controlled Digital Features

Optional Mounting Base, MBF-1



Intuitive Touch Screen Interface

An amateur radio first! The touch screen interface provides innovative quick and smooth operation for setting various functions and editing memories.



Just tap the point you need to change.



Tap A Operating Mode Selection

Tap B Direct Frequency Entry



Tap C Showing Multi-Function Meter

Ten-Key Keyboard Entry

(Hold)

* Showing Japan version screen shots.

Slant Top Controller

The slant top controller display faces the operator and is designed to increase visibility of the display. The built-in high-efficiency oval speaker provides easy to hear audio.

An external speaker and electronic keyer can be connected to the controller.



Controller Rear Panel view



MBF-1



Optional Suction Cup Mounting Base, MBF-1

The optional MBF-1 is a suction cup mounting base for easy installation in your vehicle.

MBA-1 Mobile Mounting Bracket is also required.

D-STAR DV Mode Operation

The IC-7100 provides D-STAR DV mode digital voice and low speed data communication. Linking of D-STAR repeaters over the Internet allows you to communicate long distance with digital modulated clear intelligible audio.

D-STAR: Digital Smart Technology for Amateur Radio

IF DSP Features

The latest 32-bit floating point DSP supports many digital processing features such as digital IF filter, twin PBT, manual notch filters. Of course, those high-grade digital processing features work on all ham bands, from HF to the 70cm band.



32-bit Floating Point DSP

Other Features

- Built-in SD Card Slot for voice storage and data cloning
- Dual DSP chips deliver versatile digital processing performance
- Built-in RTTY demodulator and decoder
- Multi-function meter
- SWR graphic display
- DSP controller RF speech compressor
- Total of 505 memory channels
- Voice recording and playback functions
- 70–70.5MHz coverage, 50W output power (for Europe versions only, varies according to version.)
- ± 0.5ppm high frequency stability
- Optional RS-BA1 IP control remote control software

Supplied accessories:

- Hand microphone
- DC power cable
- Electronic keyer plug
- Spare fuses
- Key plug
- ACC cable
- Separation cable

SPECIFICATIONS

GENERAL			
Frequency coverage*1	(Unit: MHz)		
Receiver	0.030–199.999*2	400.000–470.000*2	
Transmit	1.800–1.999	3.500–3.999	5.255–5.405*2
	7.000–7.300	10.100–10.150	14.000–14.350
	18.068–18.168	21.000–21.450	24.890–24.990
	28.000–29.700	50.000–54.000	144.000–148.000
	430.000–450.000		

*1 Showing USA version. Varies according to version.

*2 Some frequency bands are not guaranteed.

Mode	USB, LSB, CW, RTTY, AM, FM, WFM (Rx only)	
Number of memory channels	505 (495 regular, 4 call, 6 scan edges)	
Antenna connector	SO-239×2 (one each for HF/50MHz and VHF/UHF bands, 50Ω)	
Operating Temp. range	-10°C to +60°C; +14°F to +140°F	
Frequency stability	Within ±0.5ppm (+0°C to +50°C)	
Power supply requirement	13.8V DC ±15%	
Current drain (at 13.8V DC)		
Tx Max. power	22A	
Rx Max. audio/Standby	1.5A/1.2A	
Dimensions (W×H×D, projections not included)	RF unit	167×58×225 mm
	Controller	165×64×78.5 mm
Weight (approx.)	RF unit	2.3 kg
	Controller	0.5 kg

TRANSMITTER			
Output power (at 13.8V DC)			
	HF/50MHz	144MHz	430/440MHz
SSB/CW/RTTY/FM/DV	2–100W	2–50W	1–35W
AM	1–40W	–	–

Spurious emissions	Less than -50dB (HF bands) Less than -63dB (50MHz) Less than -60dB (144/430MHz)
Carrier suppression	More than 50dB
Unwanted sideband suppression	More than 50dB

RECEIVER	
Intermediate frequencies	SSB/CW/AM/FM 124.487MHz, 455kHz, 36kHz WFM 134.732MHz, 10.700MHz
Sensitivity	

	0.5–1.8MHz	1.8–29.9MHz	50–54MHz	144/430MHz
SSB/CW/RTTY	–	0.16µV	0.13µV	0.11µV
AM	13µV	2µV	1µV	1µV
FM	0.5µV (28–29.7MHz)	0.25µV	0.18µV	–
DV	1µV (28–29.7MHz)	0.63µV	0.35µV	–
WFM	–	–	10µV (76–108MHz)	–

Selectivity		
	More than	Less than
SSB (BW=2.4kHz, sharp)	2.4kHz/–6dB	3.6kHz/–60dB
CW (BW=500Hz, sharp)	500Hz/–6dB	900Hz/–60dB
RTTY (BW=350Hz)	360Hz/–6dB	650Hz/–60dB
AM (BW=6kHz)	6.0kHz/–6dB	15kHz/–60dB
FM (BW=15kHz)	12kHz/–6dB	20kHz/–60dB
DV (12.5kHz spacing)	–50dB	

Spurious and image rejection ratio	More than 70dB (HF bands) More than 65dB (50/144/430MHz) (except 144MHz IF point)
Audio output power (at 13.8V DC)	More than 2.0W (10% distortion, 8Ω load)



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