Intuitive Touch Screen, Quick Response, Multi-band Radio

HF/50/70/144/430MHz
Finger Touch Operation with Innovative Design
Intuitive Touch Screen, Quick Response, Multi-band Radio

Finger Touch Operation

- **Intuitive Touch Screen Interface**
  The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.

- **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.

- **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.

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 amateur 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.

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 straightforward, 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.

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.

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 • +95 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* • 12kHz IF output for DRM (Digital Radio Mondiale) receive

* D-STAR DV mode only
IC-7100

HF/VHF/UHF ALL MODE TRANSCEIVER

SPECIFICATIONS

HF/VHF/UHF ALL MODE TRANSCEIVER

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

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WFM 134.732MHz, 10.700MHz
Intermediate frequencies

Audio output power More than 2.0W (10% distortion, 8Ω)
Selectivity

Carrier suppression More than 50dB
Less than –60dB (70/144/430MHz)

FM: Digital phase modulation, DV: GMSK digital phase modulation

Output power (at 13.8V DC)
Dimensions (W×H×D, mm)
Current drain (at 13.8V DC)
Power supply requirement
Frequency coverage (Unit: MHz)
Frequency stability
Operating Temp. range
No of memory channels
Mode

Receiver*1

0.030–199.999MHz
400.000–470.000MHz

1.810–1.999 3.500–3.800 7.000–7.100 10.100–10.150
28.000–29.700 50.000–50.200 70.000–70.500 144.000–144.000
430.000–440.000

**Showing EUR/US version. Varies according to version.
**Some frequency bands are not guaranteed.

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 connector SO-239×2 one each for HF/50/70MHz and 144/430/50MHz, 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%

Antenna receiver

For use with AH-170

SM-50 Dynamic mic
OPC-589 is required.

SM-30 8-pin cable adapter
OPC-589 is required.

MOUNTING BRACKETS

MB-62 Mounting bracket for the main unit.
MBF-1 Mounting base for the controller.
MBA-1 Controller bracket

OPC-589 MODULAR 8-PIN CABLE ADAPTER

Some options may not be available in some countries. Please ask your dealer for details.

OPTIONS

PS-126
DC POWER SUPPLY

13.8V DC, 25A max.

AH-4 HF–50MHz AUTO-
MATIC ANTENNA TUNER

AH-4H HF–50MHz AUTO-
MATIC ANTENNA TUNER

AH-2b ANTENNA ELEMENT

AH-FV HF–50MHz AUTOMATIC ANTENNA TUNER

AT-180 HF–50MHz AUTOMATIC ANTENNA TUNER

AH-SNV NIS Kit

AH-760 AUTOMATIC TUNING UNIT

SP-35 EXTERNAL SPEAKER

HAND MICROPHONES

SM-50 Dynamic mic
SM-30 OPC-589 is required.

SM-50 OPC-589 is required.

Desktop microphones

IC-PW1EURO HF–50MHz 1kHz
HF LINEAR AMPLIFIER

MOUNTING BRACKETS

MB-62 Mounting bracket for the main unit.
MBF-1 Mounting base for the controller.
MBA-1 Controller bracket

OPC-599 CABLE ADAPTER
Converts 13-pin ACC connector to 7-pin + 8-pin ACC connector for connection with IC-PW1EURO

OPC-1529R DATA CABLE for DV mode
Data 1 Jack (IC-7100) to RS-232C cable.

OPC-2216U DATA CABLE for DV mode
Data 1 Jack (IC-7100) to USB cable.

Supplied accessories: * May differ depending on version!

- CW keyer plug
- Spare fuses
- USB cable
- Ferrite bead

Printed in Japan

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

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