IC-7610

SPECIFICATIONS

GENERAL						
	Receiver*1	0.030-60.00	MHz*3			
Frequency coverage	Transmitter*1	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 MHz				
*1 USA version. \ *3 Guaranteed ra	Varies according tange: 0.500-29.99	o version. *2 So 9, 50.000-54.0	me frequency 00 MHz.	bands are not g	juaranteed.	
Mode		USB, LSB, C		SK. AM. FM		
Number of channels		101 (99 regular, 2 scan edges)				
Antenna connectors		SO-239 \times 2 (50 Ω unbalanced (Tuner off))				
		BNC × 1 (RX antenna In/Out)				
Power supply requirement		13.8 V DC ±15%				
Power	Tx	23 A (at 100 W output power)				
Consumption		3.0 A typical (Standby), 3.5 A (Maximum audio)				
	perature range	0 °C to +50 °C			100%5	
Frequency sta		Less than ±0.5 ppm (0°C to +50°C; 32°F to 122°F)				
Pimensions (W x H x D)		1 Hz (fine) 340 × 118 × 277 mm;				
Dimensions (W \times H \times D) (projections not included)		13.4 × 4.6 × 10.9 in				
Weight (approximately)		10 kg; 22 lb				
TRANSMITTE		. 5 Ng, 22 10				
THANGWITTE		SSB/CW/FM	/DTTV/DCV	1 100 W		
Output power (HF/50 MHz)		SSB/CW/FM/RTTY/PSK: 1–100 W, AM: 1–25 W				
	SSB	Digital P.S.N. modulation				
Modulation	AM	Digital Low power modulation				
system	FM	Digital Reactance modulation				
Spurious	HF bands	Less than –50 dB				
emissions	50 MHz band					
Carrier suppression		More than 50 dB				
Unwanted sideband		More than 50 dB				
Microphone im	pedance	600 Ω				
RECEIVER						
Receiver syste	m	Direct Sampl	ing Superhe	terodyne		
Intermediate fr	requency	12 kHz				
Sensitivity*4		0.1- 1.799 MHz	1.8-29.999 MHz	28.0-29.7 MHz	50 - 54 MH	
SSB/CW (at		_	0.15 μV	_	0.12 μV	
AM (at 10 dB		6.3 µV	2.0 µV	_	1.0 µV	
FM (at 12 dB SINAD)		_		0.5 µV	0.3 μV	
HF: Preamp 1	ON, 50 MHz: Prea				M=15 kHz	
Squelch sensit	tivity (Threshold)	SSB: Less than 3.2 µV (Preamp ON) FM: Less than 0.3 µV (Preamp ON)				
Salactivity (She	arn filter chance		than		than	
	arp filter shape)			Less		
SSB (BW: 2.4 KHz) CW (BW: 500 Hz)		2.4 kHz/-6 dB 500 Hz/-6 dB		3.4 kHz/–40 dB 700 Hz/–40 dB		
	RTTY (BW: 500 Hz)		500 Hz/-6 dB 700 Hz/-40 dB 800 Hz/-40 dB			
AM (BW: 6 kHz)		6.0 kHz/–6 dB 10 kHz/–40 dB				
FM (BW: 15 kHz)		12.0 kHz/–6 dB 22 kHz/–40 dB				
Spurious and		More than 70				
		More than 70 dB (Except for ADC Aliasing)				
Audio output p		More than 2.0			8 Ω load)	
TUNER						
Frequency ran	ge	1.9-50 MHz I	bands			
Matching impedance range			16.7 Ω -150 Ω unbalanced (VSWR better than 1: 3)			
Tuning accuracy			VSWR 1: 1.5 or less			
Tuning time		2-3 seconds		Maximum 15 s	econds)	

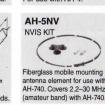
All stated specifications are subject to change without notice or obligation.

Supplied accessories: (May differ depending on version) • Hand microphone, HM-219 • DC power cable • Fuses • Plugs

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









AH-740

AUTOMATIC

TUNING ANTENNA

EXTERNAL SPEAKERS



headphone jack







Compact, lightweight with [UP/DOWN] switches

RS-BA1 IP REMOTE CONTROL SOFTWARE

• OPC-420: CONTROL CABLE for use with





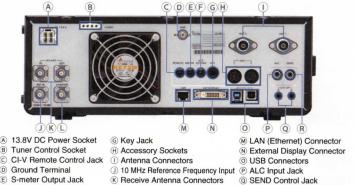


- OPC-2321: CONTROL CABLE for use with AH-740 (6 m)
- SP-35L: EXTERNAL SPEAKER Compact mobile speaker with 6 m; 19.7 ft cable

Rear panel view

F External Keypad Jack

• MB-121: CARRYING HANDLE



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Transverter Connector

External Speaker Jacks

Count on us!

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Glenwood Centre #150-6165 Highway 17A, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266
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PRE-RELEASE INFORMATION

HF/50 MHz TRANSCEIVER

IC-7610

"Dual" HF Excitement **RF Direct Sampling Evolution**



New and Powerful Dual Receive Rig RF Direct Sampling Taking You to the Next Level



Actual size

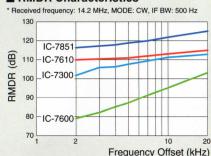
Innovative RF Direct Sampling System Achieves to 110 dB* (typical) of RMDR

The RF direct sampling system directly converts the analog signals to digital signals, and collectively puts the data through FPGA (Field Programmable Gate Array) processing. The master clock uses a high precision oscillator which excels in low-noise characteristics.

This makes it possible to provide superior receive and transmit performance, extremely low phase noise as well as high RMDR (Reciprocal Mixing Dynamic Range).

* At 2 kHz frequency separation.

■ RMDR Characteristics



Independent Dual Receiver Receives Two Bands Simultaneously

The sub receiver works independently of the main receiver. The dual receiver is perfect to simultaneously monitor two bands and two modes. Independent AF/RF knobs for the main and sub bands improve usability.

DIGI-SEL Preselector Firmly Shuts Out Interference Signals

Both main and sub receivers are equipped with DIGI-SEL (digital preselector) units. The DIGI-SEL has steeper skirt characteristics than normal bandpass filters, so it rejects out of band strong interference such as broadcast stations, and prevents cross modulation.



High-speed, High-resolution Real-time Spectrum Scope

The real-time spectrum scope of the IC-7610 shows main and sub band conditions. It provides class-leading performance in resolution, sweep speed and a 100 dB of dynamic range. The waterfall screen allows you to find weak signals by showing spectrum change over time. The audio scope function shows the FFT scope and oscilloscope.

	IC-7610	· IC-7600	
Span width	5 kHz-1000 kHz	5 kHz-500 kHz	
Resolution	1 pixel minimum*	20 pixel minimum*	
Sweep Speed	Max. 30 frames/second (approximate)	Max. 4 frames/second (approximate)	
Display Dynamic Range	100 dB	80 dB	
Dual Receiver	Yes	No (Single)	

^{*} Number of pixels shown at the 60 dB level, when receiving a signal.

7-inch Color Display with Touch Screen Function

The large 7-inch color display shows various operating and setting information at a glance in high resolution (800 \times 480 pixels). The combination of the touch screen and the Multi-function control knob offers smooth, intuitive and speedy operation.

Other Features

- · Built-in high-speed automatic antenna tuner
- Newly designed large speaker housing offers superior sound quality, making use of the high-purity received signal
- SD card for saving various setting information and recording communications*
 * An SD card is required separately.
- Digital IF filter and digital twin PBT for interference rejection
- IP remote control capability with the optional RS-BA1
- External monitor connection with a DVI-D port