



VHF/UHF ALL MODE TRANSCEIVER

# IC-910H



## *The New Dimension in the VHF/UHF World!*

### **100W of stable output power**

A powerful 100W\* of output power is provided by the newly designed power amplifier circuit, which employs bipolar transistors in parallel. The combination of the aluminum die-cast chassis and effective cooling fan ensures stable output for continuous operation.

\* 75W on 430MHz band and 10W on 1200MHz band

### **High performance receiver**

The IC-910H offers 0.11 $\mu$ V of high sensitivity (at 10db S/N on SSB, CW mode), while the image and spurious responses are minimized for good signal fidelity. Used with the optional preamplifiers for each band, indispensable for obtaining weak signals in DX or satellite communication, you will experience top class receiving characteristics in the VHF/UHF bands.

### **Ready-to-install 1200MHz BAND UNIT**

By installing the optional UX-910 1200MHz BAND UNIT, the IC-910H becomes an all mode tri-band transceiver. You can also enjoy cross band and full duplex operation. Measuring only 241(W) $\times$ 94(H) $\times$ 239(D) mm, and weighting 4.5kg (without UX-910)\*, its compactness and light weight is convenient for field operation.

\*approx; 9 $\frac{1}{2}$ (W) $\times$ 3 $\frac{11}{16}$ (H) $\times$ 9 $\frac{13}{32}$ (D) in.; 9 $\frac{29}{32}$ lb

### **9600bps packet operation**

The IC-910H has two data sockets for simultaneous two band packet communications. Setting of the packet communication can be made easily in the set mode.

### **Satellite communication**

In the satellite mode, the down/up link frequencies are displayed on the MAIN and SUB band respectively. Reverse/normal tracking and doppler shift compensation are standard, and 10 satellite memory channels store down/up link frequencies and operating mode.

### **And more**

- All receiver functions, including IF shift, sweep, noise blanker, RF attenuator, also work in the SUB band
- The sweep function observes conditions around the set frequency
- 4 types of scanning are activated on each band independently
- The memory pad stores the operating frequencies and modes temporarily
- Electronic keyer with a dot/dash ratio control is built-in
- FM-narrow mode receivable (except 1200MHz band)
- 50 CTCSS tone encoder/decoder and one touch repeater function
- Optional UT-106 DSP UNIT available
- CI-V capability for PC control

**Icom Inc.**

## SPECIFICATIONS

### GENERAL

• Frequency coverage : (Unit: MHz)

Version	144MHz band	430MHz band	1200MHz band**
Europe	144.0-146.0	430.0-440.0	1240.0-1300.0
U.S.A.	Tx: 144.0-148.0 Rx: 136.0-174.0*	Tx: 430.0-450.0 Rx: 420.0-480.0*	Tx: 1240.0-1300.0
Australia	144.0-148.0	430.0-440.0	1240.0-1300.0
Sweden	144.0-146.0	432.0-438.0	1240.0-1300.0
Italia	144.0-146.0	430.0-434.0, 435.0-438.0	1240.0-1300.0

\* Guaranteed range: 144.0-148.0MHz; 430-450MHz

- Mode : SSB, CW, FM, FM-N\*\*
- Frequency stability :  $\pm 3\text{ppm}$  ( $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )
- Frequency resolution : SSB, CW 1Hz  
FM 100Hz
- No. of memory channels : 328\*\* (99 regular, 1 call, 6 scan edges for each band plus 10 satellite memories)
- Operating temperature range :  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ ;  $+14^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$
- Power supply requirement : 13.8V DC  $\pm 15\%$  (negative ground)
- Current drain (at 13.8 V DC) :  
 Transmit high 23.0A (8.0A at 1200MHz band\*)  
 low 7.0A (4.5A at 1200MHz band\*)  
 Receive max.audio 2.5A (3.5A at 1200MHz band\*)  
 stand-by 2.0A (3.0A at 1200MHz band\*)
- Dimensions (projections not incl.) : 241(W) $\times$ 94(H) $\times$ 239(D) mm ; 9 $\frac{1}{2}$ (W) $\times$ 3 $\frac{1}{16}$ (H) $\times$ 9 $\frac{13}{32}$ (D) in.
- Weight (approx.) : IC-910H 4.5kg ; 9 $\frac{29}{32}$ lb  
UX-910 0.85kg ; 1 $\frac{7}{16}$ lb
- Antenna connector : VHF SO-239 (50 $\Omega$ )  
UHF Type-N (50 $\Omega$ )

### TRANSMITTER

- Output power : 144MHz band 5.0-100W  
(continuously adjustable) 430MHz band 5.0-75W  
1200MHz band\*\* 1.0-10W
- Modulation system : SSB Balanced modulation  
FM Variable reactance modulation
- Spurious emission : 144, 430MHz band Less than -60dB  
1200MHz band\*\* Less than -50dB
- Carrier suppression : More than 40dB
- Unwanted sideband : More than 40dB
- Microphone connector : 8-pin connector (600 $\Omega$ )

### RECEIVER

- Receiver system : VHF SSB, CW Single conversion superheterodyne  
FM Double conversion superheterodyne  
UHF SSB, CW Double conversion superheterodyne  
FM Triple conversion superheterodyne

• Intermediate frequencies : (Unit: MHz)

	Mode	MAIN band			SUB band		
		1st	2nd	3rd	1st	2nd	3rd
144MHz band	SSB	10.8500	-	-	10.9500	-	-
	CW	10.8491	-	-	10.9491	-	-
	FM	10.8500	0.4550	-	10.9500	0.4550	-
430MHz band	SSB	71.2500	10.8500	-	71.3500	10.9500	-
	CW	71.2491	10.8491	-	71.3491	10.9491	-
	FM	71.2500	10.8500	0.4550	71.3500	10.9500	0.4550
1200MHz band**	SSB	243.8500	10.8500	-	243.9500	10.9500	-
	CW	243.8491	10.8491	-	243.9491	10.9491	-
	FM	243.8500	10.8500	0.4550	243.9500	10.9500	0.4550

- Sensitivity : SSB, CW 0.11 $\mu\text{V}$  (at 10dB S/N)  
FM 0.18 $\mu\text{V}$  (at 12dB SINAD)
- Squelch sensitivity : SSB, CW 1.00 $\mu\text{V}$  (at threshold)  
FM 0.18 $\mu\text{V}$  (at threshold)
- Selectivity :  
 SSB, CW More than 2.3kHz/-6dB Less than 4.2kHz/-60dB  
 FM More than 15.0kHz/-6dB Less than 30kHz/-60dB  
 FM-N\*\* More than 6.0kHz/-6dB Less than 18kHz/-60dB
- Spurious rejection ratio : More than 60dB (Except 1200MHz band\*\*)
- Audio output power (at 13.8V DC) : More than 2.0W at 10% distortion with an 8 $\Omega$  load
- RIT variable range : SSB, CW 1.0kHz (2.0kHz at 1200MHz band\*)  
FM 5.0kHz (10.0kHz at 1200MHz band\*)
- External speaker connector : 2-conductor 3.5mm (1/8") 8 $\Omega$  connector  $\times$  2  
(for MAIN and SUB bands)

\* An optional UX-910 1200MHz BAND UNIT is required for 1200MHz operation.

\*\* FM-N is not available in 1200MHz band.

### Supplied Accessories

- DC power cable
- Spare fuses
- Hand microphone (HM-12)

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

## OPTIONS

### ■ PREAMPLIFIERS

#### • AG-25/AG-35/AG-1200 WEATHERPROOF PRE-AMPLIFIERS

External all-weather, mast-mounting preamplifier for compensating for coaxial cable loss. (Not available for EU countries)  
AG-25: for 144MHz band; AG-35: for 430MHz band; AG-1200: for 1200MHz band.

### ■ INTERNAL UNITS AND FILTERS

#### • FL-132/FL-133 CW NARROW FILTERS

FL-132 is for the main band; FL-133 is for the sub band operation.  
Center freq.: 10.8491MHz (FL-132); 10.9491MHz (FL-133)  
Passband width: 500Hz/-6dB

#### • CR-293 HIGH STABILITY CRYSTAL UNIT

Frequency stability:  $\pm 0.5\text{ppm}$  at  $0^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

#### • UT-102 VOICE SYNTHESIZER UNIT

Provides audible confirmation of frequency and mode with a clear, electronically-generated voice.

#### • UT-106 DSP UNIT

Provides AF DSP functions, such as noise reduction and auto notch. When 2 units are installed, the DSP function works for MAIN/SUB band simultaneously.

#### • UX-910 1200MHz BAND UNIT

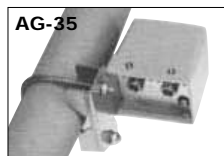
Allows you additional all-mode operation on the 1200MHz band.

### ■ MICROPHONES AND SPEAKER

- HM-12 HAND MICROPHONE
- SM-20 DESKTOP MICROPHONE
- SP-7 EXTERNAL SPEAKER (8 $\Omega$ /5W)

### ■ OTHERS

- CT-17 CI-V LEVEL CONVERTER
- IC-MB5 MOBILE MOUNTING BRACKET
- MB-23 CARRYING HANDLE
- PS-125 DC POWER SUPPLY (13.8V/25A)



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