



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.

### **Optional down converter, AG-2400**

The optional AG-2400 converts a 2.4GHz satellite downlink signal to a 144MHz signal. Coupled with the satellite mode of the IC-910H, the US mode and LS (UX-910 required) mode satellite operation ready for use. Down-to-earth satellite operation in your shack!

### **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 Rx: 1240.0-1320.0*
Australia	144.0-148.0	430.0-450.0	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	1240-1245, 1270-1298

\* Guaranteed range: 144.0-148.0, 430-450, 1240-1300MHz
- Mode : SSB, CW, FM, FM-N\*\*
- Frequency stability : ±3ppm (-10°C to +60°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°C to +60°C ; +14°F to +140°F
- Power supply requirement : 13.8V DC ±15% (negative ground)
- Current drain (at 13.8 V DC) :
 

	Transmit	Receive
high	23.0A (8.0A at 1200MHz band**)	max.audio 2.5A (3.5A at 1200MHz band**)
low	7.0A (4.5A at 1200MHz band**)	stand-by 2.0A (3.0A at 1200MHz band**)
- Dimensions (projections not incl.) : 241(W)×94(H)×239(D) mm ; 9½(W)×3¾(H)×9½(D) in.
- Weight (approx.) : IC-910H 4.5kg ; 9.9lb  
UX-910 0.85kg ; 1.9lb
- Antenna connector : VHF SO-239 (50Ω)  
UHF Type-N (50Ω)

### 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 (600Ω)

### RECEIVER

- 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	-
	FM	71.2491	10.8491	-	71.3491	10.9491	-
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 0.11µV (at 10dB S/N)  
FM 0.18µV (at 12dB SINAD)
- Squelch sensitivity : SSB, CW 1.00µV (at threshold)  
FM 0.18µV (at threshold)
- Selectivity :
 

Mode	More than	Less than
SSB, CW	2.3kHz/-6dB	4.2kHz/-60dB
FM	15.0kHz/-6dB	30kHz/-60dB
FM-N**	6.0kHz/-6dB	18kHz/-60dB
CW-N (With FL-132/FL-133)	0.5kHz/-6dB	1.34kHz/-60dB
- Spurious rejection ratio : 144, 430MHz band More than 60dB  
1200MHz band\*\* More than 50dB
- Audio output power (at 13.8V DC): More than 2.0W at 10% distortion with an 8Ω 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") 8Ω connector × 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
- Hand microphone (HM-12)
- Spare fuses

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

## OPTIONS

### ■ PREAMPLIFIERS AND DOWN CONVERTER

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

### • AG-2400 DOWN CONVERTER

- All-weather, satellite down converter with superior NF and gain.  
Input frequency: 2400-2402MHz, Output frequency: 144-146MHz  
Conversion gain: More than 25dB Total NF: Less than 1.5dB

### ■ 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: ±0.5ppm at 0°C to +60°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

- **HM-12 HAND MICROPHONE**
- **SM-20 DESKTOP MICROPHONE**

### ■ OTHERS

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

AG-2400



CR-293



UT-106



UX-910



SM-20



PS-125



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