ICOM

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 0.11µV 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)×94(H)×239(D) mm, and weighting 4.5kg (without UX-910)*, its compactness and light weight is convenient for field operation.

*approx; 9½(W)×3$^{11}/_{16}$(H)×9$^{13}/_{32}$(D) in.; 9$^{29}/_{32}$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.

AO-40 satellite communication

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.

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SPECIFICATIONS

GENERAL

• Frequency coverage : (Unit: MHz)

Version	144MHz band	430MHz band	1200MHz band*1
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	430.0–440.0	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*2
• Frequency stability : ±3ppm (–10˚C to +60˚C)
• Frequency resolution : SSB, CW 1Hz
FM 100Hz
• No. of memory channels : 328*1 (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 high 23.0A (8.0A at 1200MHz band*1)
low 7.0A (4.5A at 1200MHz band*1)
Receive max.audio 2.5A (3.5A at 1200MHz band*1)
stand-by 2.0A (3.0A at 1200MHz band*1)
• Dimensions (projections not incl.) : 241(W)×94(H)×239(D) mm ; 9½(W)×3$^{11}/_{16}$(H)×9$^{13}/_{32}$(D) in.
• Weight (approx.) : IC-910H 4.5kg ; 9$^{29}/_{32}$lb
UX-910 0.85kg ; 1$^{7}/_{8}$lb
• 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 1.0–10W
• Modulation system : SSB Balanced modulation
FM Variable reactance modulation
• Spurious emission : 144, 430MHz band Less than –60dB
1200MHz band*1 Less than –50dB
• Carrier suppression : More than 40dB
• Unwanted sideband : More than 40dB
• Microphone connector : 8-pin connector (600Ω)

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 1st	MAIN band 2nd	MAIN band 3rd	SUB band 1st	SUB band 2nd	SUB band 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*1	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 :
SSB, CW More than 2.3kHz/–6dB Less than 4.2kHz/–60dB
FM More than 15.0kHz/–6dB Less than 30kHz/–60dB
FM-N*2 More than 6.0kHz/–6dB Less than 18kHz/–60dB
• Spurious rejection ratio : More than 60dB (Except 1200MHz band*1)
• 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*1)
FM 5.0kHz (10.0kHz at 1200MHz band*1)
• External speaker connector : 2-conductor 3.5mm (1/8") 8Ω connector × 2
(for MAIN and SUB bands)

*1 An optional UX-910 1200MHz BAND UNIT is required for 1200MHz operation.
*2 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 AND DOWN CONVERTER

• **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: 144MHz band; AG-35: 430MHz band; AG-1200: 1200MHz 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 AND SPEAKER

• **HM-12** HAND MICROPHONE
• **SM-20** DESKTOP MICROPHONE
• **SP-7** EXTERNAL SPEAKER (8Ω/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)

AG-2400



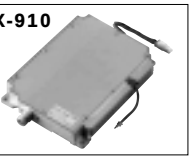
CR-293



UT-106



UX-910



SM-20



PS-125



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