

HF ALL BAND TRANSCEIVER







Front mounted loud speaker

The IC-718 has a speaker mounted on the front panel. With the speaker facing the operator, audio sounds can be clearly heard without impediment during operation. It is no longer necessary to manually increase the volume to try and capture audio sounds.

Superior basic performance

The IC-718 has 0.03-29.999999 MHz* general coverage receive capability. A 4-element system is employed for the 1st receive mixer, providing superior receive IMD, especially from in-band near-by interfering signals. A well-designed double-conversion system to help minimize image and spurious responses for better signal fidelity, is also built-in. A newly designed PLL circuit has been adopted to improve C/N ratio characteristics. The combination of the 4-element system mixer and new PLL circuit allows superior basic performance as that of a commercial grade transceiver.

*Guaranteed range: 0.5–29.999999 MHz

Optional DSP capability

With the optional UT-106* installed you gain AF DSP capabilities. The DSP includes

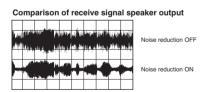
the following to give you superior receive quality in your shack. * Already installed with some versions.



Noise reduction:

Pulls desired AF signals from noise. Outstanding S/N ratio is achieved, providing clean audio in SSB and AM.

Automatic Notch filter:



This automatically minimizes beat signals and heterodynes while preserving the receive signal. Also, the notch frequency is automatically adjusted to follow interfering beat signals- for example, reducing interference from RTTY signals during SSB operation.

Interference rejection – IF shift

To reject interference, the IC-718 has an IF shift function which shifts the center frequency of the IF passband electronically to reduce adjacent interference.

Microphone compressor

The IC-718 has a low distrotion microphone compressor. This feature compresses microphone audio input to increase average audio output level. The result is, that talk power is increased. This function is effective for long distance communication, or when propagation conditions are poor.

RF qain control

RF gain control is combined with the squelch control. The RF gain adjusts minimum response receiver gain, and ignores signals weaker than the pre-set levelproviding pleasant stand-by, or scanning.

Ample CW features

An electronic keyer with a variable dot/ dash ratio (2.8:1 to 4.5:1) control is built-in. By simply connecting a paddle, easy CW operation can be made. The CW pitch and the key speed are also variable from 300-900 Hz, 6-60 wpm, respectively. Of course, full break-in capability is available with the adjustable break-in delay.

VOX operation

A VOX (voice operated transmission) is included with the IC-718. It provides handsfree operation by detecting audio signals from the microphone. It's easy!

THE ORIGIN OF THE HF TRANSCEIVER

The HF bands allow you to communicate over long distances covering many km even to the other side of the world. With the superior performance found in the IC-718 such as wide dynamic range, high C/N ratio, and full duty operation you will find making these contacts easy. Experience the combination of the latest RF and digital technology, along with the size and simplified operation. You will see the IC-718 will be the most practical rig you will ever own.

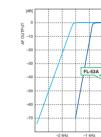
HF TRANSCEIVER

1C - 718



Flexible filter selection

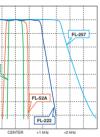
erence.



ITY CRYSTAL UNIT is installed, you get a very high frequency stability of ±0.5 ppm.



An optional IF filter can be installed into the transceiver to suit your operating pref-



High frequency stability

When the optional CR-338 HIGH STABIL-



Selectable antenna tuner

Either the AT-180 or AH-4 optional antenna tuner can be used with the IC-718 to suit your installing conditions, or operating style. Of course, the AH-4 control circuit is built into the IC-718.

Simple operation

The IC-718 is equipped with a minimum number of switches and controls for superior feature selectability. The 10-key pad on the front panel to directly enter an operating frequency, or a memory channel number. The auto tuning steps function helps quick tuning activates when turning the dial quickly. And the band stacking register is very convenient when changing operating bands.

Digital S/RF meter

Built-in multi functional digital S/RF meter indicates signal strength level while receiving, and either transmit output power, ALC level or VSWR ratio while transmitting.

Optional voice synthesizer

A clear, electronically-generated voice announces operating frequency, mode and receiving signal strength level when the optional voice synthesizer unit, UT-102, is installed.

Other features

- USB, LSB, CW, RTTY (FSK) and AM modes are built-in
- · Level adjustable noise blanker
- RF attenuator and Pre-amplifier
- Variety of scanning function types
- Total 101 memory channels are available
- · Hand microphone is supplied, and more..



IC-718

SPECIFICATIONS

GENERAL			
 Frequency range 	:		
Rx 0.030–29.999			
	999 MHz*2 3.500	 – 3.999999 MHz* 	
7.000- 7.300	000 MHz 10.100-	– 10.150000 MHz	
14.000-14.350	000 MHz 18.068-	-18.168000 MHz	
21.000-21.450	000 MHz 24.890-	-24.990000 MHz	
28.000-29.700	000 MHz		
*1Guaranteed range: 0.5-29.9	99999 MHz *2varies	according to version	
Mode	: USB, LSB, CW	, RTTY (FSK), AN	
No. of memory channel	: 101 (99 regular,	2 scan edges)	
 Frequency resolution 	: 1 Hz	0 /	
Frequency stability	: Less than ±200) Hz from 1 min. to	
	60 min, after po	ower ON. After that	
		less than ±30 Hz	
		77°F). Temperature	
		to +50°C (+32°F to	
	+122°F) less tha		
 Power supply requirement 			
Current drain (at 13.8 V D		,- (
Receive	Stand-by	1.3 A	
	max. audio	2.0 A	
Transmit	max. power	20.0 A	
Operatable temp. range		; +14°F to +140°F	
Antenna connector	: SO-239 (50 Ω)	.,	

9.45(W)×3.74(H)×9.41(D) in (projections not included) · Weight (approx.) : 3.8 kg; 8.38 lb ACC connector : 13-pin : 2-conductor 3.5 (d) mm (1/8") REMOTE connector TRANSMITTER Modulation system SSB Balanced modulation AM I ow level modulation 0

Dimensions

 Output power 	:
SSB, CW, RTTY	2–100 W
AM	2–35 W
 Spurious emissions 	: Less than -50 dB below peak
	output power
*spurious freq.; below 30 M	Hz: -50 dB, above 30 MHz: -60 dB
 Carrier suppression 	: More than 40 dB
 Unwanted sideband 	: More than 50 dB
 Microphone connector 	: 8-pin connector (600 Ω)
 KEY connector 	: 3-conductor 6.5 (d) mm (1/4")
 SEND connector 	: Phono (RCA)
 ALC connector 	: Phono (RCA)

: 240(W)×95(H)×239(D) mm

Supplied accessories:

• Hand microphone • DC power cable Snare fuses

notice or obligations

OPTIONS



SP-23 EXTERNAL SPEAKER

4 audio filters, front mounted

(Not available for EU countries)

headphone iack

IC-PW1/IC-PW1EURO HF+50 MHz 1 kW HF LINEAR AMPLIFIER

SP-21 EXTERNAL SPEAKER

Input impedance: 8Ω Max. input power: 5W (Not available for EU countries)

UT-106 DSP UNIT

versions

Provides AF DSP functions, such

as noise reduction and auto

notch. Already installed with some

Covers all HF and 50 MHz bands, provides clean, stable 1 kW output. Automatic antenna tuner and compact detachable controller are standard. 2 exciter inputs are available. (An optional OPC-599 is required.)



For mobile operation with the AH-4. All bands between 7-30 MHz can be matched



MICROPHONE Dynamic microphone. Includes [UP]/[DOWN] switches and low cut function



455 kHz FILTERS FL-52A CW/RTTY narrow; 500Hz/-6 dB FL-53A CW narrow; 250Hz/-6 dB FL-222 SSB narrow: 1.8kHz/-6 dB FL-257 SSB wide; 3.3 kHz/-6 dB



AH-4 HF+50 MHz AUTOMATIC ANTENNA TUNER Covers 3.5-30 MHz with a 7 m (23 ft) or longer wire antenna



SM-30 DESKTOP MICROPHONE Compact, lightweight electret microphone



AH-710 FOLDED DIPOLE ANTENNA Covers from 1.9 to 30 MHz band. Has a PL-259 connector. Easy to assemble (non-kink construction)

www.icom.co.jp/world

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	RECEIVER
• Receiver system • Sensitivity (10 dB S/N) SSB, CW, RTTY AM	: Double-conversion superheterodyne : 0.16μV (1.8–29.999999 MHz) 13 μV (0.5–1.799999 MHz) 2 μV (1.8–29.999999 MHz)
 SQL sensitivity Selectivity 	: Less than 5.6 µV (SSB)
SSB, CW, RTTY	More than 2.1 kHz/-6 dB Less than 4.5 kHz/-60 dB
AM	More than 6.0 kHz/–6 dB Less than 20 kHz/–40 dB
 Spurious and image rejection ratio 	: More than 70 dB (1.8-29.999999 MHz)
 Audio output power (at 13.8 V DC) 	: More than 2.0 W at 10% distortion with an 8 Ω load
RIT variable rangePHONES connector	: ±1200 Hz : 3-conductor 6.5 (d) mm (1/4")

: 3-conductor 6.5 (d) mm (1/4") : 2-conductor 3.5 (d) mm (1/8") /8Ω

Applicable U.S. Military Specifications

• EXT SP connector

AT-180 AUTOMATIC ANTENNA

Compact, light weight antenna

Dynamic microphone with PTT lock switch.

TINER

SM-27 DESKTOP

MICROPHONE

tuner

Standard	MIL 810 F	
	Method	Procedure
Temperature Shock	503.4	I
Rain Drip*	506.4	III
Vibration	514.5	I
Shock	516.5	I, IV

ain Drip test was performed on the front panel of meets equivalent MIL-STD-810-C, -D and -E Alsom



Covers 2.5-30MHz (amateur band). OPC-2321 is required.



CT-17 CI-V LEVEL CONVERTER For remote transceiver control a PC equipped with an RS-232C port. OPC-599 ACC 13 PIN CABLE ADAPTER

OPC-2321 CONTROL CABLE FOR AH-740 MB-23 CARRYING HANDLE HM-36 HAND MICROPHONE me as that supplied.



Fiberglass mobile mounting an-tenna element for use with AH-740. Covers 2.2–30MHz (amateur band)

Count on us!

Printed in Japan

Your local distributor/dealer:

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CB-338 HIGH STABILITY

proved frequency stability. Frequency stability: ±0.5 ppm

CRYSTAL UNIT

POC type crystal oscillator for im-

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