



HF ALL BAND TRANSCEIVER

IC-718

The Long-Selling HF Transceiver Now Improved Even More



Superior Basic Performance

The IC-718 is a long-standing HF radio, with over 150000 units*¹ produced since its launch. It is renowned for its simple, user-friendly operation and reliable basic performance, making it popular among both new and experienced operators. The well-designed receiver system minimizes image and spurious responses, ensuring better signal fidelity, while delivering superior receiver IMD, particularly against nearby in-band interference. The general coverage receiver spans from 0.03 to 29.99999 MHz*² continuously in SSB, AM, and CW modes. Additionally, the IC-718 is rugged enough to meet MIL-810-STD environmental testing standards.

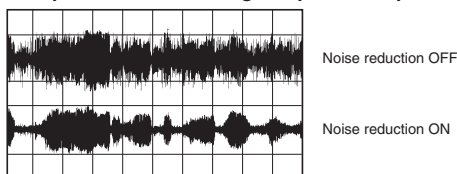
*¹ As of November, 2024.

*² Guaranteed range: 0.5 ~ 29.999999 MHz

Noise Reduction Function

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

Comparison of receive signal speaker output



Automatic Notch Out of the Filter

The Notch Filter function automatically minimizes beat signals and heterodynes while preserving the received 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.

RF Gain Control

The RF gain adjusts minimum response receiver gain, and ignores signals weaker than the preset level — providing pleasant standby, or scanning operation. It is combined with the squelch control.

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.

Microphone Compressor

The IC-718 has a low distortion 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.

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 an adjustable break-in delay.

Easy VOX Operation

A VOX (voice operated transmission) is included with the IC-718. It provides hands-free operation by detecting audio signals from the microphone.

Built-in Voice Synthesizer

Built-in voice synthesizer announces the operating frequency, mode and S-meter level in clear electronically generated voice in English. Audio level, speed, and contents are adjustable in the SET mode.

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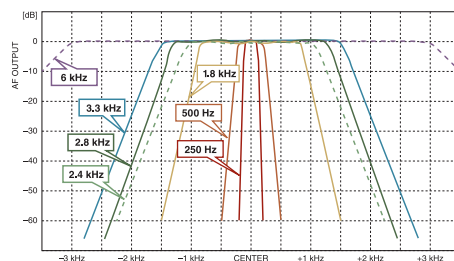
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Selectable IF Filter Widths

The FPGA (Field Programmable Gate Array) digital filtering system has been adopted. Two standard IF widths are available, and the third width can be selected from the five to suit your style of operation.



* 6 kHz: Wide standard filter
2.4 kHz: Normal (Narrow for AM) standard filter

Front Mounted 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.

Simple Operation

The IC-718 is equipped with a minimum number of buttons and knobs for superior feature selectability. Use 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 quickly turning the dial. And the band stacking register is very convenient when changing operating bands.

Optional Automatic Antenna Tuner

The optional automatic antenna tuner, AH-730 performs tuning operations at a high speed of about 2 to 3 seconds. When you change the operation band, band information is transferred to the tuner and automatically matches to the antenna.

Optional Automatic Tuning Antenna AH-740

The optional vehicle mount automatic tuning antenna provides relay-driven high-speed tuning from 2.5 to 30 MHz. Its IP55 dust-protection and water jet resistance ensures reliable operation in harsh weather conditions.

Other Features

- USB, LSB, CW, RTTY (FSK) and AM modes are built-in
- Level adjustable noise blanker
- RF attenuator and Pre-amplifier
- A variety of scanning function types
- At total of 101 memory channels
- A hand microphone is supplied



SPECIFICATIONS

GENERAL			
Frequency coverage	Rx	0.030 ~ 29.999 MHz*1	
	Tx	1.800 ~ 1.999, 3.500 ~ 3.999, 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 MHz	
		*1 Guaranteed range: 0.500 ~ 29.999 MHz.	
Mode	A1A, A3E, J3E, F1B (USB, LSB, CW, RTTY (FSK), AM)		
Number of memory channels	101 (99 regular, 2 scan edges)		
Frequency resolution	1 Hz		
Frequency stability	Less than ±20 ppm (−10°C ~ +60°C, +14°F ~ +140°F)		
Antenna connector	SO-239 (50 Ω unbalanced)		
Power supply requirement	13.8 V DC ±15%		
Power consumption	Rx	0.7 A typ. (Standby), 2.0 A (Maximum audio)	
	Tx	20 A (at 100 W output power)	
Operating temperature range	−10°C ~ +60°C, 14°F ~ 140°F		
Dimensions (W × H × D) (Projections not included)	240 × 95 × 239 mm, 9.4 × 3.7 × 9.4 in		
Weight (Approximately)	3.9 kg, 8.6 lb		
TRANSMITTER			
Output power	SSB, CW, RTTY	2 ~ 100 W	
	AM	1 ~ 35 W	
Modulation system	SSB	Digital PSN modulation	
	AM	Digital low power modulation	
Spurious emissions	Less than −50 dB		
Carrier suppression	More than 40 dB		
Unwanted sideband	More than 50 dB		
Microphone impedance	8-pin connector 600 Ω		
RECEIVER			
Sensitivity (at 10 dB S/N)		0.5 ~ 1.799999 MHz	1.8 ~ 29.999999 MHz
	SSB, CW	—	Less than −16 dBμV (0.16 μV)
	AM	Less than 22 dBμV (12.6 μV)	Less than 6 dBμV (2.0 μV)
Sensitivity (at 12 dB SINAD) (RED version)		1.8 ~ 2.999999 MHz	3.0 ~ 29.999999 MHz
	SSB, CW	Less than 10 dBμV (3.16 μV)	Less than 0 dBμV (1.0 μV)
	AM	Less than 16 dBμV (6.3 μV)	Less than 6 dBμV (2.0 μV)
Squelch sensitivity	SSB (Threshold)	Less than 15 dBμV (5.6 μV)	
Selectivity (EXP filter OFF)		More than	Less than
	SSB (BW= 2.4 kHz)	2.4 kHz/−6 dB	3.4 kHz/−40 dB
	CW (BW= 500 Hz)	500 Hz/−6 dB	700 Hz/−40 dB
	RTTY (BW= 500 Hz)	500 Hz/−6 dB	800 Hz/−40 dB
	AM (BW= 6 kHz)	6.0 kHz/−6 dB	10 kHz/−40 dB
Spurious and image rejection	SSB, CW, AM	More than 70 dB (1.8 ~ 29.999 MHz)	
Audio output power	More than 2.0 W (at 10% distortion with an 8 Ω load)		
External speaker connector	2-conductor 3.5 (d mm (1/8"))/8Ω		

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

Applicable U.S. Military Specifications

Standard	MIL 810 G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I
Vibration	514.6	I
Shock	516.6	I

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Les spécifications et informations données dans ce document peuvent être modifiées sans préavis.

OPTIONAL ACCESSORIES

DESKTOP MICROPHONES



SM-30
Compact, lightweight microphone.



SM-50
Dynamic microphone with [UP/DOWN] switches and a low cut function.

HAND MICROPHONE



HM-219
Same as supplied.

EXTERNAL SPEAKERS



SP-41
Front mounted headphone jack.



SP-35/L
Compact speaker
SP-35: 2 m, 6.6 ft cable
SP-35L: 6 m, 19.7 ft cable

HF + 50 MHz 1 kW LINEAR AMPLIFIER



IC-PW2
Full duty cycle operation. OPC-599 is required.

AUTOMATIC TUNING ANTENNA



AH-740
Covers 2.5 ~ 30 MHz (amateur band). OPC-2321 is required.

AUTOMATIC ANTENNA TUNER



AH-730
Covers 1.8 ~ 54 MHz with a 7 m, 23 ft or longer wire antenna.

FOLDED DIPOLE ANTENNA



AH-710
Covers 1.9 ~ 30 MHz bands.

ANTENNA ELEMENT



AH-5NV
Fiberglass mobile mounting antenna element for use with the AH-740.

- **OPC-599** ACC CABLE ADAPTER 13 pin to 7-pin + 8-pin
- **OPC-1465** CONTROL CABLE for use with AH-730 (10 m, 32.8 ft)
- **OPC-2321** CONTROL CABLE for use with AH-740 (6 m, 16.9 ft)
- **MB-23** CARRYING HANDLE
- **MB-118** MOBILE BRACKET

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

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