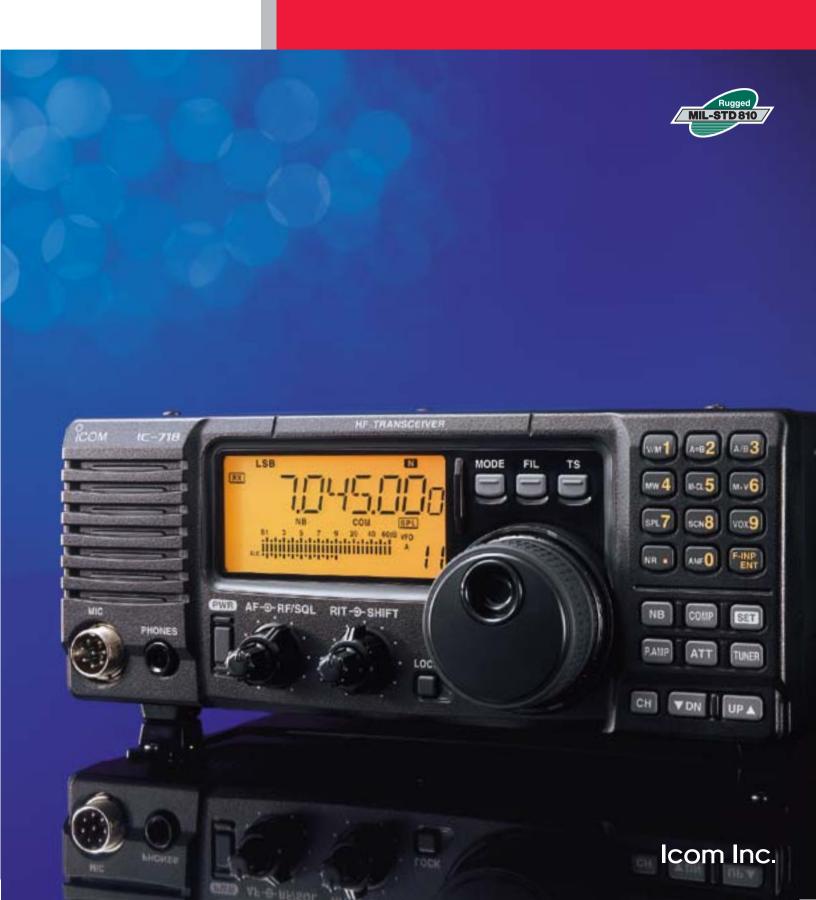


IC-718



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

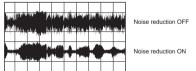


Noise reduction:

some versions.

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 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 gain 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 level—providing 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 OR THE HF TRA

The HF bands allow you to tances covering many km e world. With the superior performance as wide dynamic range, operation you will find making rience the combination of the nology, along with the size a will see the IC-718 will be the ever own.

HF TRAN





IGIN OF INSCEIVER

communicate over long diseven to the other side of the ormance found in the IC-718, high C/N ratio, and full duty g these contacts easy. Expee latest RF and digital techand simplified operation. You he most practical rig you will

SCEIVER

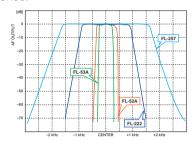
718





Flexible filter selection

An optional IF filter can be installed into the transceiver to suit your operating preference.



High frequency stability

When the optional CR-338 $\mbox{\scriptsize HIGH}$ STABILITY

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



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...



Double-conversion superheterodyne

0.16µV (1.8-29.999999 MHz)

13 μV (0.5–1.799999 MHz) 2 uV (1.8-29.999999 MHz)

More than 2.1 kHz/-6 dB Less than 4.5 kHz/-60 dB

More than 6.0 kHz/-6 dB

Less than 20 kHz/-40 dB

More than 2.0 W at 10% distortion

: 2-conductor 3.5 (d) mm (1/8") /8 Ω

: 3-conductor 6.5 (d) mm (1/4")

More than 70 dB

with an 8 Ω load

: +1200 Hz

(1.8-29.999999 MHz)

Less than 5.6 µV (SSB)

SPECIFICATIONS

GENERAL

• Frequency range : Rx 0.030–29.999999 MHz*

1.800- 1.999999 MHz*2 3.500- 3.999999 MHz*2 7.000- 7.300000 MHz 10.100-10.150000 MHz 14 000-14 350000 MHz 18 068-18 168000 MHz 21.000–21.450000 MHz 24.890–24.990000 MHz 28.000-29.700000 MHz

teed range: 0.5–29.999999 MHz **varies according to version : USB, LSB, CW, RTTY (FSK), AM

Mode

101 (99 regular, 2 scan edges)

No. of memory Ch.

 Frequency resolution 1 Hz

· Frequency stability

· Less than +200 Hz from 1 min to 60 min. after power ON. After that rate of stability less than ±30 Hz/hr. at +25°C (+77°F). Temperature fluctuations 0°C to +50°C (+32°F to +122°F) less than ±350 Hz

Power supply requirement: 13.8 V DC ±15 % (negative ground)

• Current drain (at 13.8 V DC):

Receive Transmit

Stand-by 1.3 A max. audio 2.0 A 20.0 A max. power : -10°C to +60°C; +14°F to +140°F

· Operatable temp. range

: SO-239 (50 Ω) Antenna connector

All stated specifications are typical and subject to change without notice or obligations.

 Dimensions : 240(W)×95(H)×239(D) mm (projections not included) 97/16(W)×33/4(H)×913/32(D) in

 Weight (approx.) 3.8 kg; 8 lb 6 oz ACC connector 13-pin

 REMOTE connector : 2-conductor 3.5 (d) mm (1/8")

TRANSMITTER

2-100 W

 Modulation system SSB

Balanced modulation AM Low level modulation

 Output power SSB, CW, RTTY

2-35 W Spurious emissions : Less than -50 dB below peak output power

*spurious freq.; below 30 MHz: -50 dB, above 30 MHz: -60 dB More than 40 dB Carrier suppression

 Unwanted sideband More than 50 dB 8-pin connector (600 Ω) Microphone connector 3-conductor 6.5 (d) mm (1/4") KEY connector SEND connector Phono (RCA)

Supplied accessories:

• Hand microphone • DC power cable Spare fuses

 ALC connector Phono (BCA)

MIL 810 F Standard Temperature Shock Rain Drip* Vibration 516.

RECEIVER

Rain Drip test was performed on the front panel only Also meets equivalent MIL-STD-810-C. -D and -E

Applicable U.S. Military Specifications

OPTIONS



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.)



SP-21 EXTERNAL SPEAKER Input impedance: 8Ω Max. input power: 5W



AH-2b ANTENNA ELEMENT For mobile operation with the AH-4. All bands between 7–30 MHz can be matched.



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



Receiver system

 ΔM

SQL sensitivity

Selectivity

AM

rejection ratio

(at 13.8 V DC)

· Spurious and image

Audio output power

RIT variable range

• EXT SP connector

PHONES connector

Sensitivity (10 dB S/N)

SSB, CW, RTTY

SSB, CW, RTTY

AT-180 AUTOMATIC ANTENNA TUNER Compact, light weight antenna



PS-125 DC POWER SUPPLY Compact power supply with high current canability Output: 13.8 V DC (25 A max.)



SP-23 EXTERNAL SPEAKER 4 audio filters, front mounted headphone jack (Not available for EU countries)





SM-50 DESKTOP MICROPHONE Dynamic microphone. Includes [UP]/[DOWN] switches and low cut



SM-30 DESKTOP MICROPHONE Compact, lightweight electret mi-SM-20 is also available.



SM-27 DESKTOP MICROPHONE Dynamic microphone with PTT



CT-17 CI-V LEVEL CONVERTER For remote transceiver control from a PC equipped with an RS-232C port.

OPC-599 ACC 13 PIN CABLE ADAPTER IC-MB5 MOBILE BRACKET MB-23 CARRYING HANDLE HM-36 HAND MICROPHONE



CRYSTAL UNIT POC type crystal oscillator for improved frequency stability. Frequency stability: ±0.5 ppm



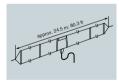
UT-102 VOICE SYNTHESIZER Announces the operating mode, frequency and signal strength level, etc.



UT-106 DSP UNIT Provides AF DSP functions, such as noise reduction and auto notch. Already installed with some ver-



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



AH-710 FOLDED DIPOLE ANTENNA Covers from 1.9 to 30 MHz band. Has a PL-259 connector. Easy to

Same as that supplied.

ICOM Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

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