O ICOM

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 4element system is employed for the 1st receive mixer, providing superior receive IMD, especially from in-band near-by interfering signals. A well-designed doubleconversion 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 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!

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The HF bands allow you to tances covering many km e world. With the superior perfor such 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 NSCEIVER

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 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...



: 240(W)×95(H)×239(D) mm

97/16(W)×33/4(H)×913/32(D) in

3.8 kg; 8 lb 6 oz

Dimensions

• Weight (approx.)

(projections not included)

SPECIFICATIONS

| G | ENERAL | | |
|--|--|----------------------|--|
| Frequency range | : | | |
| Rx 0.030–29.999999 MHz*1 | | | |
| Tx 1.800- 1.999 | 1.800- 1.999999 MHz*2 3.500- 3.999999 MHz*2 | | |
| 7.000- 7.300 | 000 MHz 10.100- | -10.150000 MHz | |
| 14.000-14.350000 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 | 999999 MHz *2varies a | according to version | |
| Mode | : USB, LSB, CW, RTTY (FSK), AM | | |
| No. of memory Ch. | lo. of memory Ch. : 101 (99 regular, 2 scan edges) | | |
| 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 fluc- | |
| | tuations 0°C to +50°C (+32°F to | | |
| | +122°F) less than ±350 Hz | | |
| Power supply requireme | nt: 13.8 V DC ±15 9 | % (negative ground) | |
| Current drain (at 13.8 V D | OC): | | |
| Receive | Stand-by | 1.3 A | |
| | max. audio | 2.0 A | |
| Transmit | max. power | 20.0 A | |
| Operatable temp. range | : -10°C to +60°C | ; +14°F to +140°F | |
| Antenna connector | : SO-239 (50 Ω) | | |
| | | | |
| | | | |

| ACC connector | : 13-pin | | |
|---|------------------------------------|--|--|
| REMOTE connector | : 2-conductor 3.5 (d) mm (1/8") | | |
| | | | |
| | | | |
| TRANSMITTER | | | |
| Modulation system | : | | |
| SSB | Balanced modulation | | |
| AM | Low level modulation | | |
| Output power | : | | |
| SSB, CW, RTTY | 2–100 W | | |
| AM | 2–40 W | | |
| Spurious emissions | : Less than -50 dB below peak out- | | |
| | put power | | |
| *spurious freq.; below 30 MHz: -50 dB, above 30 MHz: -60 dB | | | |
| Carrier suppression | : More than 40 dB | | |
| Unwanted sideband | : More than 50 dB | | |
| Microphone connector | | | |
| KEY connector | : 3-conductor 6.5 (d) mm (1/4") | | |
| SEND connector | : Phono (RCA) | | |
| ALC connector | : Phono (RCA) | | |
| | | | |
| Supplied accessories: | | | |
| Hand microphone • DC power cable • Spare fuses | | | |
| • nanu microphone • DC power cable • Spare luses | | | |

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

OPTIONS



HF+50 MHz 1 kW HF LINEAR AMPLIFIER

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



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



SP-21 EXTERNAL SPEAKER Input impedance: 8Ω Max. input power: 5W SP-20 is also available (Not available for EU countries)



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



SM-20 DESKTOP MICROPHONE High quality desktop microphone. Includes.[UP]/[DOWN] switches and low cut function.



455 kHz FILTERS Have good shape factor and provide you with better reception.



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



Same as that supplied.

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



HM-36 HAND MICROPHONE

FL-52A CW/RTTY narrow;

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



- with an 8 Ω load : +1200 Hz
- : 3-conductor 6.5 (d) mm (1/4")
- : 2-conductor 3.5 (d) mm (1/8") /8 Ω

Applicable U.S. Military Specifications

Receiver system

AM

SQL sensitivity

Selectivity

AM

rejection ratio

(at 13.8 V DC)

RIT variable range

• EXT SP connector

TUNER

tuner

Compact, light weight antenna

PHONES connector

| 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 | | |
| * D. S. D. S. M. S | | | | |

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



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



CR-338 HIGH STABILITY CRYSTAL UNIT POC type crystal oscillator for im-proved frequency stability. Frequency stability: ±0.5 ppm OPC-599 ACC 13 PIN CABLE ADAPTER IC-MB5 MOBILE BRACKET MB-23 CARRYING HANDLE

CT-17 CI-V LEVEL

CONVERTER

For remote transceiver control

from a PC equipped with an RS-232C port.

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

ICOM FRANCE

Zac de la Plaine - 1, Rue Brindejonc des Moulinais BP 45804 - 31505 TOULOUSE CEDEX 5 Tél : 05 61 36 03 03 - Fax : 05 61 36 03 00 WEB ICOM : http://www.icom-france.com E-mail : icom@icom-france.com







