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.

**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 0.03–29.99999 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: 0.5–29.99999 MHz

**Optional DSP capability**
With the optional UT-108* 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:**
Comparison of receive signal speaker output

This automatically minimizes beat signals and heterodynes while preserving the receive signal. Also, the notch frequency is automatically adjusted to follow interfering 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 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.

**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 hands-free operation by detecting audio signals from the microphone. It’s easy!

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

**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 automatic tuning antenna**
The optional vehicle mount automatic tuning antenna, AH-410 provides relay-driven high-speed tuning covering 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
- HF attenuator and Pre-amplifier
- Variety of scanning function types
- Total 101 memory channels are available
- Hand microphone is supplied, and more...
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 0.03–29.99999 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.

Optimal 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 SN 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 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.

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.

Ampile 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, 5–60 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 hands-free operation by detecting audio signals from the microphone. It’s easy!

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

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 automatic tuning antenna
The optional vehicle mount automatic tuning antenna, AH-70 provides relay-driven high-speed tuning covering 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
• HF attenuator and Pre-amplifier
• Variety of scanning function types
• Total 101 memory channels are available
• Hand microphone is supplied, and more...

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.
SPECIFICATIONS

GENERAL
Receiver
Frequency coverage
Transmitter
Power supply requirement
Antenna connectors
Dimensions (W × H × D)
Weight (approximately)

TRANSMITTER
Output power
Modulation system
Spurious emissions
Carrier suppression
Unwanted sideband
Microphone impedance

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

DESKTOP MICROPHONES
SM-30
SM-50
SM-27

PS-126
DC POWER SUPPLY
13.8 V DC, 25 A max. output.

455 kHz FILTERS
FL-58A CW narrow: 25kHz/6 dB
FL-222 SSB narrow: 18kHz/6 dB
FL-257 SSB wide: 3.3 kHz/6 dB

IC-PW1/PW1EURO
HF+50 MHz 1 kW HF LINEAR AMPLIFIER
(Original OPC-599 is required.)

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

hm-219 HAND MICROPHONE
Same as supplied. (May differ depending on the country.)

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

CR-338 HIGH STABILITY CRYSTAL UNIT
POC type crystal oscillator. Frequency stability: ±3 ppm

AT-180 AUTOMATIC ANTENNA TUNER
Covers 1.8–54 MHz. Covers 1.8–54 MHz with a 7 m (23 ft) or longer wire antenna. Covers 3.5–54 MHz with a 7 m (23 ft) or longer wire antenna.

AH-710 FOLDED DIPOLE ANTENNA
Covers 1.9–30 MHz bands.

AH-5NV NVIS KIT
Fiberglass mobile mounting antenna element for use with AH-700, Covers 2–30 MHz (amateur band with AH-700, Covers 2.5–30 MHz (amateur band). OPC-2321 is required.

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