

# IC-F510 IC-F610



The photo shows actual size.

- **Programmable 9 switches and independent AF volume knob**

The 2 pairs of up/down switches and P0–P4 switches allows you to customize switches to meet specific needs. The independent volume knob provides quick and easy operation.

- **256 channels with 16 banks**

Up to 256 channels with 10-character channel name can be stored and classified 16 banks. Further, original character can be made and displayed.

- **Built-in 5-tone, CTCSS and DTCS encoder/decoder plus DTMF autodial**

Multiple signalling systems are equipped for standard. 8 DTMF dialing memory are available. Optional UT-108 decodes DTMF with ANI functions.

- **Rugged construction**

The highly dependable aluminum die-cast chassis and polycarbonate front panel meet MIL standard for shock and vibration.

- **Advanced flash CPU**

The flash CPU is efficient for future upgrades and future compatibility with other protocols.

- **Selectable channel spacing**

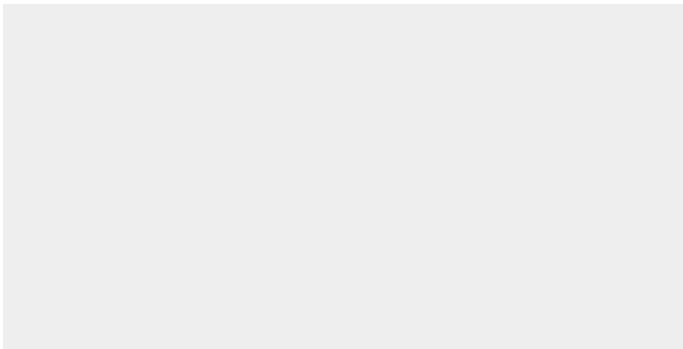
Wide and narrow switching is available for each channel independently (12.5/25kHz or 12.5/20kHz).

- **25W output power**



**ADDITIONAL FEATURES**

- **Invertible front panel for flexible setup**  
The front panel is invertible against the main unit. Always keeps the right direction of the front panel and the speaker face.
- **Large, alphanumeric display and backlit keys**
- **Audio compander provides clear audio**
- **Power on password and 'Stun' functions**
- **Microphone hanger functions**
- **10 scanning list and normal/priority scan**
- **2 types of optional voice scrambler**
- **SmarTrunkII™ and LTR® Trunking capability**



**SPECIFICATIONS**

**GENERAL**

- Frequency coverage :
  - IC-F510 136-174MHz
  - IC-F610 400-430MHz 440-490MHz
  - 480-520MHz
- Number of channels : Max. 256 channels/16 banks
- Type of emission : 8K50F3E/16K0F3E (12.5/25kHz)  
8K50F3E/14K0F3E (12.5/20kHz)
- PLL channel step : 5kHz and 6.25kHz
- Frequency stability : ±1.5kHz
- Operating temp. range : -20°C to +55°C
- Power supply voltage : 13.2V DC
- Current drain :
  - Tx at 25W 7A
  - Rx max. audio 1.2A
  - standby 300mA
- Antenna connector : SO-239 (50Ω)
- Dimensions : 140(W)×40(H)×170(D) mm
- Weight : 1.2kg

**TRANSMITTER**

- Output power : 25W (at 13.2V DC)
- Max. freq. deviation : ±5.0kHz (wide)  
±2.5kHz (narrow)  
±4.0kHz (middle)
- Spurious emissions : 0.25μW (below 1GHz)
- Adjacent channel power : 70dB (wide, middle)  
60dB (narrow)
- Mic. connector : 8-pin modular (600Ω)

**RECEIVER**

- Sensitivity : -4dBμV typ. (emf) (at 20dB SINAD)
- Squelch sensitivity : -4dBμV typ. (threshold)
- Adjacent channel selectivity : 75dB typ. (wide, middle)  
65dB typ. (narrow)
- Spurious response : 75dB
- Intermodulation : 67dB typ.
- Audio output power : 4.0W at 10% distortion/4Ω load
- Ext. SP connector : 2-conductor 3.5(d) mm/4Ω

**Applicable U.S. Military Specifications**

The IC-F510/F610 meets MIL-STD requirement and strict environmental standards for shock (MIL 810 C, D, E) and vibration (MIL 810 C, D, E).

**Supplied Accessories**

- Hand mic.     DC power cable     Fuses
- Mounting bracket kit     Key assign stickers

Measurements made in accordance with ETS 300 086. All stated specifications are typical and subject to change without notice or obligation.

**OPTIONS**

- **HM-100N/TN HAND/DTMF MICROPHONE**  
Supplied microphone. Varies with version.
- **OPC-617 ACC CABLE**  
For external terminal connection.
- **SM-25 DESKTOP MICROPHONE**  
Convenient for dispatcher, equipped monitor switch.
- **SP-5/SP-10/SP-22 EXTERNAL SPEAKERS**  
Compact and easy-to-install.  
Input impedance: 4Ω; Max. input power: 5W
- **UT-105 SmarTrunk II™ Logic Board**  
SmarTrunk II is a trademark of SmarTrunk Systems Inc.
- **UT-108 DTMF DECODER UNIT**  
Provides DTMF decode and ANI capabilities.
- **UT-109/UT-110 VOICE SCRAMBLER UNITS**  
Provides operating security. Ask your dealer for details about usable version, etc.  
UT-109: Non-rolling type.    UT-110: Rolling type.
- **UT-111 LTR® Trunking UNIT**  
LTR® trunking is a registered trademark of the EFJohnson Radio Systems.



**Icom Inc.**

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: 06 6793 5302 Fax: 06 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

**Count on us!**

**Icom America Inc.**  
<Corporate Headquarters>  
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.  
Phone: (425) 454-8155 Fax: (425) 454-1509  
URL : <http://www.icomamerica.com>  
<Customer Service> Phone : (425) 454-7619

**Icom Canada**  
Glenwood Centre #150-6165 Highway 17,  
Delta, B.C., V4K 5B8, Canada  
Phone: (604) 952-4266 Fax: (604) 952-0090  
URL : <http://www.icomcanada.com>

**Icom (Australia) Pty. Ltd.**  
A.B.N. 88 006 092 575  
290-294 Albert Street, Brunswick, Victoria, 3056, Australia  
Phone: 03 9387 0666 Fax: 03 9387 0022  
URL : <http://www.icom.net.au>

**Icom New Zealand**  
146A Harris Road, East Tamaki, Auckland, New Zealand  
Phone: 09 274 4062 Fax: 09 274 4708  
URL : <http://www.icom.co.nz>

**Icom (Europe) GmbH**  
Communication Equipment  
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany  
Phone: 0211 346047 Fax: 0211 333639  
URL : <http://www.icomeurope.com>

**Icom Spain S.L.**  
C/ta. de Gracia a Manresa Km. 14,750  
08190 Sant Cugat del Valles Barcelona, SPAIN  
Phone: (93) 590 26 70 Fax: (93) 589 04 46  
URL : <http://www.icomspain.com>

**Icom (UK) Ltd.**  
Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.  
Phone: 01227 741741 Fax: 01227 741742  
URL : <http://www.icomuk.co.uk>

**Icom France S.a**  
Zac de la Plaine, Rue Brindejenc des Moulinais  
BP 6804, 31505 Toulouse Cedex, France  
Phone: 561 36 03 03 Fax: 561 36 03 00  
URL : <http://www.icom-france.com>

**Asia Icom Inc.**  
6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone: (02) 2559 1899 Fax: (02) 2559 1874  
URL : <http://www.asia-icom.com>

**Beijing Icom Ltd.**  
1305, Wanshang Plaza, Shijingshan Road,  
Beijing, China  
Phone: (010) 6866 6337 Fax: (010) 6866 3553



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