

# IC-F310S IC-F410S



- **Simple operation with up to 8 channels**

Up/down switches for volume and channel selection with LED's that indicate the selected operating channel.

- **Flexible setup**

Four programmable switches give access to a variety of functions and can be assigned functions for specific applications.

- **Durable construction**

The highly dependable diecast aluminum chassis and polycarbonate front panel are resistant to impact.

- **Multiple signalling systems**

CTCSS and DTCS encoder/decoder are standard; 2-tone/5-tone encoder (decoder optional) and SmarTrunk II™ capability\*. \*Optional UT-105 SmarTrunk II™ Logic Board is required; SmarTrunk II is a trademark of SmarTrunk Systems Inc.

- **Optional voice scrambler**

Provides higher communication privacy. Up to 1020 scrambling codes (4 groups x 255 codes) with divided frequency rolling system, or 32 scrambling codes are available with optional UT-110 or UT-109, respectively.

- **Selectable channel spacing**

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

- **Advanced PC programming package**



## ADDITIONAL FEATURES

- Voice scrambler on/off (optional UT-109/UT-110 required)
- Backlit keys for night operation
- Emergency call with single and repeat function
- Automatic ID transmission linked to PTT
- 51 frequencies for CTCSS (plus 1 programmable)
- Polarity selectable for DTCS
- Autodialing memory for DTMF
- Emergency and log/ID memories available
- 2 priority channels
- Normal and priority scan
- Scan start at power on
- Automatic scan start and/or receive mute when mic. is on hook
- CTCSS reverse burst
- Automatic priority channel selection and/or mute release when mic. is off hook
- Optional PIN code input to prevent operation by unauthorised persons
- Programmable minimum level for audio output
- Talk around function (temporary simplex operation on a duplex channel)
- Time-out timer
- Time-out ID transmission
- Penalty timer
- Transmit lockout (channel busy / repeater / reverse repeater)
- 2 selectable 'stun' functions (optional UT-96 required)
- Compact body provides easy installation

## SPECIFICATIONS

## GENERAL

- Frequency coverage\* :
 

IC-F310S	136-155 MHz	146-174 MHz
IC-F410S	400-430 MHz	440-470 MHz
	470-490 MHz	490-520 MHz
- Number of channels\* : 8 ch or 4 ch x 2 banks
- Type of emission :
 

16K0F3E (25 kHz; wide)
8K50F3E (12.5 kHz; narrow)
14K0F3E (20 kHz; middle)
- PLL channel step : 5 kHz and 6.25 kHz
- Frequency stability :  $\pm 1.5$  kHz
- Operating temp. range :  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$
- Power supply voltage : 13.2 V DC (negative ground)
- Current drain :
 

Tx at 25 W	7 A
Rx max. audio	700 mA
standby	200 mA
- Antenna connector : SO-239 (50  $\Omega$ )
- Dimensions : 140(W) $\times$ 40(H) $\times$ 170(D) mm
- Weight : 1.2 kg

## TRANSMITTER

- Output power : 25 W (10 W for Italy, 6 W for IC-F310S German ver.)
- Modulation system : Variable reactance freq. mod.
- Max. freq. deviation :  $\pm 5.0$  kHz (wide)  $\pm 2.5$  kHz (narrow)  $\pm 4.0$  kHz (middle)
- Spurious emissions : 0.25  $\mu\text{W}$
- Adjacent ch. power : 70 dB (wide/middle) 60 dB (narrow)
- Mic. connector : 8-pin modular (600  $\Omega$ )

## RECEIVER

- Intermediate freq. : 1st 31.05 MHz (IC-F310S) 46.35 MHz (IC-F410S) 2nd 450 kHz
- Sensitivity :  $-4$  dB $\mu\text{V}$  (amt. IC-F310S)  $-2$  dB $\mu\text{V}$  (amt. IC-F410S)
- Squelch sensitivity :  $-4$  dB $\mu\text{V}$  (IC-F310S)  $-2$  dB $\mu\text{V}$  (IC-F410S)

- Adj. ch. selectivity : 70 dB (wide/middle) 60 dB (narrow)
- Spurious response : 70 dB
- Intermodulation : 65 dB
- Audio output power : 3.5 W at 10% distortion/4  $\Omega$  load
- Ext. SP connector : 2-conductor 3.5 (d) mm (16 $\pi$ )/4  $\Omega$

## Supplied Accessories

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

\*Varies according to version.

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

## OPTIONS

- **UT-96 5-TONE UNIT**  
Provides 2-tone and 5-tone decoder capabilities
- **UT-105 SmarTrunk II™ Logic Board\***  
Provides SmarTrunk II™ capabilities.  
\*SmarTrunk II is a trademark of SmarTrunk Systems Inc.
- **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.
- **OPC-617 ACC CABLE**  
For external terminal connection.
- **SP-5/SP-10/SP-22 EXTERNAL SPEAKERS**  
Compact and easy-to-install.  
Input impedance: 4  $\Omega$ ; Max. input power: 5 W
- **HM-100/T HAND/DTMF MICROPHONE**  
Supplied microphone. Varies with version.

UT-96



SP-10



SP-22



OPC-617



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Count on us!

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