

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 : ± 1.5 kHz
- Operating temp. range : -20°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 Ω)
- 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.) (at 13.2 V DC)
- Modulation system : Variable reactance freq. mod.
- Max. freq. deviation : ± 5.0 kHz (wide) ± 2.5 kHz (narrow) ± 4.0 kHz (middle)
- Spurious emissions : 0.25 μW
- Adjacent ch. power : 70 dB (wide/middle) 60 dB (narrow)
- Mic. connector : 8-pin modular (600 Ω)

RECEIVER

- Intermediate freq. : 1st 31.05 MHz (IC-F310S) 46.35 MHz (IC-F410S) 2nd 450 kHz
- Sensitivity : -4 dB μV (amt. IC-F310S) -2 dB μV (amt. IC-F410S) (at 20 dB SINAD)
- Squelch sensitivity : -4 dB μV (IC-F310S) -2 dB μV (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 Ω load
- Ext. SP connector : 2-conductor 3.5 (d) mm (16 \times)4 Ω

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 Ω ; 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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