

# IC-F310 IC-F410



The photo shows actual size.

## ● Tough rugged construction

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

## ● Flexible signalling capabilities

CTCSS and DTCS encoder/decoder and DTMF, 2-tone and 5-tone encoder are standard. Of course, 2-tone and 5-tone decoder functions are optionally available to suite a wide variety of signalling requirements. In addition, the IC-F310/F410 are compatible with the SmarTrunk II™ system\*.

\*Optional UT-105 SmarTrunk II™ Logic Board is required.

## ● Programmable key assign function

A limited number of switches (4) provide simple operation. Moreover, functions can be assigned to switches providing customization to suit specific needs.

## ● Selectable channel spacing

Versions are available that allow wide/narrow switching independently for each channel.

## ● Alphanumeric display

## ● Advanced programming package for IBM® PC

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## ADDITIONAL FEATURES

- Key backlight helps night operation
- 32 channels for 5-tone encoder
- Emergency call with single and repeat function
- 8 identities + group code for 5-tone decode (optional)
- Selectable digits for 5-tone decode indication
- Automatic ID transmission linked to PTT
- 51 frequencies for CTCSS (plus 1 programmable)
- Polarity selectable for DTCS
- 7 autodialing memories for DTMF
- Up to 5 characters for memory name indication
- Bank separation capability
- 5 scan channel groups
- 2 priority channels
- Automatic scan start and/or receive mute when mic. is on hook
- Automatic priority channel selection and/or mute release when mic. is off hook
- Normal and priority scan
- Scan start at power on
- Adjustable transmission release period to prevent noise burst at end of transmission when using CTCSS
- Remote monitoring capability (optional UT-96 required)
- 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-F310	136-155 MHz
	146-174 MHz
IC-F410	400-430 MHz
	440-470 MHz
	470-490 MHz
	490-520 MHz

 \*Varies according to versions.
- Number of channels : 32 (16 ch x 2 banks)
- Type of emission : BK50F3E (12.5 kHz; narrow)  
16K0F3E (25 kHz; wide)
- Frequency stability : ±1500 Hz
- Operating temp. range: -30°C to +60°C
- Power supply voltage: 13.2 V DC (negative ground)
- Current drain (approx.):
 

Tx at 25 W	6.0 A (IC-F310)
	7.0 A (IC-F410)
Rx max. audio standby	700 mA
	200 mA
- Antenna connector : SO-239 (50 Ω)

- Dimensions : 140(W) x 40(H) x 170(D) mm
- Weight : 1.2 kg

### TRANSMITTER

- Output power : 25 W (at 13.2 V DC)
- Modulation system : Variable reactance frequency modulation
- Max. freq. deviation : ±2.5 kHz (narrow)  
±5.0 kHz (wide)
- Spurious emissions : 0.25 μW
- Adjacent ch. power : 60 dB (narrow)  
70 dB (wide)
- Mic. connector : 8-pin modular (600 Ω)

Measurement made in accordance with ETS 300 088. All stated specifications are subject to change without notice or obligation.

### RECEIVER

- Intermediate freq. : 1st 31.05 MHz (IC-F310)  
46.35 MHz (IC-F410)  
2nd 450 kHz
- Sensitivity : -4 dBμV (emf, IC-F310)  
(at 20 dB SINAD) -2 dBμV (emf, IC-F410)
- Squelch sensitivity : -7 dBμV (emf, IC-F310)  
-5 dBμV (emf, IC-F410)
- Adj. ch. selectivity : 60 dB (narrow)  
70 dB (wide)
- Spurious response : 70 dB
- Intermodulation : 65 dB
- Audio output power : 3 W typical at 5% distortion with a 4 Ω load
- Ext. SP connector : 2-conductor 3.5 (d) mm (1/8")/4 Ω

### Supplied Accessories

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

## OPTIONS

- **UT-96 5-TONE UNIT**  
Provides the transceiver with 5-tone decoder capabilities
- **UT-105 SmartTrunk II™ Logic Board\***  
Provides SmartTrunk II™ capabilities.  
\*SmartTrunk II™ is a trademark of SmartTrunk Systems Inc.

- **SP-5 EXTERNAL SPEAKER**  
Large speaker provides good audio quality.  
Input impedance: 4 Ω; Max. input power: 5 W
- **SP-10 EXTERNAL SPEAKER**  
Compact and easy-to-install.  
Input impedance: 4 Ω; Max. input power: 5 W

UT-96



SP-5



SP-10



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Count on us!

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