

VHF TRANSCEIVERS

**IC-F1721**

(VHF transceiver without 10-keypad)

**IC-F1721D**

(P25 digital VHF transceiver without 10-keypad)

**IC-F1821**

(VHF transceiver with 10-keypad)

**IC-F1821D**

(P25 digital VHF transceiver with 10-keypad)

# YOUR MOBILE ANALOG TO DIGITAL CONVERSION



IC-F1721D, IC-F1821D only

**BIIS 1200  
Compatible**

Photo includes optional separation kit, RMK-2 and separation cable, OPC-609.

## SPECIFICATIONS

## GENERAL

- Frequency range : 136–174MHz
- Number of channels : Max. 256 channels/ 32 zones
- Channel spacing : 12.5/25kHz, 15/30kHz
- Antenna impedance : 50Ω
- PLL channel step : 2.5kHz, 3.125kHz
- Power supply requirement : 13.6V DC
- Current drain (approx.) :
  - Tx 50W : 14.0A
  - Rx Max. audio : 1200mA
  - Stand-by : 600mA
- Operating temperature range : –30°C to +60°C; –22°F to +140°F
- Dimensions (W×H×D) : 175×45×170 mm;
- (projections not included) : 6<sup>7</sup>/<sub>16</sub> × 1<sup>7</sup>/<sub>16</sub> × 6<sup>11</sup>/<sub>16</sub> in
- Weight (approx.) : 1.5kg; 3.3lb

## TRANSMITTER

- Output power (approx.) : 50W
- Modulation system : Variable reactance frequency modulation
- Max. frequency deviation : ±2.5kHz (Narrow) ±5kHz (Wide)
- Frequency error : ±2.0ppm
- Spurious emissions : 75dB typ.
- Adjacent channel power : 60dB (Narrow) 70dB (Wide)
- Audio harmonic distortion : 3% typ. (40% deviation)
- FM Hum and Noise : 40dB typ. (Narrow) 45dB typ. (Wide)
- Modulation limiting : 70–100%
- Ext. microphone impedance : 600Ω (8-pin modular)

## RECEIVER

- Sensitivity : 0.25μV typ. (at 12 dB SINAD)  
0.25μV typ. (5% BER APCO)
- Squelch sensitivity : 0.25μV typ. (at threshold)
- Adjacent channel selectivity : 75dB typ. (Narrow) 80dB typ. (Wide)  
73dB typ. (APCO)
- Spurious response : 80dB typ.
- Intermodulation : 75dB typ. (Narrow) 77dB typ. (Wide)  
77dB typ. (APCO)
- Hum and noise ratio : 45dB typ. (Narrow) 50dB typ. (Wide)
- Audio output power : 4W typ. at 10% distortion with a 4Ω load  
External audio output (D-sub) : 22W typ. at 10% distortion with a 4Ω load
- External speaker connector : 2-conductor 3.5 (d) mm (1/8")/4Ω

## Supplied Accessories

## IC-F1721/D

- Hand microphone, HM-148
- Mounting bracket kit

## IC-F1821/D

- Hand microphone, HM-148
- External speaker, SP-22

- DC power cable
- Key assign stickers

- DC power cable
- Mounting bracket kit

- Microphone hanger
- Microphone hanger
- Key assign stickers

Measurements made in accordance with EIA-152C/204D, TIA-603.

All stated specifications are subject to change without notice or obligation.

## OPTIONS

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

## HAND MICROPHONES



- HM-100N : Regular hand microphone.
- HM-100TN : DTMF microphone.
- HM-148 : Dynamic microphone for heavy duty use. Same as supplied.

## SEPARATION KIT



- RMK-2 : For front panel detachment installation.
- Use with one of the following cables: OPC-609 (1.9m; 6.2ft), OPC-607 (3m; 9.8ft), or OPC-608 (8m; 26.2ft).

## SEPARATION CABLES

SM-25  
DESKTOP MICROPHONE

Convenient for dispatching, equipped with monitor switch.

## EXTERNAL SPEAKERS



- SP-5 : Large speaker for good audio quality.
- SP-22 : Compact and easy-to-install. Same as supplied with the IC-F1821/D.

OPC-617  
ACC CABLE

For external connection such as dimmer control, PTT control, horn drive, etc.

## INTERNAL UNITS



- UT-109 (Ver. 02) : Non-rolling type voice scrambler.
- UT-110 (Ver. 02) : Rolling type voice scrambler.
- UT-111 : Provides LTR® trunking capabilities.

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