- **50 Watt continuous full duty cycle operation**
  This repeater looks as good as it performs. A rugged heatsink, large cooling fans and a high performance power module provide the repeater with a stable 50W at full duty cycle operation.

- **Automatic battery backup system**
  The repeater has a built-in power supply unit (100–120V or 220–240V AC). A built-in backup system supports automatic switching to an external power supply (13.6V DC) if the AC power supply fails.

- **Built-in CTCSS, DTCS, 2-Tone, 5-Tone, DTMF encoder & decoder**
  Multiple signaling systems are equipped as standard. These systems are fully compatible with Icom F-series radios.

- **Internal space for duplexer and isolator**
  The repeater has an internal space to install a duplexer and isolator*. The controls of the duplexer are accessible from the front of the repeater without disassembly. Faster and easier maintenance and adjustment is possible.

* Ask your dealer for details about available duplexers and isolators.

- **16-digit alphanumeric display**
  The 16-digit alphanumeric LCD displays channel number, channel name, decoded ID (with 2-Tone and DTMF), etc. Great for use as a base station.

- **Telephone interconnect capability**

- **DTMF remote control capability**
  You can control the repeater from a remote location over the air or over a phone line with DTMF.

- **Optional wall mount bracket, MB-77 and 19 inch rack mount bracket, MB-78**

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*Ask your dealer for details about available duplexers and isolators.*
IC-FR3000 • IC-FR4000

ADDITIONAL FEATURES
• Master/Slave backup operation by connecting two repeaters
• Self check function checks for internal errors and alerts with a beep sound or with a phone call
• Accessory connector (D-sub 25-pin) on the rear panel for trunking controller including LTR, PassPort, SmarTrunk II and MPT1327
• Compatible with VEGA tone remote control system
• 5-Tone relay function
• Optional Voice Scrambler UT-109 or UT-110
• 5-Tone relay function
• Compatible with VEGA tone remote control system
• Master/Slave backup operation by connecting two repeaters

REAR VIEW

SPECIFICATIONS

GENERAL
• Frequency coverage:
  IC-FR3000
  VHF 148–172, 150–174MHz
  UHF 400–430, 430–450MHz
• Number of channels: 32 channels
• Channel spacing: 12.5/25kHz
• PLL channel step: 5, 6.25kHz
• Channel spacing: 12.5/25kHz
• Number of channels: 32 channels
• Current drain (at 13.6V DC):
  TX: VHF (at 50W): 15A
  RX: UHF (at 50W): 20A
  RX: Max. audio: 2A typ.
  Stand-by: 1A typ.
  Antenna impedance: 50Ω (Type-N × 2)
  Dimensions (W×H×D): 410×110×360 mm ;
  16⅞ × 4⅞ × 14⅜ in
  Weight: 12kg ; 26.4lb (approx.)
  Output power: 50W (high), 10W (low)
  Adjacent channel power: 70/60dB (wide/narrow)
  Hum and noise ratio: 40/34dB (wide/narrow)
  Intermodulation rejection: 70dB
  Sensitivity: 0.25µV typ. (at 12dB SINAD)
  Audio output power: 2.5W typ. at 10% distortion
  Adjacent Ch, selectivity: 70/60dB (wide, narrow)
  Spurious response: 70dB

TRANSmitter
• Operating temperature range: –30˚C to +60˚C;
–22˚F to +140˚F
• Weight: 12kg ; 26.4lb (approx.)
• Frequency coverage:
  IC-FR4000
  VHF 400–430, 450–470MHz
  UHF ±1.5ppm
  VHF ±2.5ppm
• Weight: 12kg ; 26.4lb (approx.)
• nutshell: 12kg ; 26.4lb (approx.)

VHF AND UHF FM REPEATERS
• Accessory connector (D-sub 25-pin) on the rear panel for trunking
• Accessory connector (D-sub 25-pin) on the rear panel for trunking
• Accessory connector (D-sub 25-pin) on the rear panel for trunking
• Accessory connector (D-sub 25-pin) on the rear panel for trunking

OPTIONS
• MB-77 WALL MOUNT BRACKET
For mounting the repeater on a wall. Hinges provide easy maintenance while mounted.
• MB-78 19˝ RACK MOUNT BRACKET
The 19 inch rack mount bracket is 3U height (133.5mm; 5⅛ in).

REAR VIEW

APPLICATIONS
VHF AND UHF FM REPEATERS
• Accessory connector (D-sub 25-pin) on the rear panel for trunking controller including LTR, PassPort, SmarTrunk II and MPT1327
• Compatible with VEGA tone remote control system
• 5-Tone relay function
• Optional Voice Scrambler UT-109 or UT-110

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UT-109
Provides operating security. Up to 32 non-rolling scrambling codes are available.

Asian American Medical Council
ICOM makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Applicable U.S. Military Specifications

Urban 2000
ICOM makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Urban 9500
ICOM makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Urban 1000
ICOM makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Urban 5000
ICOM makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Urban 10
ICOM makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Urban 1
ICOM makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.