



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-FR5000. You'll find the answers to all your questions on the ICOM IC-FR5000 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ICOM IC-FR5000
User guide ICOM IC-FR5000
Operating instructions ICOM IC-FR5000
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Instruction manual ICOM IC-FR5000

The advertisement features the ICOM logo at the top left. A red banner at the top right lists 'VHF AND UHF REPEATERS' with 'IC-FR5000 (VHF Repeater)' and 'IC-FR6000 (UHF Repeater)'. The central part of the ad is a dark blue panel with the 'iDAS' logo (COM DIGITAL ADVANCED SYSTEM) and 'MIL-STD-810' certification. It includes a 'Dual mode Double Channels' section with images of a radio unit, a tower, a worker, a truck, and a user. A list of features on the right includes: 'iDAS digital/analog FM', 'Two RF modules in one unit (option)', '50W output 25W full duty', '5-Tone, DTMF, CTCSS, DTCSS', '1U height rackmount', and '32ch memory, dot-matrix LCD'. At the bottom, a close-up of the radio's front panel shows a digital display with '81 ICOM INC.' and various control buttons.



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Manual abstract:

Icom allows you to meet any narrow banding requirements today, and provides a solution to any future spectrum deficiencies. Double your channel capacity Existing Analog FM (12.5kHz) IDAS Digital (12.5kHz) Digital/analog mixed mode operation The IC-FR5000 series can receive both analog and digital signals on a single channel. You can partially introduce the IDAS system, while using the existing analog radios in a system. The IDAS system allows you to scale migration to narrow band digital at your own pace and need. Network interface*1 The IDAS repeater has a network interface* and can be connected to a LAN or the Internet via Ethernet cable. Communication range is vastly extended by the Internet connection and eliminates the need for expensive leased lines. @@@@This will allow you further effective channel management by sharing a minimum of channels with a large number of users. *1 Some features are planned and released in the future.

Stable, Flexible and High-Performing Repeater 19-inch rack mount 2U height low profile design A 2U height configuration allows you to stack multiple units in an industry standard 19-inch rack. Easy-to-see display and 5 programmable buttons The 12-digit dot-matrix display, 5 programmable buttons, 32 memory channels and internal speaker allow you to use the repeater as a base station or to check repeater activity. Other features · Audio compander* · PTT priority setting (Local Mic., external PTT or repeater operation) Two RF channel modules in one unit Two RF modules* can be installed in a chassis to reduce installation space, while the RF modules can be programmed and operated independently. LEDs on the front D-SUB 25-pin accessory connector The IC-FR5000 series has a programmable D-SUB 25-pin accessory connector for connecting various trunking controllers or external remote control devices.

@@@@@The IC-F3161D and IC-F5061D series are designed for the IDAS system. @@@@ (at 12dB SINAD) Digital 0.25µV typ. (at 5% BER) · Spurious response : 90dB typ. · Intermodulation rejection : 78dB typ.

· Hum and noise ratio : 50/45dB typ. (wide/narrow) · Audio output power : 4.0W typ. at 5% distortion with a 4 load · Max. frequency deviation : ±5.0/2.5kHz (wide/narrow) · Spurious emissions : 80dB typ. · Adjacent channel power : 73/67dB typ. (wide/narrow) · FM hum and noise : 50/45dB typ. (wide/narrow) · Audio harmonic distortion : 1% typ.

(40% deviation) · Microphone impedance : 600 (8-pin modular) · External speaker connector : 2-conductor 3.5 (d) mm (1/8)/4 Applicable U.S. @@@@ · SM-25 DESKTOP MICROPHONE Equipped with a monitor switch. · SP-22 EXTERNAL SPEAKER Compact and easy-to-install. @@Up to 32 non-rolling scrambling codes are available. (Analog mode only) · UT-110R VOICE SCRAMBLER UNIT* Up to 1020 (255 codes × 4 groups) rolling scrambling codes are available. (Analog mode only) SP-22 UT-109R UT-110R · UR-FR6000 UHF CHANNEL MODULE 400470MHz, 450520MHz, 50W · UR-FR5000 VHF CHANNEL MODULE 136174MHz, 50W * UT-109/UT-110 voice scramblers are not compatible with Inversion type voice scrambler. UR-FR6000 Icom, Icom Inc. @@NXDN is a trademark of Icom Incorporated and Kenwood Corporation.

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