![ICOM logo]

FR5000/FR6000
THE REPEATER FOR NOW, AND THE FUTURE

iDAS
ICOM DIGITAL ADVANCED SYSTEM

Improved audio quality

19" rack mount 2U height, low profile design

Easy to see display, 5 programmable buttons

2 RF channel modules in 1 unit

D-SUB 25 pin accessory connector

FEATURE	FUNCTION	BENEFIT
GENERAL		
Scaleable-Expandable	Able to add additional iDAS repeater modules to the 2RU chassis.	• Reduced rack space – smaller physical footprint
Multi-Mode Operation	Can program the repeater for analog 25 and 12.5 Kc operation, or 6.26 Kc NXDN FDMA digital operation.	• Allows easy, no cost transition path to 12.5 narrow analog or 6.25 NXDN digital operation • Simple programming can tailor the repeater modules operation mode
Mixed Mode Operation	Program the repeater for auto sense capability. The type of input signal received by the repeater is repeated, either digital or analog, on the same channel pair.	• Analog users and 6.25 Digital users can share the same frequency pair • The repeater "senses" the incoming mode and repeats in the mode received • Able to introduce 6.25 IDAS NXDN radios onto your repeater pair, and continue to provide analog service for the legacy users
Double Your Channel Capacity	Ability to use 6.25 NXDN IDAS operation.	• 6.25 Kc Spectrum Occupancy is half that of 12.5 Kc • Double your channel capacity by relicensing current 12.5 kc channel to 6.25 NXDN • Effectively provides two voice or data channels where there was only one
Multiple Table	There are **15 unique code tables, each table containing 15 possible CTCSS-DCS and RAN code combinations.** Each CH can be assigned one of the 15 tables.	• Community code panel built in • Allows for multiple groups of users, to access the repeater channel, with privacy

FEATURE	FUNCTION	BENEFIT
Programmable D-SUB 25 PIN Connector	Allows for external controllers to be interfaced with the repeater.	• Simplifies interfacing with External Controllers • Programmable pins can be software configured • Integrate tone or DC interface panels for console operator
AMBE +2 Codec	Digital Vocoder.	• Crisp and Clear Audio • Simultaneous data communication
32 Memory Channels	Programmable in software.	• Flexibility to access multiple agencies
CWID Transmission	Transmits a pre-programmed CWID station identifier with adjustable speed, audio frequency and interval.	• Ensure compliance with FCC regulations
Channel Modules	Install–Swap–RF repeater modules.	• Quick installation • Addition of modules is afforded by the scalable design • Effectively provide two self- contained repeaters in one 2RU chassis (VHF or UHF)
Self Check Function	Checks for internal errors.	• Provides easy maintenance and service
Wide/Narrow Channel Spacing	12.5 kHz and 25 kHz channel bandwidth.	• Compatibility with the older (wide) and newer (narrow) channel assignments • Very flexible to grow with the users changing needs
Built In Inversion Scrambling	Voice encryption for communications privacy.	• Optional UT-109R provides up to 32 scrambling codes • Optional UT-110R offers up to 1020 code combinations • Analog Mode only- Base Station Operation • Provides for additional communications security
High Power (50W)	Frequent checking of an assigned channel.	• Important frequencies can be continually checked for activity. • Users can assign one channel as priority channel
Frequency Error	+/- .5 ppm.	• Extremely stable transmitter
Time Out Timer	Disables transmitter after extended use.	• Helpful if the radio is accidentally keyed, or if a user gets too "long- winded", tying up the frequency beyond normal use • Transmitter can also be locked out for a programmable period of time following time out

For more information about this or any of Icom's quality products, as well as information about your nearest Icom dealer, please contact us.

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