Icom America Systems

6.25 DVR



6.25 FDMA Digital Voice Repeater

Repeats FDMA digital voice signals at 6.25kHz

Extend the range of your digital portables and mobiles. The 6.25 DVR repeats an incoming FDMA signal from a portable or mobile unit. A typical application would include a 6.25 DVR centrally located in the desired coverage area, with an antenna mounted as high as possible; and within the license ERP requirements. Users can easily experience two to three times the coverage versus simplex operation.

Repeats world-class analog signals at 12.5 or 25kHz

Combining legacy equipment with your new digital equipment? The 6.25 DVR can handle it. With 512 channel capacity and each channel individually PC programmable, this is a repeater your company or agency can grow with!



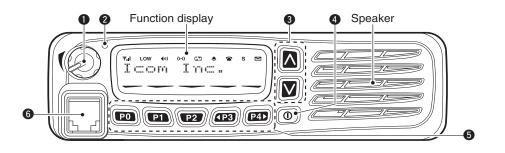
Features

- Built-in power supply: 13.8 VDC in or 110 VAC in or 220 VAC in
- Built-in battery back up and battery charging capabilities
- Built-in heavy duty A/C EMI filtering
- Built-in duplexer (optional)
- Built-in RF pre-selector (optional)
- 3 RU tall, built-in rack handles
- 19" Standard rack or cabinet mounting
- Built-in, automatic, heavy duty cooling fan (CPU controlled)
- Powder-coated steel chassis
- Built-in repeater controller
- Utilizes N style bulkhead connectors
- Built-in grounding stud
- Designed for max air cross-flow:
 120 CFM fans for excellent ventilation
- Each unit is thoroughly tuned-tested and staged prior to shipment
- DB-25 rear connector for interfacing external equipment





A large, continuously-running fan on the rear panel keeps the 6.25 DVR running cool. All connections are clear and simple, and well-marked.



1 AF VOLUME CONTROL KNOB

Rotate the knob to adjust the audio output level. • Minimum audio level is pre-programmed.

② LED INDICATOR

- · Lights red while transmitting a signal.
- · Lights green while receiving a signal.

O UP/DOWN KEYS [CH Up] [CH Down]

Push to select an operating channel, etc.

* The desired function can be assigned by your dealer.

POWER SWITCH [POWER]

Push to turn the power ON and OFF.

 Automatic scan start, Password prompt and Set mode access are available at power ON.

5 DEALER-PROGRAMMABLE KEYS

Desired functions can be programmed independently by your dealer.

6 MICROPHONE CONNECTOR

Connection for microphone.

SPECIFICATIONS

GENERAL

Frequency range: F5061 136-174 MHz

> 400-470, 450-512 MHz F6061

Types of emissions:

Wide 16KOF3E 25 kHz Narrow 11KOF3E 12.5 kHz

> 8K10F1E/D 12.5 kHz 4KOOF1E/D 6.25 kHz

Number of channels: Max 512 ch. (128 zones)

Antenna connector: "N" female (50 Ω)

105-130 VAC 50/60 Hz 5A Max Requirements:

185-250 VAC 50/60 Hz

Max. external voltage: 13.8 VDC on battery input terminals

Operating temp. range: -10°C to +45°C (14°F to 113°F)

Intermittent duty cycle: **TIA 603** Dimensions (Projections not included):

480 (W) x 133 (H) x 364 (D) mm;

18.90 (W) x 524 (H) x 14.33 (D) in.

Weight: 8.6 kg; 18 lb

TRANSMITTER

RF output power: 25W

Modulation system: Variable reactance freq. modulation

Max. frequency deviation: ±2.5 kHz [Narrow] ±5.0 kHz [Wide]

Frequency error: ±1.0 ppm Spurious emission: 75 dB typical Adjacent channel power: 60 dB [Narrow]

70 dB [Wide]

Audio harmonic distortion: 3% typical at 1 kHz, 40% deviation

FM hum and noise (typ.): 40 dB[Narrow]

45 dB [Wide]

Limiting character of 70-100% of max deviation modulation

Microphone connector : 8-pin modular (600 Ω)

This repeater has been specified to operate at 25 watts. Operation at higher TX power output may cause damage and will void any applicable warranties.

All specifications are subject to change without notice. Optional duplexer and preselector specifications not listed.

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RECEIVER

Receive system: Double-conversion superheterodyne

Intermediate frequency: 1st: 46.35 MHz, 2nd: 450 kHz

0.25 uV at 12 dB SINAD Sensitivity:

Squelch sensitivity: 0.25 μV TYP

Adjacent channel: 75 dB [Narrow] Selectivity TYP

85 dB [Wide] TYP

Spurious response: 90 dB TYP Intermodulation: 77 dB TYP

Hum and noise: 45 dB [Narrow] TYP 50 dB [Wide] TYP

4W typical at 10% distortion with a

 4Ω load

External SP connector: 2-conductor 3.5 (d) mm $(1/8)^4\Omega$

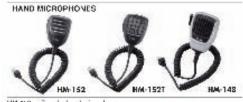
OPTIONS

Audio output power:





Built-in duplexer (left) Built-in RF pre-selector (right).





HM-152 higala handinia sphare.

HW-1521 CTV-matechara

Honory duty dynamic microphone. Some as supplied

Icom America Systems

Systems for People Who Make Smart Choices

2380 116th Avenue NE Bellevue, WA 98004 phone: (425) 586-6363 fax: (425) 586-6321 www.icomamerica.com ias@icomamerica.com



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