



## FTR-2425

### VHF FM DUPLEX BASE STATION AND REPEATER SYSTEM 136 ~ 174MHZ BAND



**ECOM FTR-2425** is a synthesized VHF high band duplex base /repeater system covering 136 ~174 MHz. The radio set has been designed to meet the demands of a professional and commercial user.

The state-of-the-art design provides features that make the unit suitable as a desktop split simplex / duplex base station or a repeater. It is suitable for applications where the radio needs to operate both as a base station, and occasionally as a talk-thru repeater. Variants are available for use as an unattended repeater as well.

The unit can be used with two antennas for receive and transmit - when these are optimally spaced to allow for applicable TX to Rx isolation. Though it is more convenient to use a duplexer for a more reliable operation.

The FTR-2425 has a highly reliable and modular design. It uses two Japanese VERTEX FT-2600MIL transceivers, providing reliable performance from leading Japanese manufacturer of radio equipment. The built-in test (BIT) routines provide reliable operation. The design has built-in growth potential that enables FTR-2425 to be readily configured for a wide variety interfaces.

Frequency selection can either be done in channel only mode or direct frequency mode from the front panel of the radios. The receive and transmit frequencies can be set totally independently in 12.5 KHz or 25 KHz steps in the 136-174 MHz band. The radio operates both on 220VAC mains or 12VDC with automatic switch over. The 12V standby battery provides uninterrupted operation.

### FEATURES

- Covers 136~174 MHz FM (any 24 MHz band segment)
- Channel selection in 25KHz steps
- Open frequency or Channel mode operation.
- Channel Scanning
- Frequency or Channel name display
- 25 Watts Output

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SPECIFICATION <sup>1</sup>	VHF
<b>GENERAL</b>	
Frequency coverage	136 ~ 174 MHz in 25 or 12.5 KHz steps comes in either of these segments 136~160 MHz and 146~174 MHz
Frequency Stability	± 5ppm
Number of channels	Direct Entry of 32 preset
Mode of Operation	16F3 FM
Frequency Control	Microprocessor controlled PLL Synthesized
Display	Frequency Display or Alphanumeric Display
Power Source	12VDC (60W) / 220VAC 50 Hz
Operational Temperature	-15deg C to + 60deg C
Antenna Impedance	50 Ω
Connector	PL-259 Type
Mechanical Package	12W x 6H x 14D inches desktop case or optional 19 inch rack
Weight	<10.5 Kg
<b>FEATURES</b>	
	Channel Scanning
	Busy Channel Lock Out
	Time Out Timer
	CTCSS-Channel Guard Encoder / Decoder
	Optional Multi tone type encoder/decoder
<b>RECEIVER</b>	
Receiver Type	Double Conversion
Sensitivity @ 12db SINAD	<0.35uV
Selectivity (adjacent channel)	> 60db
Intermodulation	> 60db
Spurious Response	> 60db
Audio Output	>4 Watts @ 10% THD
<b>TRANSMITTER</b>	
Transmitter Output	25 Watts
Spurious Emissions	< 60 dB
Hum and Noise	<45db below carrier

<sup>1</sup> FTR-2425 is produced in Pakistan with indigenous sub system and YAESU/VERTEX Japan radios - specifications subject to change without prior notice or obligation

