

# Narrowband VHF Transmitter and Base Station

Eagle Telecom's Narrowband VHF Transmitter supports FCC's 12.5 KHz channel spacing requirement with the frequency accuracy of 10ppb, using Direct Digital Synthesis of up to eight channels. These transmitters are designed to provide greater degree of frequency stability and are ideally suited for simulcast paging. Both digital and voice paging are supported by these transmitters. VHF transmitters range from 100Watt up to 500 Watt RF output.

## Specifications

### VHF Exciter

Frequency Band 150 – 174 MHz  
Frequency Generation Synthesized  
Power Output 400 Milliwatt  
Channels 1 (standard), 4 (optional)  
Channel Spacing 7.5 KHz  
Channel Bandwidth Narrowband (12.5 kHz)  
Emission Designators 11K0F1D, 11K0F3E  
Frequency Stability  $\pm 20$  ppb,  $-30$  °C to  $+60$  °C ambient  
 $\pm 60$  ppb per year, long term aging  
Modulation Analog or Digital  
Modulation Rise Time 61/94/121/182  $\mu$ S, selectable  
Frequency Deviation Analog,  $\pm 2.4$  KHz  
Digital,  $\pm 2.4$  KHz  
Modulator DSP based  
Digital Data Rate 3200 bps  
Audio Response 30 – 3300 Hz,  $\pm 2$ dB flat, reference to 1000 Hz @ 3 KHz deviation  
Audio Distortion  $< 3\%$  @ 3.0KHz Deviation  
Duty Cycle 100% continuous  
Spurious and Harmonics -70 dBc or better  
Adjacent Channel Noise -70 dBc or better  
Operating Temperature  $-30$  °C to  $45$  °C (Full Power)  
Operating Humidity 0 to 95% relative, non-condensing

### General

Power 115 VAC @ 2 Amps  
Dimensions 19" L x 3.5" H x 13.5" W



[Eagle Telecom, Inc.](http://www.eagletelecom.com)

2280 Main Street Suite B3, League City, TX 77573  
Phone: (832) 812-6476  
[www.eagletelecom.us](http://www.eagletelecom.us)

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