

# KENWOOD

## UHF & VHF Conventional Repeater Stations

Kenwood UHF and VHF conventional repeater stations are full featured, high specification units. They are specifically designed for the demanding requirements of public safety, utility or heavy industrial applications where large fleets are supported and continuous duty operation is required. Like all quality Kenwood systems, the TKR-8300, TKR-8400, and the TKR-7400 systems carry a full two year parts and labor factory warranty.

- **Continuous Duty Cycle**
- **Forced Air Cooling**
- **CTCSS/DCS**
- **Wide 25 kHz or Narrow 12.5 kHz operation**
- **Options Include:**
  - Tone or DC control**
  - Battery backup**
  - Trunked operation**
- **Available in several mounting configurations to include racks, 42" and 77" cabinets.**
- **Full line of duplexers/ combiners also available**



# Specifications

	TKR-8300S	TKR-8400S	TKR-7400S
<b>GENERAL</b>			
Frequency Range	450.000 to 480.000 MHz	Type 1: 450.000 to 480.000 MHz Type 2: 480.000 to 512.000 MHz Type 3: 400.000 to 430.000 MHz	Type 1: 146.000 to 162.000 MHz Type 2: 158.000 to 174.000 MHz Type 3: 136.000 to 150.000 MHz
Number of Channels	1 (32 preset)	1 (32 preset)	1 (32 preset)
Channel Spacing			
Wide	25 kHz	25 kHz	30, 25 kHz
Narrow	12.5 kHz (PLL step: 5, 6.25 kHz)	12.5 kHz (PLL channel step: 5, 6.25 kHz)	15, 12.5 kHz (PLL channel setup 2.5, 5, 6.25 kHz)
Input Voltage	115/230 VAC, 47 - 63Hz	115/230 VAC, 47 - 63Hz	115/230 VAC, 47 - 63Hz
Duty Cycle	100%	100%	100%
Dimensions (short cabinet)	42-1/2"H x 22"W x 24"D	42-1/2"H x 22"W x 24"D	42-1/2"H x 22"W x 24"D
Mounting Options	Cabinet or rack	Cabinet or rack	Cabinet or rack
Weight (cabinet)	Depending on configuration	Depending on configuration	Depending on configuration
Temperature Range	-30°C to +60°C (-22°F to +140°F)	-30°C to +60°C (-22°F to +140°F)	-30°C to +60°C (-22°F to +140°F)
<b>RECEIVER</b>			
Sensitivity			
12db SINAD	0.3 µV	0.3 µV	0.3 µV
Selectivity			
Wide	90 dB	90 dB at ± 25, 50 kHz	95 dB at ± 30 kHzdB
Narrow	82 dB	82 dB at ± 12.5 kHz dB	89 dB at ± 15 kHz 87 dB at ± 12.5 kHz
Spurious and Image Rejection	100 dB	100 dB	100 dB
Intermodulation			
Wide	85 dB at ± 25, 50 kHz	85 dB at ± 25 kHz	90 dB at ± 30, 60 kHz
Narrow	80 dB at ± 12.5, 25 kHz	80 dB at ± 12.5, 25 kHz	85 dB at ± 15, 30 kHz
Frequency Stability	± 0.00015%	± 0.00015%	± 0.00015%
Audio Output (Ext. Speaker)	4 W	4 W	4 W
Audio Distortion	< 2%	< 2%	< 2%
RF Input Impedance	50 Ω	50 Ω	50 Ω
<b>TRANSMITTER</b>			
RF Power Output	Depending on configuration	Depending on configuration	Depending on configuration
Frequency Stability	± 0.00015%	± 0.00015%	± 0.00015%
RF Output Impedance	50 Ω	50 Ω	50 Ω
Type of emission:			
Wide	16KOF3E	16KOF3E	16KOF3E
Narrow	11KOF3E	11KOF3E	11KOF3E
Spurious and Harmonics	70 dB	70 dB	70 dB
FM Hum and Noise			
Wide	55 dB	55 dB	55 dB
Narrow	50 dB	50 dB	50 dB
Audio Distortion	< 2%	< 1%	< 0.5%