



TKR-D710/D810

VHF/UHF Digital Repeater

DMR

► GENERAL FEATURES

- 136 - 174 MHz, 5 - 50 W
- 400 - 470 MHz, 5 - 40 W
- Repeater Operation
- Two-Digit LED Display
- 6 Lighted Programmable Function Keys
- Programmable AUX I/O's
- RF Power Down Detect
- DTMF Front Panel PF Key Control (Analogue Only)
- DTMF AUX Output Control (Analogue Only)
- DTMF AUX Input Monitoring (Analogue Only)
- Windows® PC Programming
- Flash Firmware Upgrading

► DIGITAL – CONVENTIONAL MODE

- DMR Digital Air Interface
- 12.5 kHz Channels
- Mixed FM / Digital Operation
- Repeater Control Built-in
- 1 Color Code Repeater Control Built-in
- Conventional IP Network (Future Update)
- Console Interface (Future Update)
- AMBE+2™ VOCODER (Future Update)

► FM MODES – GENERAL

- VHF: 25 & 12.5 kHz Channels
- UHF: 25 & 12.5 kHz Channels

► FM CONVENTIONAL MODE

- 16 QT / DQT Repeater Control Built-in
- Hang Timer



Main Specifications

		TKR-D710E	TKR-D810E
GENERAL			
Frequency Range		136 - 174 MHz	400 - 470 MHz
Channel Spacing	Analogue		12.5 / 25 kHz
	Digital		12.5 kHz
PLL Channel Step		2.5 / 3.125 kHz	3.125 / 5 kHz
Current Drain	Standby		0.5 A
	Receive		1.0 A
	Transmit		11.0 A
TX Power	50% Duty	50W	40W
	100% Duty	25W	25W
Frequency Stability		± 1.0 ppm	
Operating Voltage		13.2 V DC (10.8 - 15.6 V DC)	
Operating Temperature Range		-30° C to +60° C	
Antenna Impedance		50 Ω	
Dimensions (W x H x D), Projections not included		483 x 88 x 340 mm	
Weight (net)		9.7 kg	
RECEIVER			
Sensitivity (Digital) (12.5kHz)	3% BER	0.28 μV (TBD)	
	1% BER	-4 dBμV (0.32 μV) (TBD)	
Sensitivity (Analogue)	12dB SINAD	0.28 μV	
	20dB SINAD	-3 dBμV (0.35 μV)	
Adjacent Channel Selectivity (Analogue)*1 (25 kHz / 12.5kHz)		83 dB / 77 dB	80 dB / 74 dB
FM Hum & Noise (Analogue)	25 kHz / 12.5 kHz	55 dB / 50 dB	
Intermodulation		72 dB	
Spurious Response Rejection		85 dB	
Audio Distortion (Ext. Speaker)		Less than 2.5% at 1000 Hz	
Audio Output (Ext. Speaker)		4 W (at 4 Ω, less than 5% distortion)	
TRANSMITTER			
RF Power Output		5 W to 50 W	5 W to 40 W
Modulation Limiting (Analogue)	25 kHz / 12.5 kHz	±5.0 kHz / ±2.5 kHz	
Spurious Emission		- 36 dBm ≤ 1 GHz, -30 dBm > 1 GHz	
FM Noise (EIA) (Analogue)	25 kHz / 12.5 kHz	55 dB / 50 dB	
Modulation Distortion		Less than 1% at 1000 Hz	
Modulation		16K0F3E, 8K50F3E, 14K0F2D, 7K50F2D, 7K60FXD, 7K60FXE	

Analogue measurements made per EN 300 086 and 113.

Digital measurements made per EN 300 113 and EN301 166.

Specifications shown are typical.

Kenwood follows a policy of continuous advancement in development.

For this reason specifications may be changed without notice.

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