

TKR-D710/D810

DMR

VHF/UHF DIGITAL REPEATER

● GENERAL FEATURES

- 136 - 174 MHz, 50 - 5 W
- 450 - 520 MHz, 40 - 5 W
- 400 - 470 MHz, 40 - 5 W
- Repeater Operation
- Two-Digit LED Display
- 6 Illuminated Programmable Function Keys
- Programmable AUX I/O's
- RF Power Down Detect
- DTMF Front Panel PF Key Control (Analog Only)
- DTMF AUX Output Control (Analog Only)
- DTMF AUX Input Monitoring (Analog 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*¹
- AIS IP console interface*¹, *²
- AMBE+2™ VOCODER
- Number of Channel 16

● FM MODES – GENERAL

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

● FM CONVENTIONAL MODE

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

*¹: Requires Interface Box KT-5 installed with the IP Network Software.

*²: AIS stands for Application Interface Standard, which is a voice/data communications protocol set by the DMR Association.

KT-5
INTERFACE BOX



SPECIFICATIONS

		TKR-D710	TKR-D810
GENERAL			
Frequency Range	Type 1 Type 2	136-174 MHz —	450-520 MHz 400-470 MHz
Channel Spacing	Analog Digital	25*/12.5 kHz 12.5 kHz	
Current Drain	Standby Receive Transmit	0.5 A 1.0 A 11.0 A	
TX Power	50 % Duty 100 % Duty	50 W 25 W	40 W 25 W
Frequency Stability		± 1.0 ppm	
Operating Voltage		13.6 V DC ± 15 %	
Operating Temperature Range		-22° F to +140° F (-30° C to +60° C)	
Antenna Impedance		50 Ω	
Dimensions (W x H x D)	Projections not included	19 x 3-1/2 x 13-1/3 in (483 x 88 x 340 mm)	
Weight (net)		21.4 lbs (9.7 kg)	
FCC ID	Type 1 Type 2	K44422300 —	K44452500 K44452501
IC Certification	Type 1 Type 2	282F-422300 —	— 282F-452501

*25 kHz is not included in the models sold in the USA or US territories.
Measurements made per CAI measurement procedures (digital) and TIA-603 (analog); specifications are typical.
Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

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Windows® is a registered trademarks of Microsoft Corporation.

		TKR-D710	TKR-D810
RECEIVER			
Sensitivity (Digital) (12.5kHz)	3% BER 1% BER	0.28 μV -4 dB μV (0.32 μV)	
Sensitivity (Analog)	12 dB SINAD	0.28 μV	
Adjacent Channel Selectivity (Analog)*1 (25 kHz / 12.5 kHz)		83 dB / 77 dB	80 dB / 74 dB
FM Hum & Noise (Analog)	25 kHz / 12.5 kHz	55 dB / 50 dB	
Intermodulation		80 dB	
Spurious Response Rejection		90 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		50-5 W	40-5 W
Modulation Limiting (Analog)	25 kHz / 12.5 kHz	± 5.0 kHz / ± 2.5 kHz	
Spurious Emission		80 dB	
FM Noise (EIA) (Analog)	25 kHz / 12.5 kHz	55 dB / 50 dB	
Modulation Distortion		Less than 1 % at 1000 Hz	
Modulation		16K0F3E, 11K0F3E, 7K60FXD, 7K60FXE	

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