

# 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
- Call Interruption

#### ● 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 KTI-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.

**KTI-5**  
INTERFACE BOX



## SPECIFICATIONS

		TKR-D710	TKR-D810
<b>GENERAL</b>			
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	50 W	40 W
	100 % Duty	25 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
<b>RECEIVER</b>			
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)* <sup>1</sup> (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)	
<b>TRANSMITTER</b>			
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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