



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.





SPECIFICATIONS

		TKR-D710	TKR-D810
GENERAL			
Frequency Range	Type 1	136-174 MHz	450-520 MHz
	Type 2	-	400-470 MHz
Channel Spacing	Analog	25*/12.5 kHz	
	Digital	12.5 kHz	
Current Drain	Standby	0.5 A	
	Receive	1.0 A	
	Transmit	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		-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	

*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 typic
Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

AMBE+2" is a trademark of Digital Voice Systems Inc.
Windows is a registered trademarks of Microsoft Corporation.

		TKR-D710	TKR-D810	
RECEIVER				
Sensitivity (Digital)	3% BER	0.28 μV		
(12.5kHz)	1% BER	-4 dB μV (0.32 μV)		
Sensitivity	ensitivity 12 dB SINAD		0.28 μV	
(Analog)	20 dB SINAD	3dB dB μV (0.35 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		

