

## Compact Synthesized FM Two-Way Radio

450—470MHz

The KENWOOD TK-806DL UHF compact synthesized dash-mount mobile radio is specifically designed to deliver maximum performance and operating convenience in an ultra-compact package greater than ever before!

The inherent strength of die-cast chassis construction, the use of only the highest quality parts and sub-assemblies, the basic design utilizing the latest technology in solid-state electronics and microprocessors, coupled with a rigid adherence to the most demanding quality control standards in production, assure the ultimate in product performance and reliability.

The KENWOOD TK-806DL meets the market demands of compact mobile radios in quality, ruggedness, and flexibility of application.

**[Features and Benefits]****Ultra-Compact and Lightweight**

Measures only 140 (5.51)W × 40 (1.58)H × 113 (4.45)D mm (inch) and weighs only 0.9 kg (1.98 lbs) for maximum flexibility of installation. Fits anywhere in the vehicle.

**Die-Cast Chassis Heatsink Construction**

The final amplifier stage of the TK-806DL is mounted directly on its die-cast heatsink for maximum thermal conduction efficiency. High-impact molded front panel and metal covers provide lasting beauty plus extra protection for electronic circuitry.

**Synthesized Two-channel (Semi-Duplex)**

Synthesized channel frequency generation provides two semi-duplex channels. The state-of-the-art synthesized design provides maximum flexibility.

**Wideband Channel Frequency Spread**

The design of the radio enables the transmitter and the receiver to spread 20 MHz on UHF. This feature allows maximum flexibility in system designs involving multiple channel operations.

**Heavy-Duty Professional Microphone**

The ruggedly built, high-quality microphone is designed with a telephone-style connector and heavy-duty cable to protect against failure.

**High-Performance Receive/Transmit Design**

Outstanding sensitivity, selectivity, and reliability assure dependable communications under the most severe operating conditions.

**Built-In Time-Out-Timer and Busy Channel Lock-Out**

Programmable time-out-timer and busy channel lock-out improve system operating efficiency, especially in a large multi-user system.

**Cloning Flexibility**

Cloning from mobile to mobile may be easily accomplished using a standard microphone cable. This assures quick and flexible dealer support.

**Built-in DQT and QT Tone Coded Squelch**

Built-in DQT "Digital Quiet-Talk" and QT (EIA and Motorola tone) continuous tone coded squelch circuits eliminate unwanted signals from other parties using same channel. You hear only those messages directed to your DQT or QT tone frequency. A multiple tone capability per channel allows maximum flexibility in channel coordination. Squelch tail elimination is also built-in.

**Easy-to-Operate Pre-set squelch with ON/OFF switch**

Pre-set squelch with ON/OFF switch on the front panel provides user friendly operation.

**High Quality Speaker**

The high quality speaker with four watts of receiver audio output reproduces the sound with outstanding clarity.

**Two Year Warranty on Parts and Labor**

# TK-806DL OPTIONS and BENEFITS:



**KPS-10A  
DC Power Supply**  
The KPS-10A is a regulated DC power supply designed to provide a reliable base station operation. (10 A)



**KES-3  
External Speaker**



**KMC-9  
Base Microphone**



**KMC-2A  
Noise Cancelling  
Microphone**



**KLF-2  
Line Filter**  
To suppress alternator whine, 25 dB attenuation, 25 A.



**KMB-10  
Key Lock  
Adapter**



## PERFORMANCE SPECIFICATIONS

### (GENERAL)

Frequency Range: 450~470 MHz  
 Number of channels: 2 semi-duplex channels  
 Channel Spacing: 25 kHz (PLL channel step 12.5 kHz)  
 Input Voltage: 13.6 V DC negative ground  
 Current Drain: 0.3 A on standby  
 0.7 A on receive  
 6.0 A on transmit  
 Duty Cycle: Receiver 100%, Transmitter 20%  
 Temperature Range: -30°C to +60°C (-22°F to +140°F)  
 Dimensions & Weight: 140 (5.51) W x 40 (1.58) H x 113 (4.45) D mm (inch)  
 With projection: 141 (5.55) W x 52.5 (2.07) H x 128 (5.04) D mm (inch)  
 0.9 kg (1.98 lbs.)

### (RECEIVER)

(Measurements made per EIA standard EIA-204-C)  
 RF Input Impedance: 50 Ω  
 Sensitivity:  
     EIA 12 dB SINAD 0.2 μV  
     20 dB Quieting 0.3 μV  
 Squelch Sensitivity: 0.25 μV threshold  
 Modulation Acceptance: ±7 kHz  
 Selectivity: -80 dB  
 Intermodulation: -75 dB  
 Spurious and Image Rejection: -85 dB  
 Audio Power Output: 4 watts at 4 Ω less than 5% distortion  
 Frequency Stability: ±0.0005% from -30°C to +60°C  
 Channel Frequency Spread: 20 MHz

### (TRANSMITTER)

(Measurements made per EIA standard EIA-152-B)  
 RF Power Output: 10 watts adjustable to 2 watts  
 RF Output Impedance: 50 Ω  
 Spurious and Harmonics: -75 dB  
 Modulation: F3E, ±5 kHz for 100% at 1000 Hz  
 FM Noise: -50 dB  
 Microphone impedance: Low impedance  
 Audio Distortion: 1% at 1000 Hz  
 Frequency Stability: ±0.0005% from -30°C to +60°C  
 Channel Frequency Spread: 20 MHz

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