

KENWOOD

TKB-720

VHF DESK-TOP BASE RADIO

150-174MHz

The KENWOOD TKB-720 VHF desk-top base radio meets the demands of the land mobile radio market for quality, ruggedness and flexibility of application. The TKB-720 utilizes a heavy-duty die-cast chassis, modular construction, and high quality parts and sub-assemblies to maximize performance. Its basic design incorporates solid-state electronics and microprocessors. And, best of all, the KENWOOD model TKB-720 land mobile radio carries a two-year warranty on parts and labor.

[Features & Benefits]

Synthesized Channel Capacity

The state-of-the-art synthesized design with use of an E²PROM not only provides maximum versatility but also allows the dealer to add up to 9 channels quickly and inexpensively.

High RF Output Power (50 Watts)

A powerful 50 watts of RF output power assures reliable communications even in the most demanding of environments.

Easy-to-Operate, Compact Desk-Top Design

KENWOOD's compact package offers simplicity and rugged mechanical construction to insure maximum operation flexibility.

High-performance Receive/Transmit Design

Superior selectivity and sensitivity assure reliable communications in all environments, from high-density metropolitan locations to long distance requirements typical of many rural areas. High-frequency accuracy and stability are assured by use of a TCXO (Temperature Compensated Crystal Oscillator).

Broad Choice of Signalling Options

KENWOOD offers various easy-to-install optional signalling units for the TKB-720 including field programmable multiple tone for QT and Digital QT (DQT).

Heavy-Duty Internal Die-Cast Chassis and Modular Construction

The heavy-duty internal die-cast chassis and die-cast heatsink are coupled with a modular construction to provide maximum reliability and shielding.

Large Heatsink Allows Heavy Duty Cycle

The final amplifier is mounted on a large heatsink which provides maximum thermal conduction efficiency. KENWOOD's superior design allows the base radio to run in the heavy duty cycle.

Wideband Channel Frequency Spread

The design of the radio enables the transmitter to spread 7 MHz and the receiver to spread 4 MHz. This feature allows maximum flexibility in system designs involving multiple channel operations.

Easy-To-Read High Visibility LED Display

The amber colored LED display (with automatic dimmer circuit) offers easy readability of operating channels both day and night. The front panel "TX" and "BUSY" indicators permit quick and easy identification of current operating status.

Easy-To-Operate Front Panel Layout

Human engineered for ease of operation.

Front Mounted High Quality Speaker

The front mounted high quality speaker allows use of a full four watts of receiver output, assuring loud, clear sound.

Accessories

Accessory terminal allows the dealer to connect dealer optional accessories.

Two-Year Warranty on Parts and Labor

Each KENWOOD TKB-720 carries a factory-backed two-year warranty on parts and labor. Accessories (including rechargeable batteries) carry a one-year warranty. A copy of the warranty is included with each radio. Your KENWOOD dealer can supply a copy of this warranty for your inspection upon request.

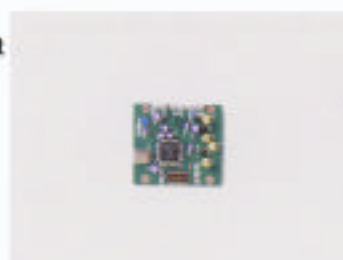


TKB-720/OPTIONS and BENEFITS:



**KMC-9
Base Microphone**
The KMC-9 is a stand type microphone designed for a base station use.

**QOT-7
QT Tone Coded Squelch Unit**
Dip switch programmable single QT tone.



**KMS-5
Digital QT and QT Tone Coded Squelch**
Field programmable multiple tone for QT (EIA and Motorola tone) and Digital QT. Squelch tail elimination, time-out-timer, busy channel lockout.



*Not all accessories may be available, please contact dealers for details.

PERFORMANCE SPECIFICATIONS

(GENERAL)

Frequency Range: 150~ 174 MHz
 Number of Channels: 9 semi-duplex channels (Modifiable to 16 semi-duplex channels)
 Channel Spacing: 30 kHz (PLL channel step 5 kHz)
 Input Voltage: 120 VAC 50/60 Hz
 Power Consumption: 230 watts maximum (transmit)
 Duty Cycle: Receiver 100%, Transmitter 50% (50 watts)
 Temperature: -30°C to +60°C (-22°F to +140°F)
 Dimensions & Weight: 4.72" (120 mm) H x 12.99" (330 mm) W x 15.08" (383 mm) D
 27.56 lbs (12.5 kg)
 Compliance: FCC Parts 22, 74 and 90
 FCC ID: ALH9TKTB-720-1 (150~ 174 MHz)

(RECEIVER)

(Measurements made per EIA standard EIA-204-C)
 RF Input Impedance: 50 Ω
 Sensitivity: EIA 12 dB SINAD 0.35 μV
 20 dB Quieting 0.45 μV
 Squelch Sensitivity: 0.2 μV threshold
 Modulation Acceptance: ±7 kHz
 Selectivity: -85 dB
 Intermodulation: -80 dB
 Spurious and Image Rejection: -90 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: 4 MHz

(TRANSMITTER)

(Measurements made per EIA standard EIA-152-B)
 RF Power Output: 50 watts adjustable to 20 watts
 RF Output Impedance: 50 Ω
 Spurious and Harmonics: -80 dB
 Modulation: F3E, ±5 kHz for 100% at 1000 Hz
 Direct FM modulation
 FM Noise: -50 dB
 Microphone Impedance: Low impedance
 Audio Distortion: Less than 3% at 1000 Hz
 Frequency Stability: ±0.0005% from -30°C to +60°C
 Channel Frequency Spread: 7 MHz

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**ISO 9001
JQA-1205**

Communications Equipment Division
 Kenwood Corporation
 ISO9001 certificate