

# KENWOOD

# TKM-707

## SSB Radiotelephone

**Now Meets 27.5 MHz  
U.S.C.G. Requirement**

The TKM-707 is a high performance SSB Radiotelephone designed to meet the stringent demands of the marine market in quality, and ruggedness. The TKM-707 utilizes a heavy duty rustproof aluminum chassis and the highest quality parts to maximize performance.

### [Features and Benefits]

#### 150 Watt RF Output Power

The TKM-707 provides a full 150 watts peak-to-peak RF output power from a compact package.

#### 2 MHz to 23 MHz Marine Band Operation with 500 kHz to 30 MHz General Coverage Receiver

Covers all Marine bands from 2 MHz to 27.5 MHz. The general coverage receiver covers from 500 kHz to 30 MHz.

#### 198 Memory Channel Capability Including Selected 195 Preprogrammed ITU Channels

Selected 150 memory channels may be factory preprogrammed. Another 62 memory channels are user-programmable.

#### Large Efficient Cooling System

The high efficiency cooling system allows continuous transmission at full power output for periods exceeding hours.

#### Multi-Scanning

The TKM-707 includes dial scan and memory scan.

**VFO scan:** Scans between 500 kHz and 30 MHz.

**Memory scan:** Scans the selected 10 channels.

**ITU scan:** Scans all ITU channels.

#### 2182 kHz Emergency Alarm Built-In

The "2182" key allows instant operation on 2182 kHz emergency alarm.

#### Dual Mode Noise Blanker ("Pulse" or "Woodpecker")

The noise blank consists of two circuits NB-1 and NB-2, each activated by "NB" front panel key. NB-1 is most effective in suppressing pulse-type noise. NB-2 is most effective in suppressing noise of a long duty cycle nature, such as the so-called "woodpecker" type interference.

#### Voice Squelch Circuit

The audio squelch circuit is effective in suppressing background noise.

#### Selectable Power Output (High/Medium/Low)

The power output is adjustable from High/Medium/Low.

#### High Stability Frequency Control

The TKM-707 uses a microcomputer controlled circuit that ensures super-stable transmitted signals at all time.

#### All-Mode Operation

Modes of operation include SSB, and AM. (H3E)

#### Large, Multi-Function LCD Display

A large, multi-function liquid crystal display (LCD) provides optimum readability in bright sunlight or after dark. It includes 6-digit frequency, memory channel number, mode, "TX", "RX" and S & RF meter.

The "DIMMER" key controls display brightness in 4 steps.

#### Built-In Clarifier

The front panel "CLARIFIER" control is used to "fine tune" the receiver.

#### Rustproof Aluminum Chassis and Stainless Steel Screws

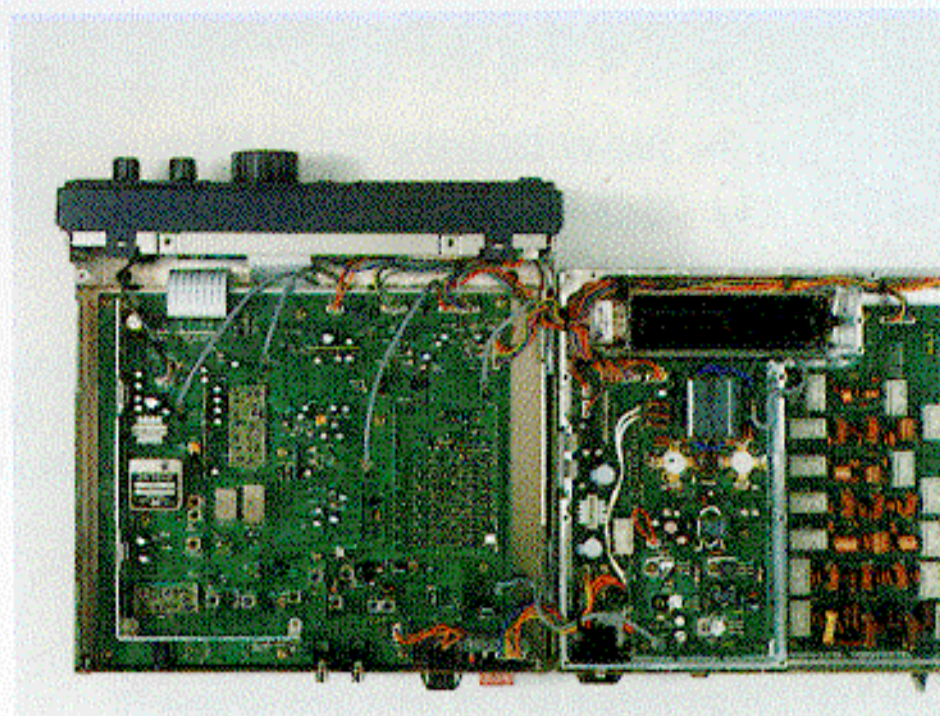
The Aluminum chassis and stainless steel screws reduce the possibility of damage due to rust and corrosion rusting conditions.

#### Automatic Antenna Tuner Control Function





# TKM-707/OPTIONS and BENEFITS:



KAT-1: Automatic Antenna Tuner



**ISO 9001**  
**JQA-1205**

## PERFORMANCE SPECIFICATIONS

### (General)

Frequency Range:	TX: 2.0~2.9999 MHz 4.0~4.9999 MHz 6.0~6.9999 MHz 8.0~8.9999 MHz 12.0~12.9999 MHz 16.0~16.9999 MHz 22.0~27.4999 MHz
Mode:	RX: 500kHz~29.9999 MHz J3E (SSB) H3E (AM)
Operating Temperature:	-30°C~+60°C
Input Voltage:	13.6 VDC ± 15% Negative grounding
Current Drain:	RX max = Less than 2 A TX max = Less than 30 A
Dimensions:	10.63 (270)W x 3.78 (96)H x 10.67 (271)D inches(mm)
Weight:	11.46 lbs. (5.2 kg)
Frequency Stability:	Within ± 20 Hz (-30°C~+50°C)
Antenna Impedance:	50 Ω
FCC Type Acceptance Number	ALHTKM-707
DOC Type Number	282 811 119 LVC

### (Receiver)

Circuitry:	Double conversion system
Intermediate Frequency:	1st IF = 71.295 MHz 2nd IF = 10.695 MHz
Sensitivity:	SSB = 12 dB SINAD less than 1.0 μV(500 kHz~2 MHz) less than 0.5 μV(2 ~ 30 MHz) AM = 12 dB SINAD less than 5.6 μV(500 kHz~2 MHz) less than 2.8 μV(2~30 MHz)
Spurious Response:	More than 70 dB
Selectivity:	SSB = More than -6 dB (2.35 kHz) Less than -60 dB (4.6 kHz) AM = More than -6 dB (6.0 kHz) Less than -60 dB (20 kHz)
Clarifier Variable Range:	± 250 Hz (10 Hz step)
Audio Output:	More than 4 W(4 Ω 10% distortion)
Audio Load Impedance:	4 Ω

### (Transmitter)

RF Power Output:	150 WPEP
Unwanted Sideband Suppression:	Less than -55 dB below PEP
Carrier Suppression:	SSB = Less than -46 dB below PEP AM = -3 dB ~ -6 dB below PEP
Microphone Impedance:	600 Ω

KENWOOD COMMUNICATIONS CORPORATION  
AMATEUR RADIO PRODUCTS GROUP  
P.O. Box 22745, 2201 E. Dominguez St., Long Beach, CA 90801-5745, U.S.A.  
Customer Support/Brochures (310) 639-5300  
KENWOOD ELECTRONICS CANADA INC.  
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8  
97MPD-1586