

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.

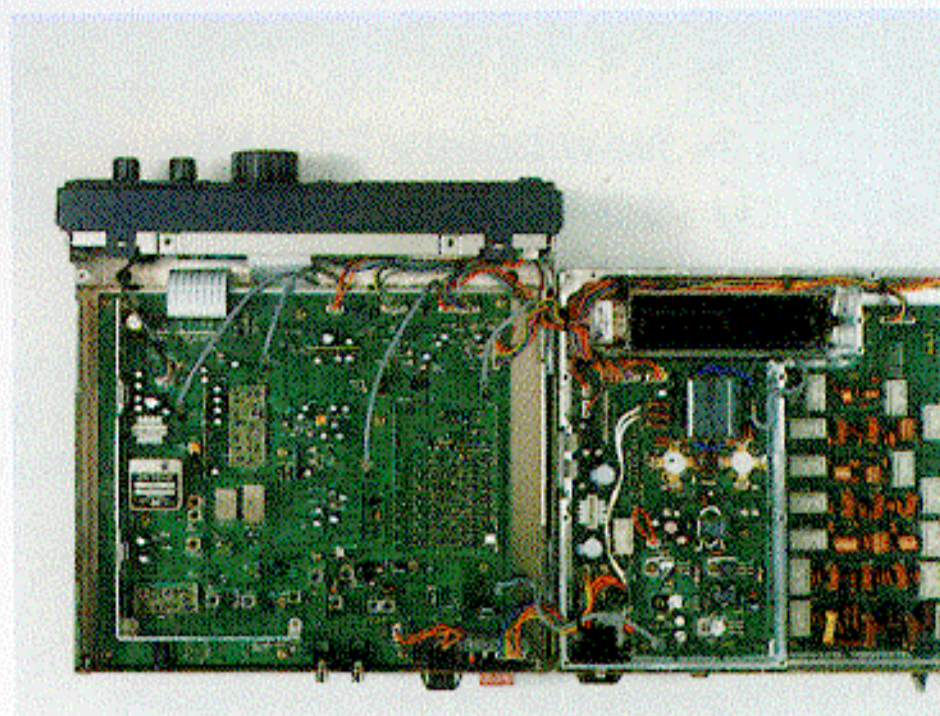
Rustproof Aluminum Chassis and Stainless Steel Screws

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

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