KENWOOD

TK-2207/3207

Compact VHF/UHF FM Portable Radios

Kenwood's compact TK-2207/3207 transceiver, based on a proven design, represents ergonomic excellence. Pick one up and you'll immediately appreciate how easy it is to use. Powerful too, offering priority scan, built-in VOX, a voice scrambler and numerous other features. Plus you can count on reliable performance in all conditions, thanks to MIL-STD 810 & IP54/55 weather-proofing. Indoors or out, rain or shine, the smart new TK-2207/3207 is a star performer!

COMPACT DESIGN

The TK-2207/3207's rounded ergonomic contours naturally fit the hand for a comfortable hold, while the non-slip elastomer channel knob with improved torque characteristics ensures positive select operation.

PRIORITY SCAN & TALK BACK

Scanning is a simple way to monitor multiple channels and the TK-2207/3207 (16-channel capacity) offers both standard and priority scan modes. Talk Back allows immediate response to a received call without having to manually search or change channels.

VOICE GUIDE

A synthesized Voice Guide feature can automatically "read out" (in English) the selected channel number; it can also be used when scanning. This eyes-free user interface adds a new dimension for portables worn on a belt, in a pocket or in dimly lit environments. Also, you are less likely to miss a call as a result of an accidental channel change.

INTERNAL VOX/HANDS FREE READY

Enjoy the convenience of hands-free operation using the optional KHS-21 or KHS-1 headset accessory. The internal VOX (voice-operated transmission) provides PTT control with the simple act of talking. VOX is great for specialized tasks and events where hands-free, constant or repetitive communications are necessary (10-level sensitivity adjustment).

BUILT-IN VOICE SCRAMBLER

A voice-inversion scrambler provides basic communications security against casual eavesdropping. It can also be used to ensure confidential communications with TK-2160/3160 transceivers.

FleetSync™ PTT ID & SELCALL

The TK-2207/3207 uses Kenwood's FleetSync™ PTT ID protocol to identify units to a FleetSync™-capable dispatch operation. Alternatively, the PTT ID function can be set per channel to encode one of eight Fleet List ID's for selective calling of groups or individual units.

QT/DQT/DTMF

The industry standard tone/code squelching formats QT and DQT provide system access and group segregation on shared frequencies. DTMF PTT ID is included for dispatch operations or for a simple remote control application. The DTMF decode capabilities include a selective call ID, transpond with ID, "wild card" group calling and radio stun. Both selective calling formats (FleetSync™ and DTMF) have call alert tones and LED indications.

PROGRAMMABLE FUNCTION KEYS

The two side PF Keys are programmable for any of the many functions available on the TK-2207/3207, permitting a customized fit for specific users.

OPTIMUM AUDIO

Clear audio means confident communications. The TK-2207/3207 is equipped with a large speaker offering a full half-watt of audio output, while tailored response characteristics provide optimum clarity even in noisy environments.

14-HOUR BATTERY PACK

The standard KNB-29N Ni-MH 14-hour* pack offers extended power in a compact, lightweight design.

**Battery life is based on a 5% transmit / 5% receive / 90% standby duty cycle.*

TOUGH & WATER RESISTANT

Built tough to take rough treatment in stride, the TK-2207/3207 has passed the advanced IP54/55 and MIL-STD 810 "blowing rain" water resistance tests. It also meets or exceeds 11 other stringent MIL-STD 810 C/D/E/F environmental standards. Whatever the weather, the TK-2207/3207 is ready to answer the call.

OTHER FEATURES

- Key Lock
- Wireless clone
- Selectable microphone sensitivity (2-level FPU set)

Options

KNB-29N
Ni-MH Battery Pack (1,500mAh)

KSC-31
Rapid Charger (3H)

KRA-22
VHF Low Profile Helical Antenna

KRA-23
UHF Low Profile Helical Antenna

KRA-26
VHF Helical Antenna

KRA-27
UHF Whip Antenna

KMC-17
Speaker Microphone

KMC-21
Compact Speaker Microphone

KHS-1
Head Set with VOX/PTT

KHS-21
Head Set

KBH-10
Belt Clip

KWR-1
Water Resistant Bag

All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Specifications

	TK-2207	TK-3207
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-490MHz
Number of Channels	16	
Channel Spacing		
Wide/Narrow	25kHz/12.5kHz	
Channel Step	5, 6.25kHz	
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle with battery saver off)		
with KNB-29N (1500mAh)	Approx. 14 hours	
Operating Temperature Range	-30°C ~ +60°C	
	-10°C ~ +60°C when KNB-29N in use	
Frequency Stability	±2.5ppm (-30°C ~ +60°C)	
Antenna Impedance	50Ω	
Channel Frequency Spread		
Type 1	38MHz	40MHz
Dimensions (W x H x D), Projections not Included		
Radio Only	54 x 122 x 21.1 mm	
with KNB-29N	54 x 122 x 33 mm	
Weight (net)		
Radio Only	160 g	
with KNB-29N	360g	

	TK-2207	TK-3207
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70dB/60dB	
Intermodulation Distortion		
Wide/Narrow	65dB/60dB	
Spurious Response	65dB	60dB
Audio Output	500mW with less than 10% distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		
High/Low	5W/1W	4W/1W
Spurious Response	65dB	
Modulation		
Wide/Narrow	16KØF3E/11KØF3E	
FM Noise		
Wide/Narrow	45/40dB	
Audio Distortion	Less than 5%	

Kenwood reserves the right to change specifications and features without prior notice.
FleetSync™ is a trademark of Kenwood Corporation.

Applicable MIL-STD

Military Standards	Methods/Procedures MIL-STD 810C	Methods/Procedures MIL-STD 810D	Methods/Procedures MIL-STD 810E	Methods/Procedures MIL-STD 810F
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV

**Rain (Drip/Blowing Rain): assumes that the supplied accessory jack cover or a Kenwood audio accessory is installed.*

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ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification