

KENWOOD

TK-2202/3202

Compact VHF/UHF FM Portable Radios

Kenwood's compact TK-2202/3202 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: equipped with priority scan, built-in VOX and a voice scrambler, it offers reliable performance in all conditions, thanks to MIL-STD 810 & IP54/55 environmental specifications. Indoors or out, rain or shine, the smart new TK-2202/3202 is a star performer!



COMPACT DESIGN

The TK-2202/3202's rounded ergonomic contours naturally fit the hand for a superbly comfortable hold, while the non-slip elastomer channel knob with improved torque characteristics ensures positive select operation.

INTERNAL VOX/HANDS FREE READY

Enjoy the convenience of hands-free operation using any optional 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).

PRIORITY SCAN & TALK BACK

Scanning is a simple way to monitor multiple channels and the TK-2202/3202 (8-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.

BUILT-IN VOICE SCRAMBLER

A voice inversion-scrambling feature provides basic communications security against casual eavesdropping (compatible with the scrambler technology featured in the TK-2160/3160 transceivers).

FleetSync® PTT ID & SELCALL

The TK-2202/3202 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.

PROGRAMMABLE FUNCTION KEYS

The two side keys are programmable for any of the many functions available on the TK-2202/3202, permitting a customized fit for specific users.

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 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.

OPTIMUM AUDIO

Clear audio means confident communications. The TK-2202/3202 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-2202/3202 has passed the advanced IP54/55 and MIL-STD 810 "blowing rain" water intrusion tests. It also meets or exceeds 11 other stringent MIL-STD 810 C/D/E/F environmental standards. Whatever the weather, the TK-2202/3202 is ready to answer the call.

OTHER FEATURES

- Key Lock
- Wireless clone
- Selectable microphone sensitivity (2-level FPU set)
- Voice Guide (English only)

Options

<p>■ KNB-29N Ni-MH Battery Pack (1500 mAh)</p> 	<p>■ KRA-26 VHF Helical Antenna</p> 	<p>■ KEP-2 Earphone Kit for KMC-17/21 (2.5mm plug)</p> 	<p>■ KHS-22 Single Speaker Behind-the-head headset with in-line PTT</p> 
<p>■ KSC-31 Rapid Charger (3H)</p> 	<p>■ KRA-27 UHF Whip Antenna</p> 	<p>■ KHS-7A Single Muff Head Set w/In-line PTT</p> 	<p>■ KHS-23 Earbud Headset with PTT</p> 
<p>■ KMB-21 Six Unit Charger Adapter (for six KSC-31 chargers; chargers not included)</p> 	<p>■ KMC-17 Speaker Microphone</p> 	<p>■ KHS-8BL 2-wire Palm Mic with Earphone (Black)</p> 	<p>■ KBH-10 Belt Clip</p> 
<p>■ KRA-22 VHF Low Profile Helical Antenna</p> 	<p>■ KMC-21 Compact Speaker Microphone</p> 	<p>■ KHS-9BL 3-wire Lapel Mic with Earphone (Black)</p> 	<p>■ KLH-121 Heavy Duty Leather Case</p> 
<p>■ KRA-23 UHF Low Profile Helical Antenna</p> 			<p>■ KLH-3SW Swivel Belt Loop</p> 

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

Model	TK-2202	TK-3202
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-490 MHz
Number of Channels	8	
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5, 15kHz	25kHz/12.5kHz
Channel Step	2.5, 5, 6.25, 7.5kHz	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	-22°F ~ +140°F (-30°C ~ +60°C) [-14°F ~ +140°F (-10°C ~ +60°C) when KNB-29N in use]	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50Ω	
Channel Frequency Spread		
Type 1	38MHz	40MHz
Dimensions (W x H x D), Projections not Included		
Radio Only	2.13" x 4.8" x 0.83" (54 x 122 x 21.1mm)	
with KNB-29N	2.13" x 4.8" x 1.30" (54 x 122 x 33mm)	
Weight (net)		
Radio Only	5.6oz (160g)	
with KNB-29N	12.7oz (360g)	
FCC ID		
Type 1	ALH36913210	ALH36923210
FCC Compliance		
Type 1	Parts 22/74/90	Parts 22/74/90/95
IC Certification		
Type 1	282D-36913210	282D-36923210

Model	TK-2202	TK-3202
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 registered trademark of Kenwood Corporation in the United States and/or other countries.

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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