

# KENWOOD

Listen to the Future



## TK-2302/3302

Compact VHF/UHF FM Portable Radios

Kenwood's compact and rugged TK-2302/TK-3302 transceivers represent ergonomic and quality excellence. Based upon a proven design with enhanced features, it has the power and performance to satisfy the toughest job requirements. You will immediately appreciate how easy it is to use and enjoy features such as scan, built-in VOX, and long battery life. It has reliable performance in all conditions, thanks to MIL-STD 810 & IP54/55 weatherproofing. Indoors or out, rain or shine, the smart new high-powered on-site radios are star performers!

### COMPACT DESIGN

The TK-2302/3302'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.

### TOUGH & WATER RESISTANT

Built tough to take rough treatment in stride, the TK-2302/TK-3302 has passed the demanding IP54/55 dust and water intrusion tests, both with or without the KMC-45 optional speaker microphone. They meet or exceed 11 stringent MIL-STD 810 C/D/E/F environmental standards including driven rain. So, whatever the weather, the radios are ready for action.

### FUNCTION KEYS

The two side PF1 and PF2 keys make functions easily available on the TK-2302/TK-3302, with PF1 key for activating the Lock function and PF2 key for Scan w/temp delete function permitting a custom usage for specific users.

### LOCK

Lock all user controls (except PTT and volume) to prevent accidental channel changes.

### SCAN

Scanning is a simple way to monitor multiple channels and the TK-2302/TK-3302 (16-channel capacity) offers scan modes.

### VOICE ANNUNCIATION

When you select different channels, these radios can be set to provide voice annunciation channel numbers.

### WIRELESS CLONING

This wireless feature simplifies the setup of several radios to function identically and eliminates repetitive setup actions of individual radios. (Dealer function only)

### ACCESSORIES INCLUDED


















- 12-Hour NiMH Battery (5-5-90)
- 3-Hour Fast Charger
- Spring Action Belt Clip
- Removable Antenna

### OTHER FEATURES

- Weighs only 12.7 oz (w/battery)
- VOX Hands-Free Operation
- Time-Out-Timer
- Low Battery Warning
- 2-Year Warranty



# Options

<p>■ <b>KNB-29N</b> NiMH Battery Pack (1500 mAh)</p> 	<p>■ <b>KRA-27</b> UHF Whip Antenna</p> 	<p>■ <b>KHS-8BL</b> 2-wire Palm Mic with Earphone (Black)</p> 	<p>■ <b>KMB-25</b> Six Unit Charger Adapter</p>  <p>(chargers not included)</p>
<p>■ <b>KSC-31K</b> Fast Charger (3-Hour)</p> 	<p>■ <b>KMC-45</b> Speaker Microphone</p> 	<p>■ <b>KHS-9BL</b> 3-wire Lapel Mic with Earphone (Black)</p> 	<p>■ <b>KBH-10</b> Belt Clip</p> 
<p>■ <b>KRA-22</b> VHF Low Profile Helical Antenna</p> 	<p>■ <b>KMC-21</b> Compact Speaker Microphone</p> 	<p>■ <b>KHS-22</b> Behind-the-head Headset with PTT</p> 	<p>■ <b>KLH-121</b> Leather Case</p> 
<p>■ <b>KRA-23</b> UHF Low Profile Helical Antenna</p> 	<p>■ <b>KEP-2</b> Earphone Kit (2.5mm plug)</p> 	<p>■ <b>KHS-23</b> 2-wire Palm Mic</p> 	
<p>■ <b>KRA-26</b> VHF Helical Antenna</p> 	<p>■ <b>KHS-7A</b> Single-Muff Headset with In-line PTT</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-2302	TK-3302
<b>GENERAL</b>		
Frequency Range	136-174 MHz	450-470 MHz
Number of Channels	16	
Channel Spacing	Wide/Narrow 25 kHz/12.5 kHz	
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 during hi-power battery saver: OFF/ON)	Approx. 12 hours / 18 hours	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability	±2.5 ppm (-30°C ~ +60°C)	
Antenna Impedance	50 Ω	
Dimensions (W x H x D), Projections not included		
Radio Only	2.13" x 4.8" x 0.83" (54 x 122 x 21 mm)	
with KNB-29	2.13" x 4.8" x 1.30" (54 x 122 x 33 mm)	
Weight (Net)		
Radio Only	5.6oz (160g)	
with KNB-29	12.7oz (360g)	
FCC ID		
Type 1	ALH413500	ALH413600
IC Certification		
Type 1	282D-413500	282D-413600

Model	TK-2302	TK-3302
<b>RECEIVER (Measurements made per TIA/EIA-603)</b>		
Sensitivity (12dB SINAD)		
Wide	0.25 μV	
Narrow	0.28 μV	
Selectivity		
Wide	70 dB	
Narrow	60 dB	
Intermodulation Distortion		
Wide	65 dB	
Narrow	60 dB	
Spurious Response	65 dB	60 dB
Audio Output (8 Ω Impedance)	500mW with less than 10% distortion	
<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>		
RF Power Output		
High	5 W	4 W
Low	1 W	1 W
Spurious Response		
65 dB		
Type of Emission		
Wide	16KØF3E	
Narrow	11KØF3E	
FM Noise (EIA)		
Wide	45 dB	
Narrow	40 dB	
Audio Distortion		
Less than 5%		

Kenwood follows a policy of continuous advancement in development.  
For this reason specifications may be changed without notice.

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# Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
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, II	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
<b>International Protection Standard</b>				
Dust & Water Protection	IP54/55			

\*To meet IP54/55, the 2-pin connector cover has to be connected on the radio or the locking bracket has to be attached to the KMC-45 external speaker microphone.

# KENWOOD

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