

# KENWOOD

Listen to the Future

## TK-2212L/3212L

Compact VHF/UHF FM Portable Radios

**FleetSync®**  
by KENWOOD

Always at the ready, rugged and reliable. Kenwood's smart new TK-2212L/3212L combines solid performance with superb convenience, reflected in every detail of its design. And with such features as a 128-channel/128-zone capacity, FleetSync® support, built-in VOX and voice-inversion scrambling, it's capable of serving with distinction in a wide range of demanding assignments.

### 128 CHANNELS / 128 ZONES

The 128 channel / 128 zone capacity accommodates virtually any current or future requirement for single or multiple site radio systems.

### ADVANCED DISPLAY

The backlit 8-character, 13 segment LCD with icons provides an easy-to-read channel, function and FleetSync® messaging display day or night.

### SHORT DATA MESSAGE (SDM)

The TK-2212L/3212L can display a short FleetSync® message up to 48 characters.

### ENHANCED KENWOOD AUDIO

The TK-2212L/3212L provides loud clear audio even in noisy environments.

### MIL-STD DRIVEN RAIN & IP54/55

The TK-2212L/3212L is built to survive hard knocks and harsh weather environments. These radios meet or exceed the stringent IP54/55 dust and water intrusion standards and the MIL-STD 810 C, D, E, & F environmental standards including the demanding "driven rain" test\*.

\* MIL-STD and IP Compatibility requires the 2-pin connector cover to be connected.

### VOICE INVERSION SCRAMBLER

The built-in voice inversion scrambler provides basic communications protection against casual eavesdropping.

### VOX READY

The TK-2212L/3212L offers convenient hands-free operation with a compatible headset. The TK-2212L/3212L internal VOX (voice-operated transmission) circuitry provides automatic PTT and a 10-level sensitivity adjustment for different ambient noise levels.

### QT/DQT/DTMF SIGNALLING

The TK-2212L/3212L includes industry standard encode/decode signalling formats for talk groups, system access, selective calling, talk back paging, status messaging and remote control applications.

### SCAN

Multi-channel call monitoring can be customized per user needs with single/multi-zone scan and delete/add scan features. Priority Scan automatically checks a primary channel for activity even while receiving a call on a non-priority channel. Convenience features such as Priority Alert, Temporary Delete and Revert Channel Display facilitate user-friendly operation and eliminate confusion. Also, Talk Back allows the user to respond immediately to a call, regardless of the pre-programmed or selected scan revert channel.

### FleetSync®






















Kenwood's FleetSync® digital signalling system includes PTT ID for instant radio call identification. FleetSync® also includes status messaging, selective calling, caller ID display, stun features and SDM.

### OTHER FEATURES

- Key Lock
- Tri-Color LED (Red, Orange, Green)
- Power On Text Message
- 6 Programmable Function Keys
- Channel & Zone Scan Delete/Add
- Operator Selectable Tone
- Embedded Message
- Programming Data Password
- Wireless Cloning
- Microsoft Windows® PC Programming & Tuning



# Options

<p>■ <b>KNB-45L</b> Li-Ion Battery Pack (2,000mAh)</p> 	<p>■ <b>KRA-27</b> UHF Whip Antenna</p> 	<p>■ <b>KEP-2</b> Earphone Kit for KMC-17/21 (2.5mm plug)</p> 	<p>■ <b>KHS-9BL/BE</b> 3-Wire Lapel Mic with Earphone (Black/Beige)</p> 
<p>■ <b>KSC-35</b> Rapid Charger</p> 	<p>■ <b>KRA-16</b> VHF Stubby Antenna</p> 	<p>■ <b>KHS-1</b> Headset with VOX/PTT</p> 	<p>■ <b>KHS-22</b> Headset</p> 
<p>■ <b>KRA-22</b> VHF Low Profile Helical Antenna</p> 	<p>■ <b>KRA-17</b> UHF Stubby Antenna</p> 	<p>■ <b>KHS-7</b> Single Muff Headset</p> 	<p>■ <b>KHS-23</b> 2-Wire Palm Mic</p> 
<p>■ <b>KRA-23</b> UHF Low Profile Helical Antenna</p> 	<p>■ <b>KMC-17</b> Speaker Microphone</p> 	<p>■ <b>KHS-7A</b> Single Muff Headset w/In-line PTT</p> 	<p>■ <b>KMB-25</b> Six Unit Charger Adapter (for six KSC-35 chargers; chargers not included)</p> 
<p>■ <b>KRA-26</b> VHF Helical Antenna</p> 	<p>■ <b>KMC-21</b> Compact Speaker Microphone</p> 	<p>■ <b>KHS-8BL/BE</b> 2-Wire Palm Mic with Earphone (Black/Beige)</p> 	<p>■ <b>KBH-10</b> Belt Clip</p> 
			<p>■ <b>KWR-1</b> Water Resistant Bag</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

	TK-2212L	TK-3212L	TK-2212L	TK-3212L
<b>GENERAL</b>				
Frequency Range			<b>RECEIVER (Measurements made per TIA/EIA-603)</b>	
Type 1	136-174 MHz	450-490 MHz	Sensitivity (12dB SINAD)	
Type 2	—	470-512 MHz	Wide	0.25 μV
Number of Channels			Narrow	0.28 μV
Zone/Channel	Max. 128 per Radio / Max. 128 per Zone		Selectivity	
Channel Spacing			Wide	70 dB
Wide/Narrow	25, 30 kHz/12.5, 15 kHz	25 kHz/12.5 kHz	Narrow	60 dB
Battery Voltage	7.5V DC±20%		Intermodulation Distortion	
Battery Life (5-5-90 duty cycle, during hi-power, battery saver off) with KNB-29N (1500mAh)	Approx. 10 hours		Wide	65 dB
Operating Temperature Range*	-22°F ~ +140°F (-30°C ~ +60°C)		Narrow	60 dB
Frequency Stability	±2.5ppm (-22°F ~ +140°F)		Spurious Response	65 dB
Antenna Impedance	50 Ω		Audio Output (8 Ω impedance)	500 mW with less than 10% distortion
Channel Frequency Spread			<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>	
Type 1	38 MHz	40 MHz	RF Output Power	
Type 2	—	42 MHz	High	5 W
Dimensions (W x H x D), Projections not Included			Low	1 W
Radio Only	2.13" x 4.8" x 1.19" (54 x 122 x 30.1 mm)		Spurious Response	65 dB
with KNB-29N	2.13" x 4.8" x 1.65" (54 x 122 x 42 mm)		Type of Emission	
Weight (net)			Wide	16K0F3E
Radio Only	6.3 oz (180 g)		Narrow	11K0F3E
with KNB-29N	13.4 oz (380 g)		FM HUM & Noise	
FCC ID			Wide	45 dB
Type 1	ALH37683110	ALH37693110	Narrow	40 dB
Type 2	—	ALH37693120	Audio Distortion	Less than 5%
FCC Compliance			Kenwood reserves the right to change specifications and features without prior notice. FleetSync® is not compatible with FleetSync II offered in some Kenwood products. FleetSync® is a registered trademark of Kenwood Corporation in the United States and/or other countries. All other trademarks are property of their respective owners.	
Type 1	FCC parts 74/90	FCC parts 22/74/90/95		
Type 2	—	FCC parts 22/74/90		
IC Certification				
Type 1	282D-37683110	282D-37693110		

\*+14°F ~ +140°F (-10°C ~ +60°C) when KNB-29N in use

# 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	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 MIL 810 and IP grade, the 2-pin connector cover has to be connected.



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