



# TK-2212/3212

# **Compact VHF/UHF FM Portable Radios**

FleetSync®

Always at the ready, rugged and reliable. Kenwood's smart new TK-2212/3212 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.

#### ADVANCED INDUSTRIAL DESIGN

The TK-2212/3212's compact, rugged and smart industrial design offers practicality, durability and style make it easy to carry and operate.

## 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.

#### **ENHANCED KENWOOD AUDIO**

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

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

The TK-2212/3212 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\*.

 $^{\star}$  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-2212/3212 offers convenient hands-free operation with a compatible headset. The TK-2212/3212 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-2212/3212 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, and stun features.

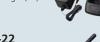
## **OTHER FEATURES**

- 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**















■ KRA-27 UHF Whip Antenna



■ KEP-2 Earphone Kit for KMC-17/21



KHS-7A

w/In-line PTT



■ KHS-9BL 3-Wire Lapel Mic with Earphone (Black)

■ KHS-22 Headset

■ KHS-23 2-Wire Palm Mic

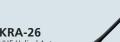
■ KMB-21 Six Unit Charger Adapter (for six KSC-31 chargers; chargers not included)

■ KBH-10 Belt Clip











**KMC-17** Speaker Microphone

■ KMC-21 Compact Speaker Microphone



■ KHS-8BL 2-Wire Palm Mic with Earphone (Black)

Single Muff Headset



**Specifications** 

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.

	TK-2212	TK-3212			
GENERAL					
Frequency Range	400 474 444	450 400 1411			
Type 1	136-174 MHz	450-490 MHz			
Number of Channels					
Zone/Channel	Max. 128 per Rac	Max. 128 per Radio / Max. 128 per Zone			
Channel Spacing					
Wide/Narrow	25, 30 kHz/12.5,15 kHz	25 kHz/12.5 kHz			
Battery Voltage	7.5V I	DC±20%			
Battery Life (5-5-90 duty o	cycle, during hi-power, bati	tery saver off)			
On anation Tonananature De	nAn) Approx	(. TU nours			
Eroguana Stability	inge" -22°F ~ +14	120°C ~ +00°C)			
Antonna Impodance	±2.5ppiii (-	.22 F ~ +140 F)			
Channel Frequency Spread	~	ace, during impower, battery saver only hh) Approx. 10 hours $ge^* -22°F \sim +140°F (-30°C \sim +60°C)$ $\pm 2.5 ppm (-22°F \sim +140°F)$ $50 Ω$			
Type 1	38 MHz	40 MHz			
31					
Dimensions (W x H x D), F					
Radio Only	2.13" x 4.8" x 1.19" (54 x 122 x 30.1 mm)				
with KNB-29N	2.13" x 4.8" x 1.6	2.13" x 4.8" x 1.65" (54 x 122 x 42 mm)			
Weight (net)		(400.)			
Radio Only		6.3 oz (180 g)			
with KNB-29N FCC ID	13.4 0	13.4 oz (380 g)			
Type 1	ALH37683110	ALH37693110			
) i ·					
FCC Compliance					
Type 1	FCC parts 74/90	FCC parts 22/74/90/95			
IC Certification					
Type 1	282D-37683110	282D-37693110			
7.5	*+14°F ~ +140°	°F (-10°C ~ +60°C) when KNB-29N in use			
	1171 1170	. (			
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	TK-2212	TK-3212					
RECEIVER (Measurements made per TIA/EIA-603)							
Sensitivity (12dB SINAD)							
Wide	0.2	!5 μV					
Narrow	0.2	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)	500 mW with less	than 10% distortion					
TRANSMITTER (Measuremen	ts made per TIA/EIA-	-603)					
RF Output Power							
High	5 W	4 W					
Low	1 W	1 W					
Spurious Response	65 dB						
Type of Emission							
Wide	16KØF3E						
Narrow	11KØF3E						
FM HUM & Noise							
Wide	45 dB						
Narrow	40 dB						
Audio Distortion	Less than 5%						

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.

# 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
International Protection	າ Standard			
Dust & Water Protection	IP54/55			

 $<sup>\</sup>ensuremath{^{\star}}\xspace$  To meeet MIL 810 and IP grade, the 2-pin connector cover has to be connected.



Kenwood U.S.A. Corporation **Communications Sector Headquarters** 

Order Administration/Distribution

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