KENWOOD
Listen to the Future

TK-2212/3212

Compact VHF/UHF FM Portable Radios

FleetSync® by KENWOOD

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*.

* 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

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

■ **KRA-27**
UHF Whip Antenna

■ **KEP-2**
Earphone Kit for
KMC-17/21
(2.5mm plug)

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

■ **KSC-31**
Rapid Charger (3H)

■ **KHS-1**
Headset with
VOX/PTT

■ **KHS-22**
Headset

■ **KRA-22**
VHF Low Profile
Helical Antenna

■ **KHS-23**
2-Wire Palm Mic

■ **KRA-23**
UHF Low Profile
Helical Antenna

■ **KMC-17**
Speaker Microphone

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

■ **KHS-7A**
Single Muff Headset
w/In-line PTT

■ **KRA-26**
VHF Helical Antenna

■ **KMC-21**
Compact Speaker
Microphone

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

■ **KBH-10**
Belt Clip

Specifications

	TK-2212	TK-3212
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-490 MHz
Number of Channels		
Zone/Channel	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 DC±20%	
Battery Life (5-5-90 duty cycle, during hi-power, battery saver off)		
with KNB-29N (1500mAh)	Approx. 10 hours	
Operating Temperature Range*	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	40 MHz
Dimensions (W x H x D), Projections not Included		
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 1.65" (54 x 122 x 42 mm)	
Weight (net)		
Radio Only	6.3 oz (180 g)	
with KNB-29N	13.4 oz (380 g)	
FCC ID		
Type 1	ALH37683110	ALH37693110
FCC Compliance		
Type 1	FCC parts 74/90	FCC parts 22/74/90/95
IC Certification		
Type 1	282D-37683110	282D-37693110

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

	TK-2212	TK-3212
RECEIVER (Measurements made per TIA/EIA-603)		
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)	500 mW with less than 10% distortion	
TRANSMITTER (Measurements 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%	

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.

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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	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 Standard				
Dust & Water Protection	IP54/55			

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

KENWOOD

JQA
UKAS
QUALITY
MANAGEMENT

ISO 9001
JQA-QMA1205
091-A

ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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