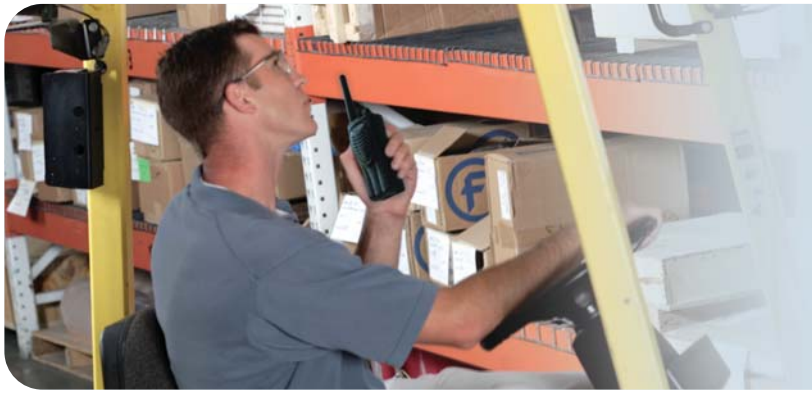
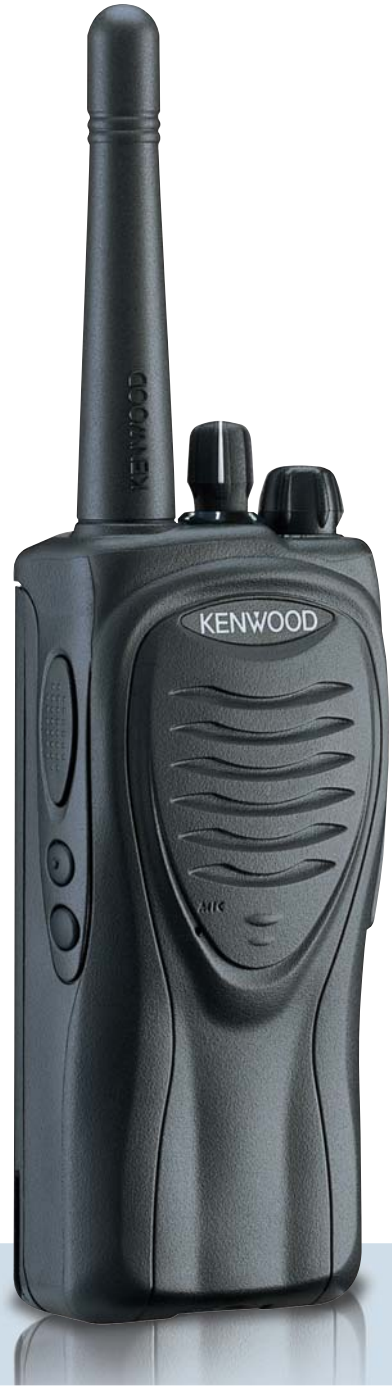
KENWOOD

Listen to the Future



TK-2202/3202

VHF/UHF FM Portable Radios



The excellent design of Kenwood's compact TK-2202/3202 portables guarantees superior ergonomics. Pick one up and you'll immediately appreciate how easy it is to use. Power is yours to enjoy too as they're equipped with priority scan, built-in VOX and a voice scrambler. You also get reassuring performance in all operating conditions, thanks to MIL-STD 810 & IP54/55 weatherproofing. Indoors or out, rain or shine, the well-built TK-2202/3202 portables set a new benchmark for rugged yet user-friendly operation.

COMPACT DESIGN

Compact enough to carry anywhere with ease, this smart new radio has a distinctively ergonomic form that's handy to hold and operate.

OPERATING EASE

The rotary and key controls on the TK-2202/3202 have been designed to provide the user with positive detent feedback and voice-announcement even if carried and operated undercover or in a pocket.

8 CHANNELS

The TK-2202/3202 provides plenty of capacity for multiple channels or radio systems.

VOX READY

The TK-2202/3202 offers convenient hands-free operation with a compatible headset.
The TK-2202/3202 internal VOX (voice-operated transmission) circuitry provides automatic PTT and a 10-level sensitivity adjustment for different ambient noise levels.

SIGNALLING

Encoder/Decoder function uses QT/DQT to segregate talk groups, so users only hear calls from their own group.

ENHANCED KENWOOD AUDIO

The TK-2202/3202 provides loud clear audio even in noisy environments.

ROBUST & RELIABLE

The TK-2202/3202 is built to survive the hard knocks, drops and all weather environments of its users. It meets or exceeds the stringent IP54/55 dust and water intrusion standards and the MIL-STD 810 C, D, E & F environmental standards including the demanding "blowing rain" test.

*MIL-STD/IPXX compatibility requires use of the terminal cover supplied with the SP-Mic.

BUILT-IN VOICE INVERSION SCRAMBLER

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

SCAN

Multi channel call monitoring can be customized with delete/add scan. Priority Scan automatically checks a primary channel for activity while receiving a call on a non-priority channel. Convenience features such as Priority-channel Stop Tone, Temporary Delete and Revert Channel facilitate user-friendly operation and eliminate confusion.

OTHER FEATURES

- Compact & Smart Body
  54(W)x122(H)x33(D)mm w/KNB-29N
- Built-in QT/DQT
- 2 Programmable Function Keys
- Wide/Semi Wide*/Narrow per channel
- Companded Audio per Channel
  (Wide/Semi Wide*/Narrow)
- Voice Annunciation
- Talk Around
- B.C.L. (Busy Channel Lockout)
- Key Lock
- 3-colours LED (Red, Orange, Green)
- Scan Del/Add function
- KENWOOD ESN (Electronic Serial Number)
- Microsoft Windows® PC Programming & Tuning

*Semi Wide: TK-2202[E]/3202[E] only

Options

- **KNB-29N** Ni-MH Battery Pack (1,500mAh)
- **KSC-31** Rapid Charger (3H)
- **KRA-22** VHF Low Profile Helical Antenna
- **KRA-23** UHF Low Profile Helical Antenna
- **KRA-26** VHF Helical Antenna
- **KRA-27** UHF Whip Antenna
- **KMC-17** Speaker Microphone
- **KMC-21** Compact Speaker Microphone
- **KHS-1** Headset with VOX/PTT
- **KHS-7** Single-Muff Headset
- **KHS-8BL** 2-Wire Palm Microphone (Black)
- **KHS-9BL** 3-Wire Lapel Microphone with Earphone (Black)
- **KHS-100H** Noise-Reduction Headset with Noise-Cancelling Microphone
- **KHS-21** Headset
- **KHS-22** Lightweight Headset with Boom Mic./PTT
- **KEP-2** Earphone Kit for the KMC-17/21 (2.5mm plug)
- **KBH-10** Belt Clip
- **KWR-1** Water Resistant Bag
- **KLH-120** Leather Case
- **KLH-131** Nylon Case

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-2202	TK-3202
GENERAL		
Frequency Range		
E Type	136 ~ 174 MHz	440 ~ 470 MHz
E3 Type	—	400 ~ 430 MHz
Number of Channels	8	
Channel Spacing		
E Type	25 kHz/20 kHz/12.5 kHz	25 kHz/20 kHz/12.5 kHz
E3 Type	—	25 kHz/12.5 kHz
Battery Voltage	7.5 V DC ±20 %	
Battery Life	(5-5-90 duty cycle, during hi-power battery saver: OFF/ON)	
with KNB-29N (1500 mAh)	Approx. 11 hours/14 hours	
Frequency Stability	±2.5 ppm (-30°C ~ +60°C)	
Antenna Impedance	50 Ω	
Channel Frequency Spread	38 MHz	30 MHz
Dimensions (W x H x D), Projections not Included		
Radio only	54 x 122 x 21.1 mm	
with KNB-29N	54 x 122 x 33 mm	
Weight (net)		
Radio only	160 g	
with KNB-29N	360 g	
Applicable Standards	EN300 086, EN300 219	

	TK-2202	TK-3202
RECEIVER		
Sensitivity		
EIA 12 dB SINAD	0.28 µV/0.28 µV/0.35 µV	0.28 µV/0.28 µV**/0.35 µV
EN 20 dB SINAD	0.63 µV/0.63 µV/0.70 µV	0.63 µV/0.63 µV**/0.70 µV
25 kHz/20 kHz**/12.5 kHz		
Adjacent Channel Selectivity	70 dB/70 dB/62 dB	70 dB/70 dB**/62 dB
25 kHz/20 kHz**/12.5 kHz		
Intermodulation	65 dB	65 dB
Spurious Response Rejection	70 dB	70 dB
Audio Output (4 Ω impedance)	500 mW with less than 10 % distortion	
Measurement	EN Standards	
TRANSMITTER		
RF Power Output (High/Low)	5 W/1 W	4 W/1 W
Modulation Limiting	±5.0 kHz at 25 kHz	±5.0 kHz at 25 kHz
	±4.0 kHz at 20 kHz	±4.0 kHz at 20 kHz**
	±2.5 kHz at 12.5 kHz	±2.5 kHz at 12.5 kHz
Spurious Emission	-36 dBm≤1 GHz, -30 dBm>1 GHz	
FM Noise (EIA)	45 dB/43 dB/40 dB	45 dB/43 dB**/40 dB
25 kHz/20 kHz**/12.5 kHz		
Modulation Distortion	Less than 5 %	
Microphone Impedance	2 kΩ	
Measurement	EN Standards	

**E Type only

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	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.

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

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KENWOOD ELECTRONICS UK LIMITED
Kenwood House, Dwight Road, Watford, Herts, WD18 9EB, United Kingdom
www.kenwood-electronics.co.uk
comms@kenwood-electronics.co.uk

ISO9001 Registered
Communications Equipment Division
Kenwood Corporation