

KENWOOD

Listen to the Future



TK-2302/3302

Compact VHF/UHF FM Portable Radios

For clear, reliable communications indoors or out, rain or shine, there's no beating Kenwood's compact TK-2302/3302 transceiver. Based on a proven design, but refined and updated with enhanced features, it has the power and performance to satisfy even the toughest job requirements, due in part to the MIL-STD 810 & IP54/55 weather-proofing. A model of ergonomic excellence on the outside, inside it's packed with such features as priority scan, built-in VOX and a voice scrambler. No wonder the smart new TK-2302/3302 is attracting such attention.

COMPACT DESIGN

The rounded ergonomic contours of the TK-2302/3302 naturally provide a superbly comfortable hold, while the non-slip elastomer channel knob with improved torque characteristics and enlarged PTT button ensure a positive tactile response during operation.

TOUGH & WATERPROOF

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

ENHANCED AUDIO QUALITY

Clear audio means confident communications, but power output is not the only factor that determines how easy it is to use a radio in varying noisy environments. As an experienced audio specialist, Kenwood can draw on decades of expertise at every step: component selection, construction, optimization, evaluation and analysis. The resulting audio performance, specially engineered for transceivers, is undeniably clearer and crisper. Just listen to the difference.

QT/DQT SIGNALLING

The radio's encoder/decoder function uses QT/DQT to segregate talk groups so you only hear calls from your own group.

5-TONE SIGNALLING (Encode only)

The 5-tone encoder function can send 5-tone ID to another radio with 5-tone decode.

PROGRAMMABLE FUNCTION KEYS

The two PF Keys can be programmed for any of the many functions available on the TK-2302/3302, permitting a customized fit for your requirements.

VOICE ANNUNCIATION

The rotary and key controls on the radio can provide voice confirmation of radio status or operating mode, which is convenient when you are not able to look at the TK-2302/3302 – for example, if it's in your pocket. English is the default language, but you can switch to French, German, Dutch, Italian, Spanish, Russian or Chinese.

INDEPENDENT SETTINGS PER CHANNEL (VOX, COMPANDER, SCRAMBLER)

Radio channels can be programmed* independently for VOX, scrambler and compander functions. This means you can switch a function on or off simply by changing channels (on the same frequency).

*By the dealer

16 CHANNELS

The TK-2302/3302 provides ample capacity for operating with multiple channels or radio systems.

BUILT-IN VOICE-INVERSION SCRAMBLER

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

VOX READY

Enjoy the convenience of hands-free operation using any optional headset. Offering a 10-level sensitivity adjustment, the internal VOX (voice-operated transmission) function automatically activates PTT when you start talking. This is great for specialized tasks or events that require hands-free, constant or repetitive communications.

OTHER FEATURES

- Read/Write Password Protection
- Wide/Narrow per Channel
- Companded Audio per Channel
- Talk Around
- B.C.L. (Busy Channel Lockout)
- Key Lock
- 3-colour LEDs (red, orange, green)
- Scan Del/Add
- KENWOOD ESN (Electronic Serial Number)
- Adjustable Microphone Gain (by FPU): High or Normal
- Microsoft Windows® PC Programming & Tuning



Options

<ul style="list-style-type: none"> KNB-45L Li-Ion Battery Pack (2,000 mAh) KNB-29N Ni-MH Battery Pack (1,500mAh) KNB-53N NiMH Battery (1400 mAh) KSC-31 Rapid Charger for KNB-29N/53N KSC-316 6 Pocket Multiple Charger for KNB-29N/53N KSC-35 Rapid Charger for KNB-45L KSC-356 6 Pocket Multiple Charger for KNB-45L 	<ul style="list-style-type: none"> KRA-22/23 VHF/UHF Low Profile Helical Antenna KRA-26/27 VHF/UHF Whip Antenna KMC-45 Speaker Microphone KMC-21 Compact Speaker Microphone EMC-7 Clip Microphone with Earphone KEP-2 Earphone Kit 	<ul style="list-style-type: none"> KHS-1 Headset with VOX/PTT KHS-7 Single Muff Headset KHS-8BL 2-wire Palm Microphone KHS-9BL 3-wire Lapel Microphone with Earphone KHS-10-OH Heavy-duty Noise Reduction Headset KHS-21 Headset 	<ul style="list-style-type: none"> KHS-22 Headset KHS-29F Headset KWR-1 Water Resistant Bag KBH-10 Belt Clip KLH-120 Soft 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-2302	TK-3302		TK-2302	TK-3302
GENERAL			RECEIVER		
Frequency Range			Sensitivity		
Type 1	136 - 174 MHz	440 - 470 MHz	EIA 12 dB SINAD	0.28 µV / 0.28 µV / 0.35 µV	
Type 3	-	400 - 430 MHz	EN 20 dB SINAD	-3 dB µV (0.35 µV) / -3 dB µV (0.35 µV) / -2 dB µV (0.40 µV)	
Number of Channels		Max.16	Wide / Wide 4K* / Narrow		
Channel Spacing			Adjacent Channel Selectivity		
Wide / Wide 4K* / Narrow	25 kHz / 20 kHz / 12.5 kHz		Wide / Wide 4K* / Narrow	70 dB / 70 dB / 62 dB	
Battery Voltage	7.5 V DC ±20 %		Intermodulation	65 dB	65 dB
Battery Life (5-5-90 duty cycle, during hi-power battery saver: OFF/ON)			Spurious Response Rejection	70 dB	70 dB
with KNB-45L (2,000 mAh)	Approx. 12 hours / 18 hours		Audio Output	500 mW / 8 Ω	
with KNB-53N (1,400 mAh)	Approx. 9 hours / 12 hours		Measurement	EN Standards	
Operating Temperature Range	-30°C ~ +60°C		TRANSMITTER		
Frequency Stability	±2.5 ppm (-30°C ~ +60°C)		RF Power Output (High/Low)	5 W / 1 W	4 W / 1 W
Antenna Impedance	50 Ω		Modulation Limiting*		
Dimensions (W x H x D), Projections not Included				±5.0 kHz at 25 kHz	±5.0 kHz at 25 kHz
with KNB-45L / 53N	54 x 122 x 33.8 mm			±4.0 kHz at 20 kHz (Type 1 only)	±4.0 kHz at 20 kHz (Type 1 only)
Weight (net)				±2.5 kHz at 12.5 kHz	±2.5 kHz at 12.5 kHz
Radio only	160 g		Spurious Emission	-36 dBm ≤ 1GHz, -30 dBm > 1GHz	
with KNB-45L	280 g		Modulation		
with KNB-53N	350 g		Wide / Wide 4K* / Narrow	16K0F3E / 14K0F3E / 11K0F3E	
			FM Noise (EIA)		
			Wide / Wide 4K* / Narrow	45 dB / 43 dB / 40 dB	
			Modulation Distortion	Less than 5 %	
			Microphone Impedance	2 kΩ	
			Measurement	EN Standards	

* Wide 4K: Type 1 only

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice. Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

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

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.

NETHERLANDS | Roermond
Tel. +31 (0)475-327390
ed Kingdom | www.classicinternational.eu

GERMANY | Mönchengladbach
Tel. +49 (0)2166-33061
www.classicinternational.eu



Version2_May10

COMTK2032CAT