



TK-7302(H)/8302(H)

VHF/UHF Compact FM Mobile Radios









Kenwood's new TK-7302/8302 delivers reliable mobile performance with extra wideband coverage (UHF: 70MHz) and such features as QT/DQT signaling, multiple scan functions and a voice inversion scrambler. Yet this tough IP54/MIL-STD-compliant radio is decidedly user-friendly, providing high-quality audio, voice announcement, and a large display with adjustable brightness for simple operation, day and night.

16 CHANNELS, 2 ZONES

The TK-7302/8302 offers ample capacity for multiple channels and radio systems: 16 channels and 2 zones. And once it is programmed, users can select specific channels within a set range.

ENHANCED KENWOOD AUDIO

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 audio specialist experienced in psychoacoustics, 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 and with frequency response optimized for the human voice — is undeniably clearer and crisper.

EXTERNAL D-SUB 15-PIN INTERFACE

A D-sub 15-pin terminal enables the simple connection of various types of external equipment. It can be used for

Ignition sense, External Switch, Horn Alert, and External Mic, among others. A Molex interface is also available with the optional KCT-60M cable.



MULTIPLE SIGNALING

QT/DQT/DTMF

Encoder/decoder function uses QT/DQT to segregate talk groups, so users only hear calls from their own group. DTMF PTT ID is included for dispatch operations or for a simple remote control application.

■ FleetSync® PTT ID, SelCall & Status

Utilizing Kenwood's FleetSync® signaling protocol, the TK-7302/8302 has PTT ID (ANI: automatic number identification) and Selective Calling capabilities for managed dispatch operations. Programmed Status (by FPU) can also be sent.

2-tone (encode/decode)

The 2-tone signaling format is provided for use with the most common radio systems.

■ MDC-1200 signaling

Built-in MDC signaling means the following features are available:

- PTT ID Encode
- Emergency Encode
- Stun/Revive Decode
- Radio Check Decode

Emergency alert

For hazardous/hostile duty environments, a PF key can be programmed for emergency use to alert the dispatcher or other group members via DTMF, FleetSync® or MDC-1200 signaling.

PROGRAMMABLE VOICE INVERSION SCRAMBLER*1

The built-in programmable voice inversion scrambler provides basic protection against casual eavesdropping. It is possible to have a unique scrambler setting for each channel by picking the voice inversion frequency from one of 16 tables.

PROGRAMMABLE BLUE LED

The blue LED indicator can be customized to provide useful status information. For example, it can be used in combination with the orange LED for Selective Call differentiation.



GPS FEATURE

Connected to an external GPS receiver, the TK-7302/8302 can transmit accurate vehicle location data to the central base station for fleet management purposes. Designated scrambler and GPS modules can be installed internally.

OTHER FEATURES

- Multiple Scan Functions, including Priority Scan Voting (automatic repeater search & selection) Independent
 Setting Per Channel (compander, wide/narrow scrambler)
 BCL (Busy Channel Lockout) 9 Programmable Function
 Keys Talk Around Horn Alert Function Companded
 Audio (narrow/wide) 3-colour LED (red, orange, green)
 Voice Announcement (choice of language between
 English, Spanish, Russian and Chinese) Password
 Protection Time-out Timer Minimum Volume Setting
 (by FPU) Operator Selectable Tone Settings Embedded
 Message 8 Programmable Accessory Ports (for external control) Scan Del/Add Function Kenwood ESN
 (Electronic Serial Number) Radio Stun Adjustable
 Microphone Gain (FPU only): High/Normal Microsoft
 Windows® PC Programming & Tuning
- *1 This function cannot be used in certain countries.

 Please contact your Kenwood dealer for further information.



Options













■ KMC-36 Keypad Microphone



■ KES-3 External Speaker



■ KCT-18 Ignition Sense Cable (requires KCT-60 option)



■ KMC-30 Microphone



■ KES-5 External Speaker



■ KCT-36 3m Extension Cable (for KCT-60)



■ KMC-32 16-key Keypad Microphone



■ KMB-10 Key Lock Adapter



■ KCT-60 Connection Cable



Specifications

	TK-7302	TK-7302H	TK-8302	TK-8302H
GENERAL				
Frequency Range				
Type 1	136~1	74 MHz	450~5	20 MHz
Type 2		-	400~4	70 MHz
Number of Channels				

Type 1 Type 2	136~174 MHz -		450~520 MHz 400~470 MHz	
Number of Channels Zone	2)	5)
Channel	Max.16		Max.16	
Channel Spacing	12.5 kHz	/ 25 kHz	12.5 kHz	/ 25 kHz
Operating Voltage	13.6 V D	C±15 %	13.6 V D	C±15 %
Current Drain				
Standby	0.4 A	0.4 A	0.4 A	0.4 A
Receive	1.0 A	1.0 A	1.0 A	1.0 A
Transmit	8.0 A	14.0 A	8.0 A	14.0 A
Operating Temperature Range	-22 °F ~ +140 °F	(-30 °C ~ +60 °C)	-22 °F ~ +140 °F	(-30 °C ~ +60 °C)
Frequency Stability	±2.5 ppm (-22	°F ~ +140 °F)	±2.5 ppm (-22	°F ~ +140 °F)
Antenna Impedance	50	Ω	50	Ω
Dimensions (W x H x D),				
Projections not included	160 mm x 43 r	nm x 137 mm	160 mm x 43	mm x 137 mm
Weight (net)	1.18 kg		1.18 kg	

Kenwood reserves the right to change specifications and features without prior notice. FleetSync® is a trademark of Kenwood Corporation.

Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

All accessories and options may not be available in all markets. Contact an authorize
Kenwood dealer for details and complete list of all accessories and ontions

TK-7302	TK-7302H	TK-8302	TK-8302H	
nts made per EIA/1	TIA-603)			
0.28 μV		0.28 μV		
0.35	įμV	0.35 μV		
		75 dB		
65	dB	65 dB		
		70 dB		
60 dB		60 dB		
75 dB		75 dB		
4 W with less tha	an 5 % distortion	4 W with less th	an 5 % distortion	
TRANSMITTER (Measurements made per EIA/TIA-603)				
5 W ~ 25 W	5 W ~ 50 W	5 W ~ 25 W	5 W ~ 45 W*1	
70	dB	70	dB	
16K	OF3E	16K	0F3E	
11K	OF3E	11K	0F3E	
45	dB	45	dB	
40	dB	40	dB	
600 Ω		600 Ω		
3	%	3	%	
		·	%	
	75 65 70 60 75 4 W with less that rements made per 5 W ~ 25 W 70 16K 11K 45 40 600 33	10.28 μV 0.35 μV 75 dB 65 dB 70 dB 60 dB 75 dB 4 W with less than 5 % distortion rements made per EIA/TIA-603) 5 W ~ 25 W 5 W ~ 5 W ~ 5 W ~ 5 W 70 dB 16K0F3E 11K0F3E 45 dB 40 dB 600 Ω	10.28 μV 0.23 μV 0.33 μV 0.35 μV 0.35 μV 0.36 65 dB 75 dB 7	

^{*1: 490 ~ 512} MHz: 5 ~ 40 W, 512 ~ 520 MHz: 5 ~ 35 W

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*2	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*2	509.1 / Procedure I	509.2 / Procedure I	509.3 / Procedure I	509.4
Dust*2	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, III, V	516.3 / Procedure I, IV, V	516.4 / Procedure I, IV, V	516.5 / Procedure I, IV, V
International Protection	Standard			
Dust 9 Water Brotestian	IDE 4*2			

^{*2:} Necessary conditions are: (1) KMC-35/36 microphone is connected; (2) cap is installed on speaker connector; (3) cover is installed on D-sub 15-pin connector; and (4) neither KCT cable nor SP cable is connected.

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.

JVCKENWOOD U.K. Limited

