

# KENWOOD

Listen to the Future



## TK-2185

VHF MPT1327 Trunked Portable Radio



### GENERAL FEATURES

- 5 W (217-270 MHz)
- 12 Character Alphanumeric Aliases
- Lighted Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Display Customisation
- RSSI Indicator
- Date & 12 / 24 Hour Time Clock
- Transmit / Busy / Call Alert
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF Keypad
- 500 mW Speaker Audio
- Voice Inversion Scrambler Built-in
- Enhanced Kenwood Audio
- Encryption Board Control
- Easy Option Port\*<sup>1</sup>
- DTMF Manual Encode
- LCD Battery Status Indicator
- Low Battery Alert
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Option
- Windows® Programming & Tuning\*<sup>2</sup>
- Windows® Firmware Uploading\*<sup>2</sup>
- Front Panel Test / Tune
- MIL-STD-810C/D/E/F
- MIL-STD "Driven-Rain"
- IP54 / 55 Water & Dust Intrusion

### CONVENTIONAL MODE\*<sup>3</sup>

- 32 Channels
- 12.5 / 25 kHz CH Spacing (per CH)
- QT / DQT Encode & Decode
- Normal Scan (No Priority)
- Scan Delete / Add
- Companded Audio (per CH)
- Time Out Timer
- Busy Channel Lockout (per CH)

### TRUNKED MODE\*<sup>3</sup>

- 8 Network Capacity
- Multi-Site Network Trunking
- Single-Site Trunking
- Network Roaming / Registration
- 12.5 / 25 kHz Spacing (per network)
- Individual Call ("Private Calling")
- Group Call
- Broadcast Call
- Inter-fleet Calling
- Inter-Prefix Calling
- PTT Intiate Call
- PSTN / PABX Call
- Priority Call
- Emergency Call
- Pre-emptive Emergency
- Full Off Air Call Setup
- Network Call Queuing
- Call Prioritisation
- Queue Incoming Calls
- Electronic Serial Number (ESN)
- 99 Call and Group Address List
- Group Scan
- Home Address
- Companded Audio\*<sup>4</sup>
- PAA2424 available

footnotes :

\*<sup>1</sup> Easy Option Port: Supports Encryption boards only; ANI boards are not supported.

\*<sup>2</sup> KPG-96D (Ver. 3.30 or higher) required: Windows® 98/ME/2000/XP/ Vista (32-bit) compatible.

\*<sup>3</sup> Conventional Mode: Mode entry by PF key or Auto Mode Change. Network / Trunking operations are MPT1327/1343 compatible.

\*<sup>4</sup> Companded Audio can be enabled for all Channels in Trunked Mode and per Channel in Conventional Mode.

## Options

### ■ KNB-32N

Ni-MH Rechargeable  
Battery Pack (2500 mAh)



### ■ KRA-34

VHF Helical Antenna



### ■ KHS-11BL

2-Wire Palm Mic  
with Earphone



### ■ KHS-15-OH

Heavy-duty  
Over-the-Head Headset



### ■ KNB-33L

Li-ion Rechargeable  
Battery Pack (2000 mAh)



### ■ KMC-41

Heavy-duty  
Speaker Microphone  
with Noise-cancelling



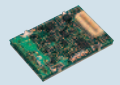
### ■ KHS-12BL

3-Wire Mini Lapel Mic  
with Earphone



### ■ VGS-1

Voice Guide &  
Storage Unit



### ■ KSC-32

Tri-chemistry  
Rapid Charger



### ■ KMC-38GPS

GPS Speaker  
Microphone



### ■ KHS-14

Lightweight Single  
Muff Headset



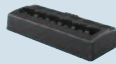
### ■ KBH-11

Belt Clip (2.5")



### ■ KSC-326

Multiple Charger



### ■ KEP-1

Heavy-duty Earphone



All accessories and options may not be available in all markets.

Contact an authorised Kenwood dealer for details and complete list of all accessories and options.

## Specifications

TK-2185	
GENERAL	
Frequency Range	217~270 MHz
Number of Channels / Call Address	
Conv. Mode	Max.32 per personal
Trunked Network	Max.99 per personal
Channel Spacing	25 kHz / 12.5 kHz
Operating Voltage	7.5 V DC ±20%
Battery Life (5-5-90 duty cycle, during hi-power)	
with KNB-32N (2500 mAh)	Approx. 14 hours
with KNB-33L (2000 mAh)	Approx. 10 hours
Operating Temperature Range*	-30 °C ~ +60 °C
Frequency Stability	±2.5 ppm (-30 °C ~ +60 °C)
Antenna Impedance	50 Ω
Channel Frequency Spread	53 MHz
Dimensions (W x H x D), Projections not included	
Radio Only	58 x 136 x 21.5 mm
with KNB-32N	58 x 136 x 39.5 mm
with KNB-33L	58 x 136 x 33 mm
Weight (net)	
Radio Only	260 g (includes supplied accessories)
with KNB-32N	560 g (with antenna and belt clip)
with KNB-33L	400 g (with antenna and belt clip)
Applicable Standards	EN300 086, EN300 113, EN300 219, EN301 489 EN60065, EN60950-1, EN60215

\*Operating temperature range of the KNB-32N/33L: -10 °C ~ +60 °C

TK-2185	
RECEIVER	
Sensitivity (EIA 12dB SINAD)	0.28 μV / 0.32 μV
Sensitivity (EN 20dB SINAD)	-3 dB μV (0.35 μV) / -2 dB μV (0.40 μV)
25 kHz / 12.5 kHz	
Adjacent Channel Selectivity	
25 kHz / 12.5 kHz	73 dB / 63 dB
Intermodulation	65 dB
Spurious Response Rejection	70 dB
Audio Output	500 mW / 8 Ω
TRANSMITTER	
RF Power Output	
High	5 W
Low	1 W
Modulation Limiting	±5.0 kHz at 25 kHz ±2.5 kHz at 12.5 kHz
Spurious Emission	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz
FM Noise (EIA)	45 dB / 40 dB
Modulation Distortion	Less than 3%
Microphone Impedance	2 kΩ
Measurement	EN standards

Kenwood reserves the right to change specifications and features without prior 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			

# KENWOOD

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YOUR LOCAL DEALER



CL649E-E-2(SA)

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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ISO9001 Registered  
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ISO9001 certification