

KENWOOD

Listen to the Future



ProTalk® TK-2200LP/3200LP

Compact VHF/UHF FM Portable Radios

The compact ProTalk® TK-2200LP/3200LP, Kenwood's latest envoy for professional grade job site portables sets the standard on ruggedness, features and performance. The perfect solution for construction, retail, hospitality, warehousing, industrial, facilities management and rental fleet applications. The modern design contours present a functional and attractive form factor.

COMPACT DESIGN

The ergonomic contours of the ProTalk® naturally fit the hand for a superbly comfortable hold. The non-slip elastomer channel knob and switch torque ensures positive selection and resists accidental changing.

2, 8 & 15 CHANNEL MODELS

Select ProTalk® 2, 8 or 15* channel models which will fit your needs and requirements. A great selection providing plenty of capacity for multiple channels or radio systems.

**15 channel models is available in UHF only.*

FREQUENCY & QT/DQT

The ProTalk® VHF (TK-2200LP) 2 & 8 channel models has 27 pre-stored frequencies while the ProTalk® UHF (TK-3200LP) 2 or 15 channel models has 56 pre-stored frequencies. Both models have 39 QT tones and 83 DQT codes. Users can program a ProTalk® to any of the pre-stored frequencies and QT/DQT's, assuring compatibility with other brand radios.

**QT & DQT may also be referred to under other brand acronyms as PL, CG, CTCSS & DPL, DCG, DCS.*

SUPER LOCK

Managers can "Super Lock" all user controls (except PTT and volume) to prevent accidental channel changes.

WIRELESS CLONING

This wireless feature simplifies the setup of several Protalk® radios to function identically and eliminates repetitive setup actions of individual radios.

CALLING ALERT

Pressing on the Calling Alert key while transmitting causes an alert tone to sound from the other radio's speaker. This is a useful function to signal staff in noisy environments.

INTERNAL VOX/HANDS FREE READY

VOX (voice-operated transmission) is invaluable for specialized tasks or events that require repetitive hands-free communications. The radio itself provides automatic PTT action, so the user simply talks. VOX works with a Kenwood-compatible headset.

TOUGH & WATER RESISTANT

Built tough for rugged work environments, the ProTalk® has been designed to pass industrial drop tests, international IP54/55 water and dust intrusion tests and 11 categories of the U.S. Department of Defense MIL-STD 810 C, D, E & F environmental standards tests.

2 WATTS TRANSMIT POWER / RANGE UP TO 6 MILES

The ProTalk® offers 2 watts* of power to enable direct radio-to-radio communication on the same frequency (simplex) for up to 6 miles**.

Conditions	ProTalk®
Open areas without obstructions	Up to 6 miles (9.6 km)
Residential areas (near buildings)	Up to 1.5 miles (2.4 km)
In steel and/ or concrete reinforced buildings	Up to 250,000Sq. (23,220 Sq. m)
In high-rise buildings	Up to 20 floors

**For some frequencies, power may be limited to 1 watt.
**Talk range will vary based on terrain, conditions and type of radio.*

OTHER FEATURES

- Time Out Timer
- Battery Save and Low Battery Warning
- Scan
- Channel confirmation mode



Options

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



■ **KNB-45L**
2,000mAh/7.4V
Li-Ion Battery Pack



■ **KSC-31**
Fast Charger
For the KNB-29N (3-Hour)

■ **KSC-35K**
Fast Charger
For the KNB-45L (3-Hour)

■ **KRA-16**
VHF Stubby Antenna

■ **KRA-17**
UHF Stubby Antenna

■ **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

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

■ **KHS-7**
Single Muff Headset



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

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

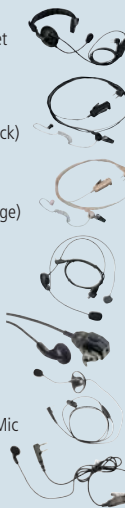
■ **KHS-8BE**
2-wire Palm Mic
with Earphone (Beige)

■ **KHS-22**
Behind-the-head
Headset with PTT

■ **KHS-23**
2-wire Palm Mic

■ **KHS-25**
D-Ring Ear Hanger
with PTT & Boom Mic

■ **KHS-26**
Earbud In-line
PTT Headset



■ **KHS-27**
D-Ring In-line
PTT Headset

■ **HMC-3**
Headset with PTT
Built-in Vox

■ **KMB-25**
Six Unit Charger
Adapter (for six
KSC-31/35K chargers
(chargers not included)

■ **KMB-28**
Six Unit Charger
Adapter (for six
KSC-35K chargers
(chargers not included)

■ **KBH-10**
Belt Clip

■ **KWR-1**
Water Resistance Bag

■ **KLH-126**
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

Model	TK-2200LP VHF	TK-3200LP UHF
GENERAL		
Frequency Range	150-174 MHz	450-470 MHz
Number of Channels		
LV2P / LU2P	2	2
LV8P	8	-
LU15P	-	15
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5, 15kHz	25kHz/12.5kHz
Channel Step	2.5, 5, 6.25, 7.5kHz	5, 6.25kHz
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle)		
with KNB-29N (1500mAh)	14 hours (Battery Saver Off) 18 hours (Battery Saver On)	
with KNB-45L* (2000mAh)	17 hours (Battery Saver Off) 22 hours (Battery Saver On)	
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	24MHz	20MHz
Dimensions (W x H x D), Projections not Included		
Radio Only	2.13" x 4.8" x 0.83" (54 x 122 x 21.1mm)	
with KNB-29N/KNB-45L	2.13" x 4.8" x 1.30" (54 x 122 x 33mm)	
Weight (net)		
Radio Only	5.6oz (160g)	
with KNB-29N	12.7oz (360g)	
with KNB-45L	9.9oz (280g)	
FCC ID	ALH36913120	ALH36923130
FCC Compliance	Parts 22/74/90	Parts 90/95

*KNB-45L included with radio package.

** -14°F ~ +140°F (-10°C ~ +60°C) When KNB-29N/45L in use.

Model	TK-2200LP VHF	TK-3200LP UHF
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70dB/60dB	
Intermodulation Distortion		
Wide/Narrow	65dB/60dB	
Spurious Response	65dB	60dB
Audio Output	500mW with less than 10% distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		
High/Low	2W/1W	2W/1W
Spurious Response	65dB	
Modulation		
Wide/Narrow	16KØF3E/11KØF3E	
FM Noise		
Wide/Narrow	45/40dB	
Audio Distortion	Less than 5%	

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

KENWOOD

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ACCESSORIES INCLUDED

- KNB-45L Li-Ion Battery
- KSC-35K 3-Hour Fast Charger
- KBH-10 Spring Action Belt Clip
- Removable Antenna



ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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