

# KENWOOD

Listen to the Future



## ProTalk® TK-2300VP/3300UP

Compact VHF/UHF FM Portable Radios

The compact ProTalk® TK-2300VP/3300UP, 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.

### 4 & 16 CHANNEL MODELS

Select ProTalk® 4 or 16 channel models which will fit your needs and requirements. A great selection providing plenty of capacity for multiple channels or radio systems.

### FREQUENCY & QT/DQT

The ProTalk® VHF (TK-2300VP) 4 & 16 channel models has 27 pre-stored frequencies while the ProTalk® UHF (TK-3300UP) 4 or 16 channel models has 89 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. (Dealer function only)

### 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

*\*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
- Voice Inversion Scrambler by Channel



# 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-45**  
Speaker Microphone

■ **KMC-21**  
Compact Speaker  
Microphone

■ **KEP-2**  
Earphone Kit for  
KMC-45  
(2.5mm plug)

■ **KHS-7**  
Single Muff Headset



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

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

■ **KHS-9BL/BE**  
3-wire Lapel Mic  
with Earphone (Black/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



■ **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-2300VP VHF	TK-3300UP UHF
<b>GENERAL</b>		
Pre-set Frequencies	27	89
Number of Channels		
V4P / U4P	4	4
V16P / U16P	16	16
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 1.33" (54 x 122 x 33.8mm)	
Weight (net)		
Radio Only	5.6oz (160g)	
with KNB-29N	12.7oz (360g)	
with KNB-45L	9.9oz (280g)	
FCC ID	ALH413501	ALH413603
FCC Compliance	Parts 22/74/90	Parts 90

\*KNB-45L included with radio package.

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

Model	TK-2300VP VHF	TK-3300UP UHF
<b>RECEIVER (Measurements made per TIA/EIA-603)</b>		
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	
<b>TRANSMITTER (Measurements made per TIA/EIA-603)</b>		
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.

ProTalk® is a registered trademark of Kenwood Corporation.

# Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
<b>High Temperature</b>	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
<b>Rain</b>	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
<b>Shock</b>	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
<b>International Protection Standard</b>				
<b>Dust &amp; Water Protection</b>	IP54/55*			

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

# KENWOOD

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www.kenwoodusa.com/protalkinfo

# 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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