

UHF FM TRANSCEIVER
TK-3501

PMR446

License Free Radio



Thin and lightweight yet durable design. Simple and confident communications.

User-friendly with no need for a license

The TK-3501 is a license-free PMR446 UHF transceiver. The ready-to-use package contains the transceiver, a rechargeable battery, battery charger and belt clip.



Thin and lightweight

The lightweight TK-3501 is just 25.5mm* thick and fits perfectly in the palm of your hand. Equipped with the standard KNB-63L battery, it weighs in at only 210g. *At thinnest point on body.



Thickness 25.5mm

IP54 and US MIL-STD 810 C, D, E, F, and G standard-compliant

The TK-3501 meets IP54 dust and water intrusion standards as well as 11 US MIL-STD 810 C, D, E, F, and G standards. Its robust durability is able to withstand tough use in the field.

Standard	MIL 810C Methods	MIL 810D Methods	MIL 810E Methods	MIL 810F Methods	MIL 810G Methods
Low Pressure	500.1/I	500.2/I, II	500.3/I, II	500.4/I, II	500.5/I, II
High Temperature	501.1/I, II	501.2/I, II	501.3/I, II	501.4/I, II	501.5/I, II
Low Temperature	502.1/I	502.2/I, II	502.3/I, II	502.4/I, II	502.5/I, II
Temperature Shock	503.1/I	503.2/I	503.3/I	503.4/I, II	503.5/I
Solar Radiation	505.1/I	505.2/I	505.3/I	505.4/I	505.5/I
Rain	506.1/I, II	506.2/I, II	506.3/I, II	506.4/I, III	506.5/I, III
Humidity	507.1/I, II	507.2/II, III	507.3/II, III	507.4	507.5/II
Salt Fog	509.1/I	509.2/I	509.3/I	509.4	509.5
Dust	510.1/I	510.2/I	510.3/I	510.4/I, III	510.5/I
Vibration	514.2/VIII, X	514.3/I	514.4/I	514.5/I	514.6/I
Shock	516.2/I, II, V	516.3/I, IV	516.4/I, IV	516.5/I, IV	516.6/I, IV

International Protection Standard

Dust & Water Protection	IP54
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Wide talk range

The TK-3501 achieves a talk range of up to 9km with a receiver circuit optimised for the high-performance stationary antenna.

High-quality audio, powerful output

Drawing on Kenwood's expertise as an audio specialist, the TK-3501 offers crisp, clear audio resulting in dependable communications even in harsh operating conditions. The BTL audio amplifier combined with the large internal speaker delivers 1.5W speaker output and reliable audio even in noisy environments.



16 channels

A rotary encoder enables easy operation to choose any of 16 channels.



Power-saving design = longer operation

The power-saving design delivers up to 20 hours of use (with Power Save enabled) with the standard KNB-63L (1,100mAh) battery. (26 hours with the optional KNB-65L battery)

QT/DQT compatible

The user can reprogram the pre-defined QT tone and frequency settings for each channel. The TK-3501 also supports DQT for a quiet standby mode.

Self programming

User selectable channel frequencies, QT tones, and DQT codes without using an FPU (programming software).

Other features:

- Built-in VOX function* •Key Lock function •Preset 10 Calling Alert
- Proceed Tone/PTT Release Tone •All Reset Mode •Busy Channel Lock Out

*Optional KHS-21 required.

The TK-3501. An easy-to-use, license-free PMR446 UHF FM transceiver. Thin, lightweight and durable. Compliant with IP54 and 11 US MIL-STD standards.

Ease of use

Simple and license-free operation in an all-in-one package ready for immediate use.

Thin and lightweight

Comes with a KNB-63L battery (W×H×D): 54.0×117×25.5mm; weight: 210g.

Durability

IP54 and US MIL-STD 810 C, D, E, F, and G standard-compliant.





High-quality audio, powerful output

Powerful 1.5W output with BTL audio amplifier.

Wide talk range

Up to 9km talk range with enhanced reception and high-performance antenna.

OPTION

KNB-63L Li-Ion Battery Pack (7.2V 1100mAh)		KHS-1 Headset w/ PTT/VOX		KHS-21 Headset	
KNB-65L Li-Ion Battery Pack (7.4V 1520mAh)		KHS-7 Single Muff Headset		KHS-22 Behind-the-Head Lightweight Headset	
BT-16 Battery Case		KHS-7A Single Muff Headset w/ in-line PTT		EMC-11 Clip Microphone w/ Earphone	
KSC-355 Rapid Charger		KHS-8BL 2-Wire Palm Microphone w/ Earphone		EMC-12 Clip Microphone w/ Earphone	
KSC-356 Multiple Charger (6-unit Rapid Rate)		KHS-9BL 3-Wire Palm Microphone w/ Earphone		KBH-18 Belt Clip	
KMC-21 Speaker Microphone (Compact Low-Profile)		KHS-10-OH Heavy-duty headset		KWR-1 Water Resistance Bag	
KMC-45 Speaker Microphone		KEP-2 2.5mm Earphone kit		KLH-197NC Nylon Case	

TK-3501 SPECIFICATIONS

GENERAL			
Frequency Range	Analogue	446.0 to 446.1MHz	
Number of Channels		16ch	
Channel Spacing	Analogue	12.5 kHz	
Operating Voltage		7.5V DC ± 20%	
Battery Life (5-5-90)*1		Battery Save: OFF	Battery Save: ON
	KNB-63L	14 hours	20 hours
	KNB-65L	18 hours	26 hours
Frequency Stability		±2.5 ppm	
Dimensions (W×H×D), Weight	Radio only	54×117×14.6mm, 140g	
	With KNB-63L	54×117×25.5mm, 210g	
	With KNB-65L	54×117×27.5mm, 230g	
RF Power Output		ERP 500 mW	
Audio Output	Internal Speaker	1.5W / 8Ω	
	External Output	500 mW / 8Ω	
Modulation	Narrow	8K50F3E	

*1 Based upon 5% transmit/ 5% receive/ 90% standby (standard duty cycle)

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ProTalk