

The ProTalk TK-3401D is a license-free UHF digital transceiver featuring digital dPMR446 and analogue PMR446 communications.

Both digital and analogue communications

Up to 32 channels are available split into 2 zones. 16 digital dPMR446 channels and 16 analogue PMR446 channels.

Ease of use

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

Durability

IP54/55 and US MIL-STD 810 C, D, E, F, and G standard-compliant.

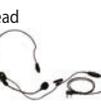
High-quality audio, powerful output

An AMBE+2™ vocoder delivers high-quality audio with minimum delay and BTL audio amplifier for powerful 1W output.

Wide talk range

Digital mode allows for wider reception range while achieving a talk range of up to 9 km in analogue mode.

OPTION

| | | | | | |
|---|---|--|---|--|---|
| KNB-45L Li-ion Battery (7.4V/2000mAh) |  | KMC-45 Speaker Microphone |  | KHS-21 Headset |  |
| KNB-53N Ni-MH Battery (7.2V/1400mAh) |  | KEP-2 2.5mm Earphone Kit |  | KHS-22 Behind-the-Head Lightweight Headset |  |
| KSC-35S Rapid Charger (for KNB-45L/ 69L) |  | KHS-1 Headset w/ PTT/VOX |  | EMC-11 Clip Microphone w/ Earphone |  |
| KSC-43 Rapid Charger (for KNB-53N) |  | KHS-7 Single Muff Headset |  | EMC-12 Clip Microphone w/ Earphone |  |
| KSC-316 Multiple Charger (6-unit Rapid Rate) |  | KHS-7A Single Muff Headset w/ in-line PTT |  | KBH-10 Belt Clip |  |
| KSC-356 Multiple Charger (6-unit Rapid Rate) |  | KHS-8BL 2-Wire Palm Microphone w/ Earphone |  | KWR-1 Water Resistance Bag |  |
| KMC-21 Speaker Microphone (Compact Low-Profile) |  | KHS-9BL 3-Wire Palm Microphone w/ Earphone |  | KLH-187 Nylon Case |  |
| | | KHS-10-OH Heavy-duty headset |  | KLH-131PC Leather Case |  |

TK-3401D SPECIFICATIONS

| GENERAL | | |
|----------------------------|-----------------------|---|
| Frequency Range | Analogue | 446.0 to 446.1MHz |
| | Digital | 446.1 to 446.2MHz |
| Number of Channels | 32ch / 2zone | |
| Channel Spacing | Analogue | 12.5 kHz |
| | Digital | 6.25 kHz |
| Operating Voltage | 7.5V DC ± 20% | |
| Battery Life (5-5-90)*1 | KNB-45L | Battery Save: OFF 14 hours Battery Save: ON 18 hours |
| Frequency Stability | ±1.0 ppm | |
| Dimensions (WxHxD), Weight | Radio only | 54x122x33.7mm, 165g |
| | KNB-45L, 53N | 54x122x35.5mm, 280g, 350g |
| RF Power Output | ERP 500 mW | |
| Audio Output | Internal Speaker | 1W / 12Ω |
| | External Output | 500 mW / 8Ω |
| Modulation | Narrow (12.5kHz) | 8K50F3E |
| | Very Narrow (6.25kHz) | 4K00F1E |

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

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KENWOOD

UHF DIGITAL TRANSCEIVER TK-3401D



License Free Radio



ProTalk DIGITAL

UHF DIGITAL TRANSCEIVER TK-3401D



License Free Radio



Actual size



User-friendly and durable design to best serve your work needs.

Digital/analogue compatibility

The TK-3401D features the latest digital dPMR446 technology for better radio interference protection. It's easy to switch between digital and analogue modes, with a total of 32 channels (16 digital and 16 analogue) in two zones, which is ideal for use with current analogue transceivers with a view to gradually switching to digital.



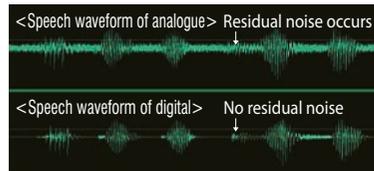
User-friendly - no license required

The TK-3401D is a license-free dPMR446 and PMR446 UHF digital transceiver. The ready-to-use package comes with a transceiver, rechargeable battery, battery charger, and belt clip. The TK-3401D is perfect for professional applications needing to cover only small areas without the need for a repeater.



High-quality audio, powerful output

• Digital technology's lack of residual noise produces clear, crisp audio quality



«Upper» Residual noise in analogue mode drowns out voices, making it hard to hear.

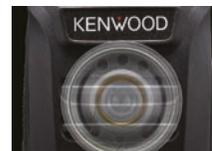
«Lower» The lack of residual noise in digital mode delivers clear, crisp communications.

• DSP delivers high-quality audio with minimal delay

The high-quality audio design draws on Kenwood's state-of-the-art technology and features a DSP with an AMBE+2™ vocoder. Optimized DSP internal processing also minimizes the delay associated with digital voice audio.

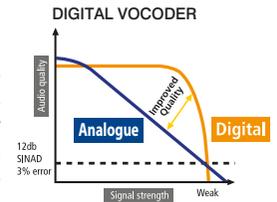
• A BTL audio amplifier delivers powerful 1W output (with internal speaker)

Combined with the large internal speaker, the powerful output delivers reliable audio even in noisy environments.



Digital technology provides superior clarity in extended coverage

As RF signal strength weakens with distance, analogue reception becomes increasingly noisy and intermittent. dPMR446's digital modulation technology improves reception in fringe areas, thereby "effectively" increasing coverage as much as 20% compared to analogue.



IP54/55 and US MIL-STD 810 C, D, E, F, and G standard-compliant

| 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, IP55 | | | | |

A High-Capacity battery for long-lasting operation

The TK-3401D comes with a high-capacity 2,000mAh Li-Ion battery to deliver up to 24 hours of operation. The ability to keep going with no battery replacement means better reliability even in harsh working environments.

254 common ID codes (Digital Mode)

The pre-programmed QT tone frequencies can be changed for each channel. The TK-3401D also offers DQT for a quiet standby mode.

Compatible with QT/DQT (Analogue Mode)

You can change the pre-programmed QT tone frequencies for each channel. The TK-3401D also offers DQT for a quiet standby mode.

Other features:

- Voice Announcement •Self programming •SCAN(Zone/Normal/S.Priority)
 - Built-in VOX function*•Blue LED •Analogue Scrambler •PC Programming
- *Optional KHS-21 required.