

# VX-241

## Licence Free PMR446 Radio

### SPECIFICATION SHEET

### Compact, Easy-to-Use Portable Communications

The VX-241 PMR446 radio is a 16-channel economical licence free radio providing long-lasting performance and reliability. The radio's small size is easy to carry and it supports the fundamental two-way radio functions needed without added cost.

#### Built To Perform

Rated IP 54 for dust and water protection and tested to Military Standards for durability, the VX-241 is designed to provide years of reliable use.

#### Quality Audio Output

Designed with 500 mW audio output makes the VX-241 ideal for noisy environments.

#### Minimise Channel Interference

Choose from 1 of 50 CTCSS tones or 1 of 104 DCS sequences on each of the 8 pre-programmed PMR446 frequencies, which can then be allocated to any of the 16 channel locations.

#### Monitor Communication Status: Auto-Range Transpond System – ARTS™

Only Vertex Standard radios are designed to inform you when you and another ARTS™-equipped radio are within communication range. If out of range for more than 2 minutes, your radio senses no signal has been received and beeps to alert you. A great solution to keep everyone coordinated and exclusively offered in Vertex Standard radios.



VX-241 PMR446

110 (H) x 58 (W) x 30 (D) mm

### The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Count on Vertex Standard for radios that are built to last and designed to provide more features for a better return on your investment. Ask your Dealer for more details.

## Additional Features

- 16 channels
- Two programmable keys
- Fixed antenna
- Battery power save
- Low battery alert
- CTCSS / DCS Encode and Decode
- Scan
- Follow-me scan
- Time out timer (TOT)
- Manual squelch adjustment
- Busy channel lockout (BCLO)

## Accessories

- MH-450S: Speaker microphone
- MH-360S: Compact speaker microphone
- MH-45B4B: Noise cancelling speaker microphone
- MH-37A4B: Earpiece microphone
- VC-25: Over-the-head VOX headset
- FNB-VI03LIA: 1380 mAh Li-Ion battery\*
- VAC-300: Desktop rapid charger (CD-34 and PA-42)\*
- DCM-1: Desktop charger bracket
- VCM-2: Vehicle charger mounting adapter
- VAC-6300: 6-Unit multi rapid charger
- LCC-35I: Leather case
- LCC-35IS: Leather case w/swivel belt clip
- CLIP-18: Belt clip\*

\*Included with radio

## VX-241 Specifications



### General Specifications (EN 300 296)

Frequency Range	8 pre-programmed PMR446 frequencies 446.00625 MHz – 446.09375 MHz
TX Output Power	500 mW ERP
Battery Life (5-5-90 duty) FNB-VI03LIA	Up to 19 hours w/saver
Audio Output	500 mW @ 4 Ohms 5% THD
IP Rating	IP 54
Operating Temperature Range	-25° C to +55° C
Dimension (H x W x D)	110 x 58 x 30 mm
Weight	270 g (w/FNB-VI03LIA)
Power Supply Voltage	7.4V DC +/-20%
Channel Spacing	12.5 kHz
PLL Steps	6.25 kHz
Frequency Stability	±2.5 ppm
Sensitivity 20 dB SINAD	26.5 dBµV emf
Adjacent Channel Selectivity	55 dB
Intermodulation	60 dB
Spurious and Image Rejection	65 dB
Modulation	11K0F3E
Modulation Limiting	±2.5 kHz @ 12.5 kHz
Spurious Emissions	-36 dBm ≤ 1 GHz, -30 dBm > 1 GHz
FM Hum and Noise	40 dB 12.5 kHz
Audio Distortion	< 3 % @1 kHz

## Applicable MIL-STD

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	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	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 Cat. A1	505.2/Procedure I Cat. A1	505.4/Procedure I Cat. A1
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/Procedure I
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4/Procedure I
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure X	514.3/Procedure I Cat. 10	514.4/Procedure I Cat. 10	514.4/Procedure I Cat. 24
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, V

Specifications are subject to change without notice or obligation.

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