# V VZ™ Series
## VZ-20/28 Portable Radio - VHF/UHF

**Vertex Standard**

**The VZ-20/28 is a compact radio communication tool that is equipped with the essential features and quality standards to ensure that users can communicate with ease in mind.**

## Compact Form Factor

The form factor of this radio is designed to focus on vertical markets such as security, hospitality and retail. The compact size of this radio allows user to seamlessly integrate the radio into the existing business operations.

## Simple and Reliable

Characteristic of Vertex Standard portable portfolio, the radio is engineered for ease of use with high quality assurance.

## Versatile Scanning

With both scan and priority scan, user can be assured of flexibility of scan modes for better productivity.

## Channel Announcement

Upon channel switching, the radio announces the current channel. Users can toggle between channels without having to look at the radio, thus improving work productivity.

## Loud and Clear Audio

The 1-Watt speaker ensures important communications are conveyed in any noisy environment.

## 128 Channels

For the VZ-28 model, up to 128 channels can be stored either through programming software, or front panel. This provides conveniences to the users, avoiding the need to frequently program the radio.

## Li-Ion Battery Solutions

1800mAh Li-Ion energy solutions provide up to 13 hours of talk time with 5-5-90 duty cycle comprising 5% transmit, 5% receive and 90% standby.

## 2-Prong Pin Connector Accessories

The 2-prong pin side connector enables standard audio accessories to be used with this radio, thus lowering the overall cost of ownership.

VZ-20

VZ-28

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## Additional Features

- Battery Status Indicator
- Battery Saver Mode
- Talkaround
- CTCSS/DCS Encode/Decode
- Channel Announcement
- Internal VOX (Voice Activated Transmit)
- 2-pin accessory connector
- Busy Channel Lockout (BCLO)
- Reverse Burst
- PTT ID
- Keypad Lock (for VZ-28 only)

## Accessories

- VZ Series Antenna 403-470MHz
- VZ Series Antenna 136-174MHz
- VZ Series Antenna 350-390MHz
- FNB-Z182LI Li-Ion 1800 mAh with Fixed Belt Clip
- VZ Series Belt Clip
- CV17 Desktop Charger

## VZ-20/28 Specifications

|  | VHF | UHF |
|---|---|---|
| **General Specification** | | |
| Frequency Range | 136-174 MHz | 403-470 MHz<br>350-390 MHz |
| Number of Channels | 16/128 channels | |
| Power Supply Voltage | 7.4 V nominal | |
| Channel Spacing | 25/12.5 kHz | |
| Battery Life (5-5-90 duty w/battery saver) 1800mAh Li Ion Battery | 13 hours (VZ-20) /11 hours (VZ-28) | |
| IP Rating | IP54 | |
| Operating Temperature Range | -13 F to +140 F (-25 C to +60 C) | |
| Dimension (H x W x D) | 4.3 x 2.3 x 1.4 in (109 x 60 x 37 mm) with 1800 mAh Battery | |
| Weight (Approx.) | 270g w/FNB-Z182Li | |
| **Receiver Specification** | | |
| Sensitivity | Analog 12 dB SINAD: 0.20uV | |
| Adjacent Channel Selectivity | 65 / 60 dB | |
| Intermodulation | 60 / 55 dB | |
| Spurious and Image Rejection | 70 dB | |
| Audio Output | 1W @ 16 Ohms (INT) | |
| Hum and Noise | 40 dB | |
| Conducted Spurious Emission | -57 dBm for < 1 GHz<br>-47 dBm for > 1 GHz | |
| **Transmitter Specification** | | |
| Output Power | 5/1 Watt | 4/1 Watt |
| Modulation Limiting | ±2.5kHz | |
| Conducted Spurious Emissions | -36dBm for <1GHz<br>-30dBm for >1GHz | |
| FM Hum and Noise | 45 / 40 dB | |
| Audio Distortion | <3% | |
| Frequency Stability | ±1.5ppm | |