



**VIPERLINK USA**  
strike with clarity

## VPL900 Rattler Radio

### User Manual



# 1. Radio Overview (Controls & Layout)

## Left Side Buttons

### **Top Button - POC PTT**

Push-to-talk for POC (network communication).

### **Second Button - VFO A PTT**

Push-to-talk for the upper analog screen.

### **Third Button - SK1**

Push-to-talk for the lower analog screen (VFO B).

### **Bottom Button - SK2**

Switches between VFO A and VFO B.

## Right Side Ports

### **Accessory Port**

For a speaker microphone or earpiece.

### **USB-C Port**

Used for programming only. It is NOT used for charging.

## Charging the Radio

Charging is done through the **bottom charging port**.

### **Charging Indicator Light**

Red = charging

Green = fully charged

## Front Panel Controls

### **Green Button**

Opens the menu and answers calls.

### **Red Button**

Back / Exit and ends calls.

### **P1 Button (Single White Line)**

**Short Press (Default):** Opens Group Member List

**Long Press (Quick Call):** Allows quick access to selected groups. This is useful when you have many saved groups and want to reach certain groups directly without scrolling through all of them.

### **P2 Button (Two White Lines)**

**Short Press (Default):** Opens Group List

**Long Press:** Programmable

### **Directional Pad (Up/Down)**

Scrolls through menus.

### **\* (Star Key)**

Switches the active screen between POC and Analog.

### **0 Key**

Adds a space when programming names.

## # / VFO Key

Switches between uppercase, lowercase, and numbers when programming names.

## 0 Key

**Long Press:** Starts scanning in Analog mode.

**When programming names:** Adds special characters.

## 2. Basic Operation (Analog Mode)

### Direct Channel Entry

While on the analog screen, you can jump directly to a channel using the keypad.

Enter the channel number using **3 digits**.

**Example:** To go to channel 50, type **050**. The radio will automatically switch to that channel.

## 3. Menu System Overview

To access the menu, press the **Green Button**.

## 4. Work Mode

### POC Mode

Displays POC only (no analog).

### Analog Mode

Displays analog only (no POC).

### Mix Mode

Displays both POC and analog.

### Repeater Mode

Used for repeating / retransmitting signals.

## 5. Group

1. **Group List**
2. **Create Group**
3. **Join Group**

## 6. Member

- Shows members within the group.

## 7. Channel Settings

These settings control how each analog channel behaves.

### 1. **Bandwidth**

Options: Wide / Narrow. Narrow is most commonly used. Wide is mainly used for NOAA Weather and Aircraft.

2. **Output Power:** High = 10W. Low = 5W.

3. **RX CTCSS (Receive Tone)**

Used on some frequencies to open the squelch only when the correct tone is received. This helps block unwanted signals and only allows the intended transmission to be heard.

#### 4. TX CTCSS (Transmit Tone)

Required on some channels to access a repeater.

#### 5. Offset Settings

**Offset Direction:** Plus (+) or Minus (-)

**Offset Frequency:** Enter the transmit offset in MHz (example: 0.600)

#### 6. Channel Name

Assign a custom name or description to a channel.

#### 7. Frequency Hopping

#### 8. Scan Add / Delete

Adds or removes a channel from the scan list.

#### 9. Study Code (Learn Code)

#### 10. Aircraft Frequency

The radio automatically selects AM or FM. This cannot be manually changed.

## 8. Analog Settings

#### 1. Squelch

Range: 0-9. Lower settings are more sensitive.

#### 2. TOT (Time-Out Timer)

Sets how long the radio is allowed to transmit before it cuts off.

#### 3. Power Save

Options: **Off / Level 1 / Level 2 / Level 3**. Higher levels provide more battery life. For maximum performance, keep it Off.

#### 4. Channel Display Mode

**Frequency** shows the actual frequency on the screen.

**Alias** shows the programmed channel name.

#### 5. DTR (Dual Transfer Receive / Dual Watch)

On / Off.

#### 6. BCLO (Busy Channel Lockout)

Prevents transmitting on an active channel.

#### 7. Step Size

Most commonly used values are 12.5 kHz and 25 kHz. Use 12.5 kHz for narrow band and 25 kHz for wide band.

#### 8. Auto Frequency Detect

If you are close enough to a transmitting signal, the radio can detect and program that frequency.

*Important: Make sure the radio is in **VFO mode** before using Auto Frequency Detect. If the radio is on a saved channel instead, it can overwrite the programmed frequency.*

#### 9. Channel Clone RX

#### 10. Channel Clone TX

## 9. POC Settings

### 1. Profile

Options: Outdoor / Standard / Indoor / Earphone.

These settings adjust microphone processing and noise canceling based on your environment:

- **Outdoor:** Strong noise canceling for wind and background noise.
- **Standard:** Balanced setting for general use (recommended default)
- **Indoor:** Less aggressive noise canceling for clearer voice in quiet areas.
- **Earphone:**

### 2. Mic Mode

Adjusts microphone sensitivity. Default setting is Middle.

### 3. Power Save Configuration

**Power Save Level:** High Performance / Standard / Power Save

**Sleep Switch:** Controls sleep mode.

### 4. SIM Select

Select SIM 1 or SIM 2.

### 5. Auto SIM Switch

Automatically switches SIMs. Recommended setting is On.

### 6. Beep

Allows you to hear a slight beep when pressing or releasing a PTT button.

### 7. Time Zone

Select your time zone. Example: Central Time is either -5 or -6 depending on daylight saving time.

### 8. Account Selection

Choose IMEI 1 (usually Public)

or IMEI 2 (usually Private)

## 10. Phonebook

### Phonebook List

Shows all saved phone numbers.

### Add Contact

Enter the name, then the phone number, then save it.

### Delete All

Deletes all programmed phone numbers.

## 11. Call Log

- Shows incoming and outgoing phone calls.

## 12. Settings

### 1. Voice Prompt

Default setting is Off.

### 2. Backlight

**Backlight:** Can be set to **continuous** or to a **timed duration**.

**Call Backlight:** By default, this is On. When the radio receives a signal, the screen will light up.

### **3. Key Beep**

Turns the keypad/front-button beep sound on or off. Default is Off.

### **4. Earphone Recognition**

Default setting is Automatic.

### **5. Programmable Keys**

Note: SK1 Short press & Long press programmable functions are only active when Analog PTT is turned Off.

**SK1 (Short Press)** user selectable

**SK1 (Long Press)** user selectable

**SK2 (Short Press)** user selectable

**SK2 (Long Press)** user selectable

#### **P1**

**Short Press (Default):** Opens Group Member List

**Long Press:** Quick Call

#### **P2**

**Short Press (Default):** Opens Group List

**Long Press:** Programmable

### **6. Factory Reset**

Restores default settings.

### **7. RX Priority**

POC Priority / Analog Priority / Both.

### **8. Analog PTT 2**

Enables or disables the lower analog PTT.

### **9. Repeat Volume**

**POC Volume:** 1-9 (default 9)

**Analog Volume:** 1-9 (default 9)

### **10. Repeat Sound**

While in repeater mode, this controls whether the speaker volume is on or off.

## **13. GPS Location**

Displays GPS information (if enabled).

## **14. Radio Information**

Includes the following categories:

1. Account Information
2. Software Version
3. Module Version
4. IMEI 1
5. IMEI 2
6. ICCID 1

- 7. ICCID 2
- 8. POC Version
- 9. Analog Version

**Please Note:** Users of this device must comply with all FCC rules and regulations, if you are not licensed or do not have permission to transmit on a frequency it is the end user’s responsibility to ensure that those frequencies are not transmitted on. Please comply with all local, state, and federal laws and regulations while using this device.

**Important numbers for your device records**

Once you assemble your device, please make note of these numbers below.

<b>IMEI 1</b>	
<b>IMEI 2</b>	
<b>ICCID 1</b>	
<b>ICCID 2</b>	
<b>Date of purchase</b>	/ /
<b>Vendor</b>	

**NOTES:**

At ViperlinkUSA, you’re more than a customer, you’re part of our family. Thank you for standing with us, growing with us, and helping build a community rooted in trust, connection, and shared purpose. We are proud to have you with us. You’re not just supporting ViperlinkUSA, you’re part of what makes it thrive. Thank you for being a valued member of our family and for helping us build a community we are truly proud of.

**Strike with Clarity**  
**Viperlinkusa.com**