Whelen's VORTEXR1 Series All Hazard High Power Sirens provide an economical alternative for powerful siren communication without compromising quality.

SYSTEM FEATURES
- **VORTEXR1** - speaker with one active speaker cell
- Two-compartment (Type I) natural finish aluminum cabinet
- Speaker includes one high efficiency 400 watt speaker driver
- 50’ (15.24m) cable included
- Battery powered. Minimum of 15 minutes of full power output with batteries of our recommendation
- AC temperature compensated 5 amp battery charger
- Local controls or remote controls
- One tone-only power amplifier
- Gear driven rotor
- Electronic siren controller
- Tone generator timer
- Local control push-buttons
- Rotor relay control
- **SI TEST**
- Low battery alarm
- Battery tray
- Lightning arrester
- Six standard public warning tones - Wail, Whoop, Attack, Hi-Lo, Alert, Airhorn

SYSTEM OPTIONS
- **Solar option** – 2 each 80 watt panels, with brackets and solar regulator
- **Batteries** – 2 each Whelen approved batteries. Check Whelen's web site, www.whelen.com, for other recommended batteries
- **Pole top bracket**

SIREN ACTIVATION CONTROLS
Our VHF High and UHF siren activation control packages include the following:
- Radio
- Radio interface
- Tone or digital squelch
- 3-5dBi gain omni-directional antenna with bracket
- 35’ (10.67m) of RG58 antenna cable
- Polyphaser
- **SI TEST**

OTHER FEATURES
Other features are dependant upon one or two-way controls. Whelen equipment can be interfaced with many different types of two-way radio communications products and systems. The following is offered as standard options. Contact factory for special applications.

The following is available as standard options. **BOLD BLUE** indicates the Whelen Model:

**ONE-WAY CONTROLS**
- **VAUXIN** - Auxiliary board for contact closure activation
- **VD2030LL** - 10 Digit DTMF landline activation
- **VD230NV** - 10 Digit DTMF VHF high band / 150-170 MHz
- **VD230U** - 10 Digit DTMF UHF / 450-470 MHz
- **VORTT** - Two tone sequential option

**TWO-WAY CONTROLS**
- **VAUXCS** - Two-way contact closure activation and status board
- **VC2030LL** - Two-way landline activation
- **VC230NV** - 10 Digit DTMF VHF high band / 150-170 MHz
- **VC230NU** - 10 Digit DTMF UHF / 450-470 MHz

**OPTIONS**
- **VSTATUS** - Cabinet window LED status indicator
- **VPGINT** - Paging interface to interface Whelen tones with existing paging systems
- **VINTRU** - Intrusion alarm (available with two-way only)
Specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Height Inches (CM)</th>
<th>Width Inches (CM)</th>
<th>Depth Inches (CM)</th>
<th>Weight Lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VORTEXR1 Speaker &amp; Rotor</td>
<td>49.0 (124.46)</td>
<td>28.5 (72.40)</td>
<td>56.0 (142.24)</td>
<td>168 (76.3)</td>
</tr>
<tr>
<td>Electronics Cabinet Type l</td>
<td>32.5 (82.6)</td>
<td>22.5 (57.2)</td>
<td>10.5 (26.7)</td>
<td>69 (31.3)*</td>
</tr>
<tr>
<td>Pole Top Bracket (Optional)</td>
<td>30.5 (77.47)</td>
<td>12.0 (30.5)</td>
<td>13.5 (34.3)</td>
<td>10.0 (25.4)</td>
</tr>
</tbody>
</table>

*Less batteries. Two batteries add 90 Lbs. (40.9kg). Check with Whelen if a freight quote is needed.

Electrical

- Battery Charger Input: 120VAC, 60Hz, 7A fuse
- Battery Charger Output: 28VDC, 5A (nominal)
- Batteries: 2-12V, 60AH lead calcium (user supplied)
- Standby Current: 82mA, 24VDC
- Operating Current: 22A, 24VDC
- Power Amplifier: 400 watts
- Voltage: 10.0 (25.4) volts
- Overload Protection
- Protection: overload protection
- Overload: 10.5 (26.7) volts

Environmental

- Operating Temperature: -35C to +60C
- Storage Temperature: -65C to +125C
- Humidity, Non Condensing: 0 to 95%

Ordering Information

**BASIC SYSTEM INCLUDES ALL OF THE FOLLOWING**

- **VORTEXR1** - Speaker Assembly & Electronics Cabinet

**OPTIONS**

- **VAUXIN** - Auxiliary board for contact closure activation
- **VAUXCS** - Auxiliary/Status control board for contact closure activation and status
- **VD2030LL, VD2030NV, VD2030NU** - One-way radio control
- **VC2030LL, VC2030NV, VC2030NU** - Two-way radio control/status monitoring, COMM/STAT™
- **VORTT** - Two-tone sequential
- **VSTATUS** - Cabinet window LED status indicator
- **VPGINTE** - Paging interface to interface Whelen tones with existing paging systems
- **VINTRU** - Intrusion alarm
- **VSBC80** - Solar power
- **VPBT** - Speaker pole top bracket
- **BSETVR** - One pair of batteries

**NOTES**

- 10 digit DTMF Controls
- 10 digit DTMF Controls
- Solar power option includes 2-80 watt panels, mounting bracket and regulator

Acoustic Performance

- Wattage: 400 watts
- Estimated 70dB Range: 3200 ft / 975 m

**WARNING:** These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

ISO 9001 Registered QMS