VORTEXR4™

WHELEN®
TRUSTED TO PERFORM™

Outdoor All Hazards Rotating Warning Siren

Whelen's VORTEXR4 Series All Hazard High Power Sirens provide an economical alternative for powerful siren communication without compromising quality.

SYSTEM FEATURES

- **VORTEXR4** - speaker with four active speaker cells
- Two-compartment (Type I) natural finish aluminum cabinet
- Speaker includes four high efficiency 400 watt speaker drivers
- 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
- Four tone-only power amplifiers
- Gear driven rotor
- Electronic siren controller
- Tone generator timer
- Local control push-buttons
- Rotor relay control
- **SI TEST®**
- Low battery alarm
- Battery tray
- Lightning arrestor
- 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
- 3-5dB gain omni-directional antenna with bracket
- 35' (10.67m) of RG58 antenna cable
- Polyphaser
- SI TEST

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:
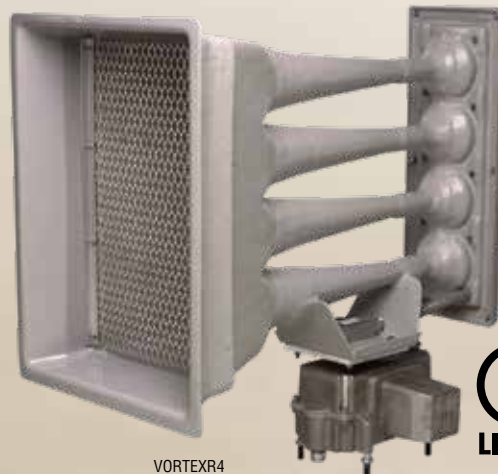
ONE-WAY CONTROLS

- **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)

VORTEXR4
Four cell speaker housing mounted on rotor.

UL LISTED

TYPE I Electronic Cabinet

VORTEXR4™

Specifications

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (KG)
VORTEXR4 Speaker & Rotor	49.0 (124.46)	28.5 (72.40)	56.0 (142.24)	234 (106.1)
Electronics Cabinet Type I (Aluminum)	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	87 (39.5)*
Pole Top Bracket (Optional)	30.5 (77.47) (with top plate)	12.0 (30.5) x 13.5 (34.3)	10.0 (25.4)	71 (32.20)

*Less batteries. Two batteries, Delco DC74, 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:** 88A, 24VDC
- **Power Amplifier Output Power:** 1600 watts

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
- **VORTEXR4** - Speaker Assembly & Electronics Cabinet

OPTIONS
- **VAUXIN** - Auxiliary board for contact closure activation
- **VAUXCS** - Auxiliary/Status control board for contact closure activation and status
- **VD2030LL, VD230NV, VD230NU** - One-way radio control ❶
- **VC2030LL, VC230NV, VC2030NU** - Two-way radio control/status monitoring, COMM/STAT™ ❶
- **VORTT** - Two tone sequential
- **VSTATUS** - Cabinet window LED status indicator
- **VPGINT** - Paging interface to interface Whelen tones with existing paging systems
- **VINTRU** - Intrusion alarm
- **VSBC80** - Solar power ❷
- **VPTB** - Speaker pole top bracket
- **BSETVOR -** One pair of batteries

NOTES
❶ 10 digit DTMF Controls. • Landline • VHF High Band / 150-170 MHz • UHF / 450-470 MHz • Our VHF High and UHF siren activation control packages include tone squelch, radio, radio interface, 3-5dB gain omni-directional antenna with bracket, 35' (10.67m) of RG58 antenna cable and polyphaser.

❷ Solar power option include 2 - 80 watt panels, mounting bracket and regulator

Acoustic Performance

Wattage: 1600 watts
Estimated 70dB Range: 6000 ft / 1828 m

Weather, terrain and other structures may impact the range. Each siren within the system may have a decreased or increased range depending on conditions beyond our control.

"Our Mass Notification Products Speak for Themselves"™

VORTEXR4 (four active speaker cells)

Pole Top Bracket Mount Dimensions (Optional Model VPTB)