VORTEXR2



All Hazard High-Power Siren System

Whelen's VORTEXR2 Series All Hazard High Power Sirens provide an economical alternative for powerful siren communication without compromising quality.

SYSTEM FEATURES

- VORTEXR2 Speaker with Two Speaker Cells Active
- Two-Compartment (Type I) Natural Finish Aluminum Cabinet
- 126dBC @ 100'
- VORTEXR2 Speaker Includes Two High Efficiency 400 Watt Speaker Drivers
- 50' 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
- Two-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

- VSBC80 Solar Power •
- **BSETVOR** 2ea Whelen Approved Batteries
- VPTB Speaker Pole Top Bracket
- Alternate Tone Set

NOTES:

 Solar Power Option. 2 - 80 Watt Panels, Mounting Bracket and Regulator

SIREN ACTIVATION CONTROLS

Our VHF High and UHF siren activation control packages include the following:

- Radio
- Radio Interface
- Tone Squelch
- 2-3dB Gain Omni-Directional Antenna with Bracket
- 35' 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 including 800Mhz trunking, Motorola's MOSCAD, FSK, narrow-band and VHF low band. The following is available as standard options. Contact factory for special applications.



VORTEXR2 cell speaker housing mounted on rotor.

ONE-WAY CONTROLS

- VAUXIN Auxiliary Board for Contact Closure Activation
- VD2020LL- 10 Digit DTMF Landline Activation
- VD2020H 10 Digit DTMF VHF High Band / 150-170 Mhz
- VD2020U 10 Digit DTMF UHF / 450-470 Mhz
- VORTT Two-Tone Sequential Option

TWO-WAY CONTROLS

- VAUXCS Two-Way Contact Closure Activation and Status Board
- VC2020LL Two-Way Landline Activation
- VC2020H 10 Digit DTMF VHF High Band / 150-170 Mhz
- VC2020U 10 Digit DTMF UHF / 450-470 Mhz
- VC2020NH 10 Digit DTMF VHF High Band narrow-band
- VC2020NU 10 Digit DTMF UHF Narrow-Band

Options

- VFSKXMOD Converts the Siren Activation Controls to FSK Format
- 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)



VORTEXR2

Specification Data

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)
VORTEXR2 Speaker & Rotor	49.0 (124.5)	28.5 (72.4)	56.0 (142.2)	190 (86.2)
Electronics Cabinet - Type I	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	69 (31.3)*
Pole Top Bracket (Optional)	30.0 (76.2)	12.0 (30.5)	10.0 (25.4)	71 (32.3)

*Less batteries. Two batteries. Delco DC74, add 90 Lbs. (40.9kg)

ELECTRICAL

- Battery Charger Input: 120VAC, 60Hz, 7A fuse
- Battery Charger Output: 28VDC, 5A #
- Batteries: 2-12V, 60AH lead calcium (user supplied)
- Standby Current: 40mA
- Rotor Motor: <1A, 24VDC
- Operating Current: 44A, 24VDC
- Power Amplifier Output Power: 800 watts

#UL recognized component

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:

- **VORTEXR2** Speaker Assembly & Electronics Cabinet **OPTIONS:**
- **VAUXIN** Auxiliary Board for Contact Closure Activation
- VAUXCS Auxiliary / Status Control Board for Contact Closure Activation and Status
- VD2020LL-VD2020H, VD2020U One-Way Radio Control ●
- VC2020LL, VC2020H, VC2020U Two-Way Radio Control/ Status Monitoring, COMM / STAT™ ●
- VC2020NH, VC2020NU Two-Way Narrow-Band Radio Control/ Status Monitoring, COMM/STAT™ **©**
- **VORTT** Two-Tone Sequential
- VFSKXMOD FSK Format
- **VSTATUS** Cabinet Window LED Status Indicator
- **VPGINT** Paging interface to Interface Whelen Tones with Existing Paging Systems
- **VINTRU** Intrusion Alarm
- VSBC80 Solar Power @
- VTXKIT Uprade Kit to Upgrade VORTEXR2 into a VORTEXR3; 2ea. VTXKIT would Upgrade to VORTEXR4
- **VPTB** Speaker Pole Top Bracket
- **BSETVOR** One Pair of Batteries

NOTES

- 10 digit DTME Controls Landline VHE High Band/150-170 Mhz LIHE/450-470 Mhz Our VHF High and UHF siren activation control packages include tone squelch, radio, radio interface, 2-3dB gain omni-directional antenna with bracket, 35' of RG58 antenna cable and polyphaser.
- Solar power option includes 2 80 watt panels, mounting bracket and regulator
- Contact Factory

Acoustic Performance

SPL @ 100': 126dBC

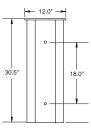
Estimated 70dB range: 5,200'

Estimated 60dB range: 10,400'

Note: 100' performance levels listed represent repeatable results within +/-2dB to stated levels. Estimated 70dB perimeter is based on the Federal Emergency Management Agency's (FEMA) -10dB per distance doubled path model.

1000 2000 3000 4000 5000 6000 7000 8000 9000 10,000 11,000 12,000 13,000 2500 4500 5500 8500 9500 11,500 500 1500 3500 6500 7500 10,500 12,500





Pole Top Bracket (Optional VPTB)

ENGINEERING COMPANY, INC. **PUBLIC WARNING PRODUCTS**

Route 145, Winthrop Road Chester, Connecticut 06412-0684 (860) 526-9504 1-800-637-4736 Fax: (860) 526-4784 Internet: www.whelen.com e-mail: iowsales@whelen.com

Whelen Engineering Company, Inc. reserves the right to upgrade its products with design improvements without notification. © 2006 Whelen Engineering Company, Inc.
Printed in the U.S.A. 041806-11360C