

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
- 126dB @ 100'
- VORTEXR2 Speaker Includes Two High Efficiency 400 Watt Speaker Drivers
- 15 m 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 ❶
- Alternate Tone Set

NOTES:

- ❶ 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



VORTEXR2 cell speaker housing mounted on rotor.

following is available as standard options. Contact factory for special applications.

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)



TYPE I ELECTRONIC CABINET (with service door open shows control panel and battery tray with optional batteries).

VORTEXR2

Specification Data

Component	Height CM (Inches)	Width CM (Inches)	Depth CM (Inches)	Weight KG (Lbs.)
VORTEXR2 Speaker & Rotor	124.5 (49.0)	72.4 (28.5)	142.2 (56.0)	86.2 (190)
Electronics Cabinet - Type I	82.6 (32.5)	57.2 (22.5)	26.7 (10.5)	31.3 (69)*

*Less batteries. Two batteries, CTV-80A 2-12V, 80AH Sealed Lead Calcium (user supplied, add 23.3kg)

WHELEN[®]
ENGINEERING COMPANY, INC.
PUBLIC WARNING PRODUCTS

hss Engineering
Bredskiftevej 12
DK 8210 Aarhus V
Phone + 45 70 22 88 44
Fax + 45 70 22 88 66
www.hss.dk
email hss@hss.dk

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ELECTRICAL

- **Battery Charger Input:** 120VAC, 60Hz, 7A fuse or 240 VAC 50Hz 5A fuse
- **Battery Charger Output:** 28VDC, 5A #
- **Batteries:** 2-12V, 80AH sealed 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^①
- **VC2020LL, VC2020H, VC2020U** - Two-Way Radio Control/ Status Monitoring, COMM/STAT™^①
- **VC2020NH, VC2020NU** - Two-Way Narrow-Band Radio Control/ Status Monitoring, COMM/STAT™^②
- **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^②
- **VTXKIT** - Upgrade Kit to Upgrade VORTEXR2 into a VORTEXR3; 2ea. VTXKIT would Upgrade to VORTEXR4
- **BSETVOR** - One Pair of Batteries

NOTES

- ① 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, 2-3dB gain omni-directional antenna with bracket, 15 m of RG213 antenna cable and polyphaser.
- ② Solar power option includes 2 - 80 watt panels, mounting bracket and regulator
- ③ Contact Factory

Acoustic Performance

SPL @ 100': 126dB

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.

