

FRONTLINE PLUS, INC.

8004 Aetna Avenue N.E.
 Monticello, MN 55362
 1-800-879-3177-Outstate
 1-763-295-3650-Metro&Fax

QUOTE

Date	
5/10/2010	1143

Name / Address
City Of Delano PO Box 108 Delano, Mn.55328 Attn; A/P

Terms	Due Date	FOB
Net 20 Days.	5/30/2010	Dest/Site

Item	Description	Qty	Cost	Total
VORTEX/R4	<p>This quotation is for one (1) new Siren for the development between Franklin Township and Delano. This proposed unit is a rotating non-voice siren similar to the last 5 sirens Delano has purchased.</p> <p>VORTEX/R4 Electronic Outdoor Warning Siren; 129dBc/100ft, 70dBc/6000ft (Est). 4-400watt speaker drivers, Controls w/Radio receiver for siren set at one-way activation and two-way stand-by. Pole mounting bracket, 50ft cable from siren head to control box. Si-Test Feature. 6-Siren Tones. Activation via DTMF.</p>	1	14,090.00	14,090.00T
BYTEL RAD...	<p>BYTEL RADIO PACKAGE- Consisting of One SMA to Male Adapter, One BWEN Radio Board w/ Motorola CP 200 Radio, Antenna, Polyphaser, 45ft Radio Jumper Cable.</p>	1	1,450.00	1,450.00T

QUOTE ONLY. 60 DAYS Above Date.	Subtotal
	Sales Tax (6.875%)
	Total

E-mail
frontlineplus@tds.net

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Item	Description	Qty	Cost	Total
POLE TOP B...	VPTB #01-0411446-00. Pole Top Mounting Bracket.	1	0.00	0.00T
SOLAR PO...	Two (2) 80 Watt Solar Power Panels.	1	3,000.00	3,000.00T
AC Delco DC ...	78-7YR Battery for extended reserve capacities.	2	141.95	283.90T
Installation	Installation: Complete turn-key installation. Includes 55ft wood pole, all required materials, Solar Shutoff as required by NEC and heavy installation equipment.	1	4,500.00	4,500.00T

QUOTE ONLY. 60 DAYS Above Date.	Subtotal	\$23,323.90
	Sales Tax (6.875%)	\$1,603.52
	Total	\$24,927.42

E-mail
frontlineplus@tds.net

Quotation

Northern Safety Technology, Inc.
PO Box 328
Farmington, MN 55024

Quotation Number: 52010 MD

Date: 20-May-10

877-891-0333 Toll Free
 651-460-1293 Metro
 651-460-2499 Fax

Customer: Delano, City of
 Address: PO Box 108
 234 2nd St. North
 City, State, ZIP: Delano, MN 55328

Contact: Robert VanLith
 Phone: 763-972-0550
 Fax: 763-972-6174
 email:

Item number	Description	Quant.	Price	Ext. Price
VORTEX/R4	Outdoor Warning Siren for new housing development Whelen Vortex/R4 Electronic Outdoor Warning Siren 4-400w Speaker Drivers; 129DbC @ 100' Controls w/radio receiver set for one way activation and two way standby. 6 warning tones with Si-Test feature and activation via DTMF Auxiliary Input and Intrusion Alarm	1	15,495.00	15,495.00
VPTB	Pole mount Bracket 01-411446-00 50' siren to control panel cable			
BSETVOR	2 Whelen approved batteries 78-7YR			
Bytel Radio	Radio Package, BWEN radio board w/Motorola CP200 Radio & Antenna, Polyphaser, 45' radio jumper cable, SMA to Male Adapter	1	1,695.00	1,695.00
VSBC80	2-80 watt panels, mounting bracket and regulator	2	1,695.00	3,390.00
Installation	Turn Key installation. To include a 55' Pole, NEC required Soalr Shut off, and all required materials	1	5,449.00	5,449.00
Price Quoted is FOB Destination				
			Subtotal	\$ 26,029.00
			Sales Tax	\$ 1,691.89
			Total	\$ 27,720.89

x *Robert VanLith* **FAXED**

All Hazard High-Power Siren System

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 Speaker Cells Active
- Two Compartment (Type I) Natural Finish Aluminum Cabinet
- 129dB @ 100'
- VORTEXR4 Speaker Includes Four 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
- 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

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

NOTES:

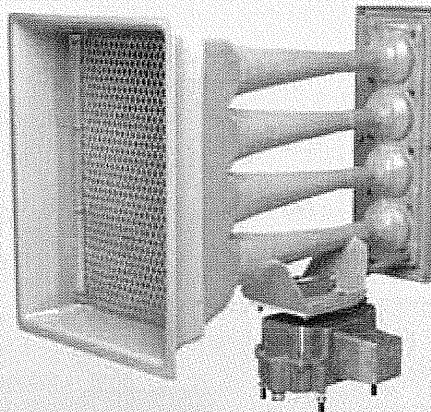
- ❶ Solar power option. 2 - 80 watt panels, mounting bracket and regulator.

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



VORTEXR4 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)



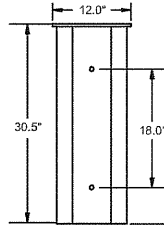
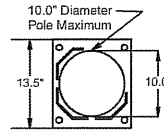
TYPE I ELECTRONIC CABINET (with service door open shows control panel and battery tray with optional batteries).

VORTEXR4

Specification Data

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)
VORTEXR4 Speaker & Rotor	49.0 (124.5)	28.5 (72.4)	56.0 (142.2)	234 (106.1)
Electronics Cabinet - Type I	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	83 (37.7)*
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)



Pole Top Bracket (Optional VPTB)

WHELEN[®] 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. Tornado photo courtesy NOAA/NSSL.
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041806-11358C

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: 88A, 24VDC
- Power amplifier output power: 1600 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:

- VORTEXR4 - 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
- VPTB - Speaker Pole Top Bracket
- 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, 35' of RG58 antenna cable and polyphaser.
- ② Solar power option includes 2 - 80 watt panels, mounting bracket and regulator
- ③ Contact Factory

Acoustic Performance

SPL @ 100': 129dB

Estimated 70dB range: 6,000'

Estimated 60dB range: 12,000'

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.

