

## All Hazard High-Power Siren System

*Whelen's OMNI-ALERT™ Series provides an economical alternative for powerful omni-directional siren warning without compromising quality.*

### SYSTEM FEATURES

- **OA1** – One omni-directional speaker cell assembled in a vertical column
- Two-compartment (Type I) natural finish aluminum cabinet
- Speaker cell includes one high efficiency 400 watt speaker driver
- Pole top mounting bracket included
- Battery powered. Minimum of 15 minutes of full power output with batteries of our recommendation
- AC temperature compensated 5 amp battery charger
- 50' (15.24m) cable included
- Local controls or remote controls
- One power amplifier
- Electronic siren controller
- Tone generator timer
- Local control push-buttons
- **SI TEST**<sup>®</sup>
- Low battery alarm
- Battery tray
- Lightning arrestor
- Six standard public warning tones - Wail, Whoop, Attack, Hi-Lo, Alert, Airhorn



Type I  
Electronic Cabinet



### 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 for other recommended batteries
- **VisuAlert™** – Omni-Directional visual warning Model **VALERT\*** for OA Series
- **L31H\*F4** – Top mount high dome beacon for OA Series, 24 VDC

### 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.

### ONE-WAY CONTROLS

- **OAUXIN** - Auxiliary board for contact closure activation
- **OD2030LL** - 10 Digit DTMF landline activation
- **OD230NV** - 10 Digit DTMF VHF High-Band Narrow-Band / 138-174 MHz
- **OD230NU** - 10 Digit DTMF UHF Narrow-Band 450-470 MHz
- **OTT** - Two-tone sequential option

### TWO-WAY CONTROLS

- **OAUXCS** - Two-way contact closure activation and status board
- **OC2030LL** - Two-way landline activation.
- **OC230NV** - 10 digit DTMF VHF High-Band Narrow-Band/138-174 MHz
- **OC230NU** - 10 Digit DTMF UHF Narrow-Band 450-470 MHz

### OPTIONS

- **OPGINT1** - Paging interface to interface Whelen tones with existing paging systems
- **OSTATUS** - Cabinet window LED status indicator
- **OINTRU** - Intrusion alarm (available with two-way only)

# OA1 One Cell



## Specifications

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)
OA1 Speaker	18.8 (47.75)	33.40 (84.84)	-	119 (53.98)
Electronics Cabinet Type I (Aluminum)	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	62 (28.2)
Pole Top Bracket	30.5 (77.47) (with top plate)	12.0 (30.5) x 13.5 (34.3)	See Drawing	71 (32.20)

Batteries add 90 lbs. Pallets, boxes and skids add weight.  
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 output power:** 400 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

- **OA1** – Speaker Assembly & Electronics Cabinet & Pole Top Bracket
- OPTIONS:**
- **OAUXIN** – Auxiliary board for contact closure activation
- **OAUXCS** – Auxiliary / status control board for contact closure activation and status
- **OD2030LL, OD230NV, OD230NU** – One-way Narrow-Band radio control
- **OC2030LL, OC230NV, OC230NU** – Two-way Narrow-Band radio control / status monitoring, COMM/STAT™
- **OTT** - Two-tone sequential
- **OSTATUS** – Cabinet window LED status indicator
- **OPGINT1** – Paging interface to interface Whelen tones with existing paging systems
- **OINTRU** – Intrusion alarm
- **OSBC280** – Solar power, 2 x 80W
- **OBATT** – One pair of batteries
- **VALERT\*** – VisuAlert™ 360° highly effective LED warning accessory
- **L31H\*F4** – L31 LED, 24VDC

\* Replace symbol in model number with letter indicating LED color desired:  
A = Amber; B = Blue; C = Clear/White; R = Red

### NOTES

● 10 digit DTMF Controls • Landline • VHF High-Band 138-174 MHz • UHF/450-470 MHz  
Our VHF High and UHF 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.

## OA1 Acoustic Performance

**Wattage:** 400 watts

**Estimated 70dB range:** 1,400 ft / 425 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.

## MASS NOTIFICATION PRODUCTS

Whelen Engineering Company, Inc.

51 Winthrop Road  
Chester, Connecticut 06412-0684  
860-526-9504  
800-637-4736  
www.whelen.com  
iowsales@whelen.com

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