HORNET™

Economical All Hazard Siren System

Whelen's HORNET Series All Hazard Sirens provide an economical alternative for replacing outdated electro-mechanical sirens.

SYSTEM FEATURES

- **HORNET -** Speaker assembly
- Two-Compartment (Type I) natural finish aluminum cabinet
- Speaker includes one high efficiency 400 watt speaker driver
- 50' (15.24m) Cable
- 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
- One power amplifier
- Rotor
- Electronic siren controller
- Tone generator timer
- Local control push-buttons
- **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
- Low battery alarm (two-way only)

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 the factory for special applications.

The following are available as standard options. **BOLD BLUE** indicates the Whelen Model:

ONE-WAY CONTROLS

- **HAUXIN** - Auxiliary board for contact closure activation
- **HD2030LL** - 10 digit DTMF landline activation
- **HD230NV** - 10 digit DTMF VHF high band narrow band / 138-174 Mhz
- **HD230NU** - 10 digit DTMF UHF narrow band / 450-470 Mhz
- **HORTT** - Two-tone sequential option

TWO WAY CONTROLS

- **HAUXCS** - Two-way contact closure activation and status board
- **HC2030LL** - Two-way landline activation
- **HC230NV** - 10 digit DTMF VHF high band narrow band / 138-174 Mhz
- **HC230NU** - 10 digit DTMF UHF narrow band / 450-470 Mhz

OPTIONS

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

HORNET mounted on Rotor

UL® LISTED

TYPE I Electronic Cabinet with optional Batteries (BSETHOR)

HORNET™

Specifications

Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)
HORNET Speaker & Rotor	41.0 (104.2)	30.5 (77.5)	23.0 (58.4)	100 (45.4)
Electronics Cabinet Type I	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	67 (30.5)*
Pole Top Bracket (Optional)	See Drawing			71 (32.3)

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

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,
- **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
- **HORNET** - Speaker assembly & electronics cabinet

OPTIONS
- **HAUXIN** (one-way) / **HAUXCS** (two-way) - Auxiliary boards for contact closure activation
- **HD2030LL / HD230NV / HD230NU** - One-way radio controls
- **HC2030LL, HC230NV/ HC230NU** - Two-way radio controls
- **HORTT** - Two-tone sequential
- **HSTATUS** - Cabinet window LED status indicator
- **HPGINT** - Paging interface to interface Whelen tones with existing paging systems
- **HINTRU** - Intrusion alarm
- **HSBC80** - Solar power ❶
- **HPTB** - Speaker pole top bracket
- **BSETHOR** - One pair of batteries

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

Hornet Acoustic Performance

Wattage: 400 watts
Estimated 70dB Range: 2400 ft / 730 m
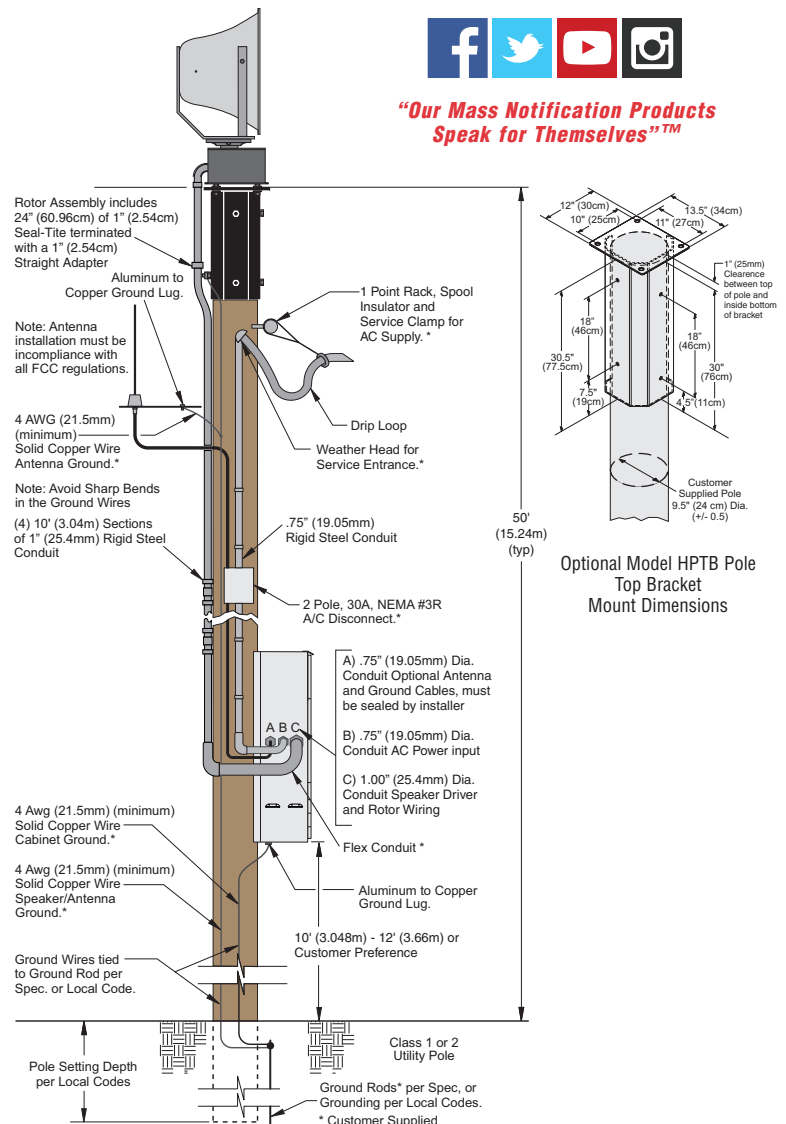
*"Our Mass Notification Products
Speak for Themselves"™*

Rotor Assembly includes 24" (60.96cm) of 1" (2.54cm) Seal-Tite terminated with a 1" (2.54cm) Straight Adapter

Aluminum to Copper Ground Lug.

Note: Antenna installation must be incompliance with all FCC regulations.

4 AWG (21.5mm) (minimum) Solid Copper Wire Antenna Ground.*

Note: Avoid Sharp Bends in the Ground Wires

(4) 10' (3.04m) Sections of 1" (25.4mm) Rigid Steel Conduit

1 Point Rack, Spool Insulator and Service Clamp for AC Supply. *

Drip Loop

Weather Head for Service Entrance.*

.75" (19.05mm) Rigid Steel Conduit

2 Pole, 30A, NEMA #3R A/C Disconnect.*

A) .75" (19.05mm) Dia. Conduit Optional Antenna and Ground Cables, must be sealed by installer

B) .75" (19.05mm) Dia. Conduit AC Power input

C) 1.00" (25.4mm) Dia. Conduit Speaker Driver and Rotor Wiring

A B C

Flex Conduit *

Aluminum to Copper Ground Lug.

4 Awg (21.5mm) (minimum) Solid Copper Wire Cabinet Ground.*

4 Awg (21.5mm) (minimum) Solid Copper Wire Speaker/Antenna Ground.*

Ground Wires tied to Ground Rod per Spec. or Local Code.

10' (3.048m) - 12' (3.66m) or Customer Preference

50' (15.24m) (typ)

Pole Setting Depth per Local Codes

Class 1 or 2 Utility Pole

Ground Rods* per Spec, or Grounding per Local Codes.
* Customer Supplied

12" (30cm)
10" (25cm)
13.5" (34cm)
11" (27cm)

1" (25mm) Clearance between top of pole and inside bottom of bracket

18" (46cm)
18" (46cm)

30.5" (77.5cm)
30" (76cm)

7.5" (19cm)
4.5" (11cm)

Customer Supplied Pole 9.5" (24 cm) Dia. (+/- 0.5)

Optional Model HPTB Pole Top Bracket Mount Dimensions

⚠ WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

ISO 9001 Registered QMS