# VIP-480L IP Paging Horn

## INTRODUCTION

The VIP-480L IP Paging Horn is a self contained paging system which enables voice paging up to 1200 feet from an Ethernet connection.  The VIP-480L consist of a high efficiency 3 Watt Class-D Horn and a VIP-LLE Network Extender allowing stand alone capability when used with a SIP Phone System or can be accessed from a variety of Valcom managed VoIP products.

## SPECIFICATIONS

### Access Methods

- PBX, FXO Port w/VIP-811
- POTS telephone set w/VIP-811
- PBX, FXS Port w/VIP-821
- Valcom M Cast Page Group
- SIP

### Features

- RJ-45 network connection
- LED Status Indicator
- Network activity LEDs
- 802.3af compliant
- High Efficiency Class-D 3 Watt Amplifier

### Dimensions/Weight (HORN)

- 6.8"H x 8.3"W x 3.3" D
  (17.3cm H x 21.1cm W x 8.4cm D)
- 2.1 lbs. (0.95 kg)

### Network Extender (VIP-LLE)

- 1.30" H x 6.10" W x 6.00" D
  (3.51 cm H x 15.72 cm W x 13.51 cm D)
- Weight:   0.85 lbs.  (0.39 kg)

### Nominal Specifications – HORN

| | |
|---|---|
| Input Impedance: | 600 Ohms |
| Input Level: | -10dBm |
| Output Impedance: | 600 Ohms |
| Output Level: | -10dBm nominal |

### Nominal Specifications – VIP-LLE
**Via 802.3af PoE Ethernet Switch:**

Class 3 (12.95W)

### Environment

| | |
|---|---|
| Temperature: | 0 to +40° C |
| Humidity: | 0 to 85% non-precipitating |

### Packing List

| Qty | Item |
|---|---|
| 1 | VIP-LLE Network Extender |
| 1 | 3 Watt High Efficiency Horn |
| 1 | VSP Document |
| 2 | Mounting Brackets |
| 1 | VIP Quick Start Guide |
| 4 | Rubber Feet |
| 4 | Wood Screws |
| 1 | RJ-45 Termination Block |
| 1 | RJ-45 Patch Cable |
| 1 | "C" Clamp |

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# INSTALLATION

## FCC Information

*This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at his own expense.*

## Precautionary Designations



### CAUTION
**RISK OF ELECTRIC SHOCK**
**DO NOT OPEN**

CAUTION:  To reduce the risk of electric shock,
Do not remove cover.
No user serviceable parts inside.
Refer servicing to qualified service personnel.

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

## Mounting (VIP-LLE)

The VIP-LLE Network Extender is designed for wall or shelf mounting and must be within 300 feet of the network switch.

**Shelf:** Provided with the VIP-LLE Network Extender are four rubber stick on feet.  Peel these feet off their carrier backing and place at the four corners of the bottom of the unit.

**Wall:** Using the brackets and wood screws provided, secure the VIP-LLE Network Extender to the wall.

## Mounting (HORN)

### FLUSH MOUNT

Using the template packaged with the speaker, draw the speaker outline on the wall to be cut. Make appropriate wiring connections and test the speaker for operation.  Using appropriate mounting screws (not furnished) drill and mount the flange as shown.

### UNIVERSAL BRACKET

Loosen or separate the universal bracket leaves by loosening or removing the handle and hardware.  Using the back leaf as a template, mark the wall through the mounting holes, drill and mount to the wall using appropriate screws (not furnished) or mount directly to a junction box. Mount the T-bracket to the back of the horn as shown using the (2) ½ inch screws provided.

### "C" CLAMP FOR "I" BEAM MOUNTING

A "C" clamp is provided with the horn to allow mounting to a beam.  Place the bolt through the hole in the bottom of the base to secure the "C" clamp to the beam.  It is suggested that the horn be mounted to the underside of the "I" beam to provide maximum positioning adjustments. Mount (2) ½ inch screws provided.

## Interconnections

The only method of powering a VIP-480L IP Paging Horn is via a power over Ethernet switch or power injector meeting the 802.3af specification.

Make all required signal connections before connecting to Ethernet switch or power injector meeting the 802.3af specification.  Power is supplied to the horn assembly via the VIP-LLE Network Extender.

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## Network Connection (Fig. 1)
The VIP-LLE Network Extender has one CAT-5 RJ-45 "NETWORK" connector and one CAT-5 color-coded connector on the rear panel.

Use the supplied CAT-5 patch cable to connect the NETWORK connector of the VIP-LLE Network Extender to a 802.3af compliant PoE port (300 feet maximum distance).

## Signal Connections (Fig. 1)
Connect CAT-5 cable from the rear panel color coded connector of the VIP-LLE Network Extender to the supplied RJ-45 terminal block (900 feet maximum distance). Using the supplied CAT-5 patch cable to connect to RJ-45 connector to horn to RJ-45 termination block.

## Status Indicator Lights
The VIP-LLE Network Extender has 3 status indication lights:

**STATUS:** Flashes during normal operation, and solid when unit in reset.

**LINK:** Indicates 100 Mbit Ethernet connection when illuminated. No activity indicates 10 Mbit connection.

**ACT:** Indicator flashes to indicate network activity.

## Operation:
Provides paging from SIP connection or from another Valcom VIP unit. Interface to customer telephone system can be via SIP registration, FXO port (with VIP-811), or FXS port (with VIP-821).
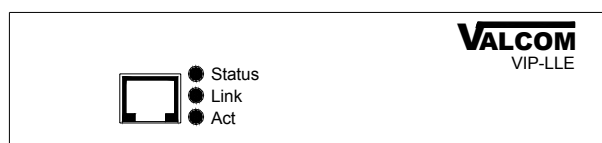


**Front View**
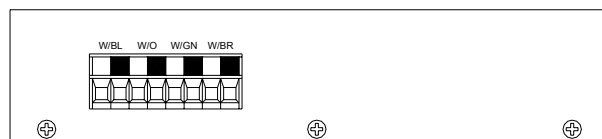


**Rear View**

# TECHNICAL ASSISTANCE

Assistance in troubleshooting is available from the factory. Call (540) 563-2000 and press 1 for Technical Support or via email at support@valcom.com.

When requesting assistance, you should include all available information. It is strongly suggested that you go to the web site and follow the trouble resolution procedure at http://voip.valcom.com.

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating your company name, address, phone number, contact person and the nature of the problem. Send the unit to:

**Valcom, Inc.**
**Repair & Return Dept.**
**5614 Hollins Road**
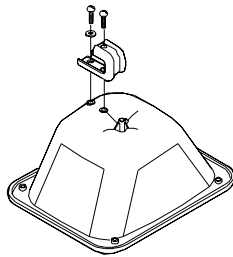**Roanoke, Va. 24019-5056**

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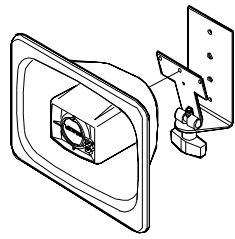
## UNIVERSAL BRACKET

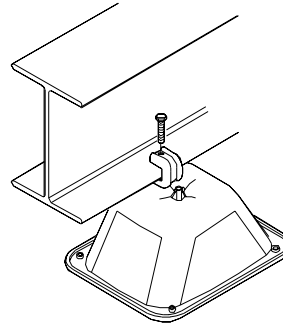SURFACE MOUNTED WITH A
UNIVERSAL MOUNTING BRACKET
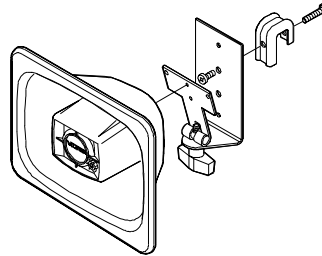
UNIVERSAL BRACKET WITH CLAMP
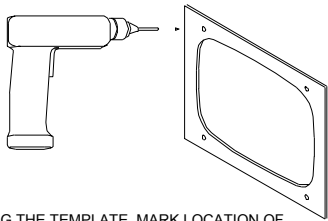
## "C" CLAMP FOR "I" BEAM MOUNTING
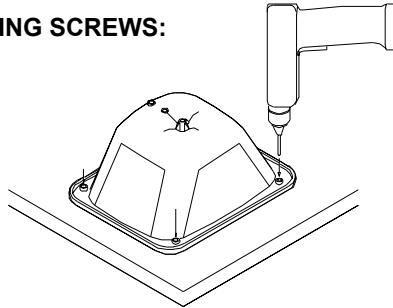
ATTACH CLAMP TO HORN
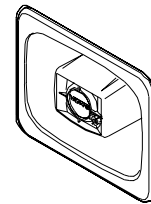
ATTACH FLEXHORN TO BEAM

## FLUSH MOUNT USING MOUNTING SCREWS:

USING THE TEMPLATE, MARK LOCATION OF
OPENING AND MOUNTING HOLES ON WALL.
DRILL HOLES APPROPRIATE TO MOUNTING
HARDWARE AND CUT OUT THE OPENING.

HOLDING FLEXHORN FIRMLY AGAINST A FLAT
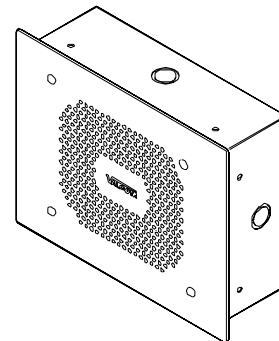SURFACE, DRILL THROUGH EACH MOUNTING BOSS
AS SHOWN.

FLUSH MOUNTING IN A STUD WALL
INSTALLED WITH MOUNTING SCREWS
OR CONSTRUCTION CEMENT.
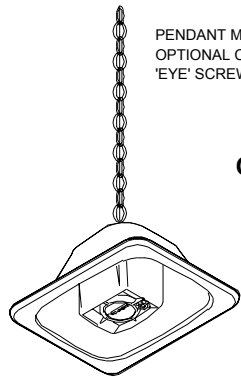
PENDANT MOUNTING WITH
OPTIONAL CHAIN AND
'EYE' SCREW

## OTHER MOUNTING OPTIONS:

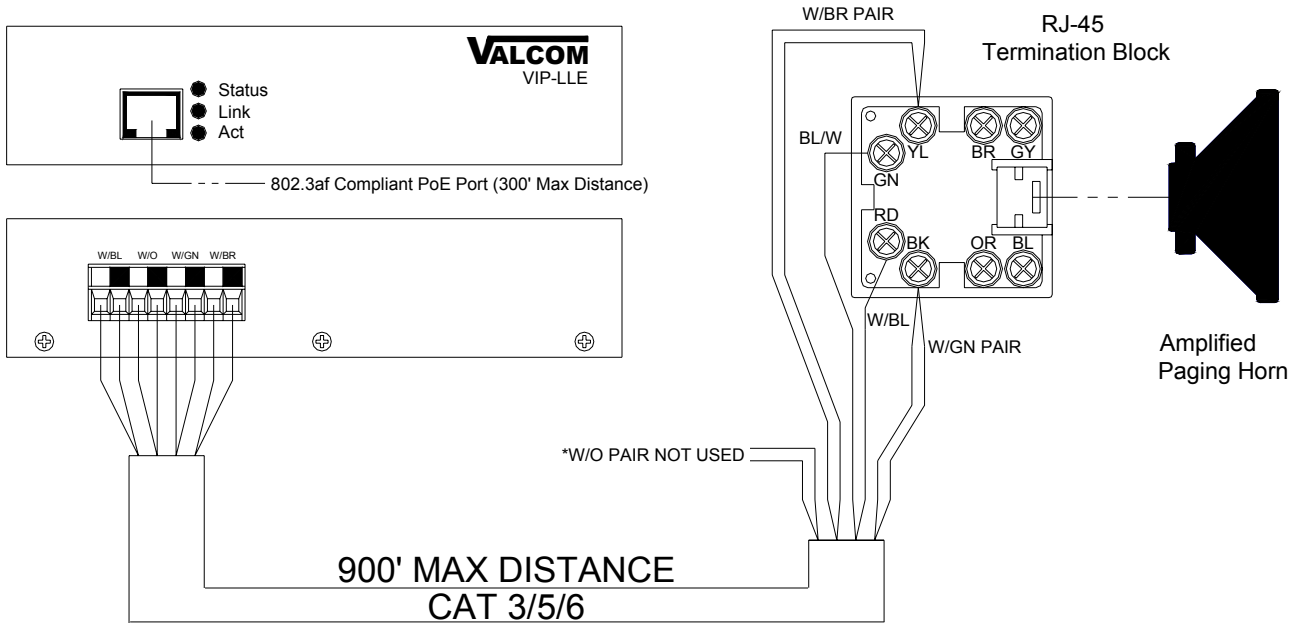OPTIONAL V-9805
VANDAL RESISTANT ENCLOSURE

**FIGURE 1**

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**VALCOM LIMITED WARRANTY**

Valcom, Inc. warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment.  The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1.      inspection by Valcom, Inc. indicates the validity of the claim;
2.      the defect is not the result of damage, misuse, or negligence after  the original shipment;
3.      the product has not been altered in any way or repaired by others and that factory sealed units are unopened (a service charge plus parts and labor will be applied to units defaced or physically damaged);
4.      freight charges for the return of products to Valcom are prepaid;
5.      all units 'out of warranty' are subject to a service charge.  The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

**This warranty is in lieu of and excludes all other warranties, expressed or implied and in no event shall Valcom, Inc. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, or use of the product.**

This warranty specifically excludes damage incurred in shipment.  In the event a product is received in damaged condition, the carrier should be notified immediately.  Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

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