

# V-GUARDIAN ALERT

## VIP-BBH V-Guardian PoE Power Hub

### INTRODUCTION

The VIP-BBH V-Guardian PoE (Power over Ethernet) Power Hub is a component of the V-Guardian Alert system. It is a PoE powered network device that incorporates a wireless beacon, using Bluetooth Low Energy technology, that provides location information to the V-Guardian Alert Badge. The VIP-BBH also includes a 24VDC power output to support up to 11 V-BBP V-Guardian Beacons and provide wireline supervision to those beacons.

### Features

- Uses Bluetooth Low Energy technology
- Small, unobtrusive packaging
- PoE (Power over Ethernet) compatible
- Can power and supervise up to 11 V-BBP Beacons.
- Status LED



### SPECIFICATIONS

#### Power Requirements

PoE 802.3af or 802.3at compatible

#### Dimensions/Weight

1.25" H x 6.38" Diam. (3.2cm H x 16.2cm Diam.)

Weight 0.43 lbs (195 g)

#### Environment

Temperature: 0 to +50°C

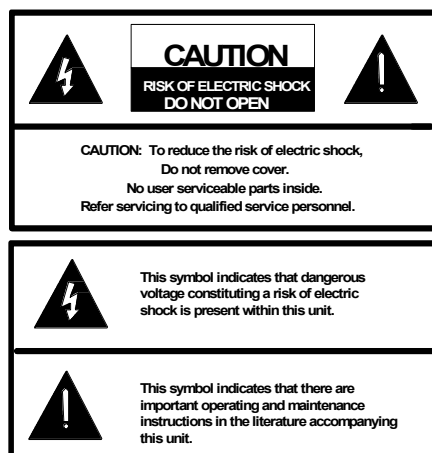
Humidity: 0 to 80% (non-precipitating)

Indoor installation only.

#### IMPORTANT SAFETY INFORMATION

##### CONSIGNES DE SÉCURITÉ IMPORTANTES

1. Read these instructions.  
Lisez ces instructions.
2. Keep these instructions.  
Conservez ces instructions.
3. Heed all warnings.  
Respectez tous les avertissements.
4. Follow all instructions.  
Suivez toutes les instructions.
5. Do not use this apparatus near water.  
Ne pas utiliser cet appareil près de l'eau.
6. Clean only with dry cloth.  
Nettoyer avec un chiffon sec.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.  
Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.  
Ne pas installer à proximité de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.  
Ne pas contourner le dispositif de sécurité de la fiche polarisée ou de mise à la terre. Une fiche polarisée possède deux lames dont une plus large que l'autre. Une fiche de terre a deux lames et une troisième broche de mise à la terre. La lame large et la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, veuillez consulter un électricien pour le remplacement de la prise obsolète.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.  
Ne pas contourner le dispositif de sécurité de la fiche polarisée ou de mise à la terre. Une fiche polarisée possède deux lames dont une plus large que l'autre. Une fiche de terre a deux lames et une troisième broche de mise à la terre. La lame large et la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, veuillez consulter un électricien pour le remplacement de la prise obsolète.
11. Only use attachments/accessories specified by the manufacturer.  
N'utilisez que des fixations / accessoires spécifiés par le fabricant.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.  
Utilisez uniquement avec le chariot, stand, trépied, support ou table spécifié par le fabricant ou vendu avec l'appareil. Quand un chariot est utilisé, Soyez prudent lorsque vous déplacez l'ensemble chariot / appareil pour éviter des blessures dues au renversement.
13. Unplug this apparatus during lightning storms or when unused for a long period of time.  
Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé longue période de temps.
14. Refer all servicing to qualified service personnel. Servicing is required if the apparatus has been damaged in any way. Such as when the power supply cord is damaged, liquid has been spilled, objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture and does not operate normally or has been dropped.  
Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon. Par exemple lorsque le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé, si des objets sont tombés dans l'appareil ou le appareil a été exposé à la pluie ou à l'humidité et ne fonctionne pas normalement ou s'il est tombé.



## Precautionary Designations

- **WARNING-To Reduce The Risk Of Fire Or Electric Shock. Do Not Expose This Apparatus To Rain Or Moisture**
- **AVERTISSEMENT - Afin de réduire les risques d'incendie ou de décharge électrique, évitez d'exposer le système à la pluie ou à l'humidité.**
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- L'appareil ne doit pas être exposé à des égouttements et éclaboussures et aucun Objet Rempli de liquide, comme vase, ne doit être placé sur l'appareil.

## FCC Information

Contains FCC ID: 2A094-MK14

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  - (1) This device may not cause harmful interference.
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## INSTALLATION

### Mounting

The VIP-BBH can be wall or ceiling mounted. Before mounting, twist the cover of the VIP-BBH counterclockwise to separate the cover from the base.

**Wall or other Hard Surface Mount:** The base has screw holes at the top and bottom near the edge of the circuit board. The center two holes are spaced to mount on a single-gang electrical box. The outer four holes are spaced to mount on a 4" square electrical box. See Figure 1.

If using surface wiring, a breakaway tab is provided at the top of the base to route the wiring into the base. Route the ethernet cable and (optional) V-BBP power and supervision wiring through the base. Optional supervision capability is discussed in later sections. Use appropriate screws (not provided) to attach the base to the surface. See Figure 1A.

**NOTE:** The hole in the center of the base is for the V-BBMC-5 ceiling grid mounting clip. Do not use this hole for attachment with screws or other fasteners.

**Suspended Ceiling Grid with V-BBMC:** For suspended tile ceilings, optional mounting clips are available as part number V-BBMC-5 (5 pack). The clips facilitate mounting to the ceiling grid main beam or cross tee. Attach the V-BBMC clip to the ceiling grid following the instructions for the V-BBMC. The VIP-BBH base is attached to the clip using the large hole in the center of the base. Position the hole in the base on the machine screw extending from the bottom of the clip. Use the threaded knob provided with the V-BBMC to secure the base to the clip. Route the wiring through the ceiling tile and base. See Figure 2.

After the base has been securely mounted and wiring connections made, replace the cover on the base by lining up the tabs of the VIP-BBH cover with the slots in the base and twisting clockwise to secure. **Note:** The tabs and slots are different sizes so that the cover will only properly attach one way.

### Network Connection

Use a standard patch cable to connect the VIP-BBH to an Ethernet switch providing Power over Ethernet (PoE) meeting the 802.3af or 802.3at specification. If the switch does not provide power, a mid-span power injector may be used.

### Reset

The Reset button may be used to return the unit to factory default settings. Press and hold the reset button for more than 10 seconds, but less than 20, to reset the IP address and other configuration to factory default. Press and hold the reset button for more than 20 seconds to reset all configuration, including the password.

## Connecting V-BBP Beacons

Multiple external V-BBP Beacons can be connected to the VIP-BBH to receive power and optionally be supervised by the VIP-BBH. The Supervision function monitors the wiring connection to each V-BBP. If any of the connected V-BBP Beacons loses connection to the VIP-BBH, the VIP-BBH will illuminate a Red LED that is visible through its cover. Additionally, a message can be sent from the VIP-BBH over the network to a Valcom Site Manager server to trigger an alert of the failure.

Wiring to the V-BBP Beacons uses standard Cat3 (or better) UTP cable. Attach power and supervision wires to the screw terminals of the VIP-BBH using the connection diagram shown in Figure 3.

Complete information for connecting multiple V-BBP Beacons, including required jumper settings, is included in the documentation for the V-BBP Beacon.

A typical diagram of the connections is shown in Figure 4.

## Setup

Setup Information specific to your application will need to be programmed into the VIP-BBH using a computer. The PC used for programming should be connected to the same subnet as the VIP-BBH. Setup will be done using the IP Solutions Setup Tool. Download the latest version

of the free IP Solutions Setup Tool from the Valcom website at [www.valcom.com/vipsetuptool](http://www.valcom.com/vipsetuptool).

## TECHNICAL ASSISTANCE

When trouble is reported, verify that power is being supplied to the unit and there are no broken connections. If a spare unit is available, continue to troubleshoot by substituting the spare unit for the suspected defective unit.

Assistance in troubleshooting is available from the factory. When calling, you should have a VOM and other equipment necessary for troubleshooting. Call (540) 563-2000 or visit our website at <http://www.valcom.com>.

The VIP-BBH Beacon is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach the company name, address, phone number, contact person and the nature of the problem. Send the unit to:

**Valcom, Inc.**  
**Repair and Return Dept.**  
**5614 Hollins Road**  
**Roanoke, VA 24019-5056**

## WARRANTY

Warranty information may be found on our website at [www.valcom.com/warranty](http://www.valcom.com/warranty)

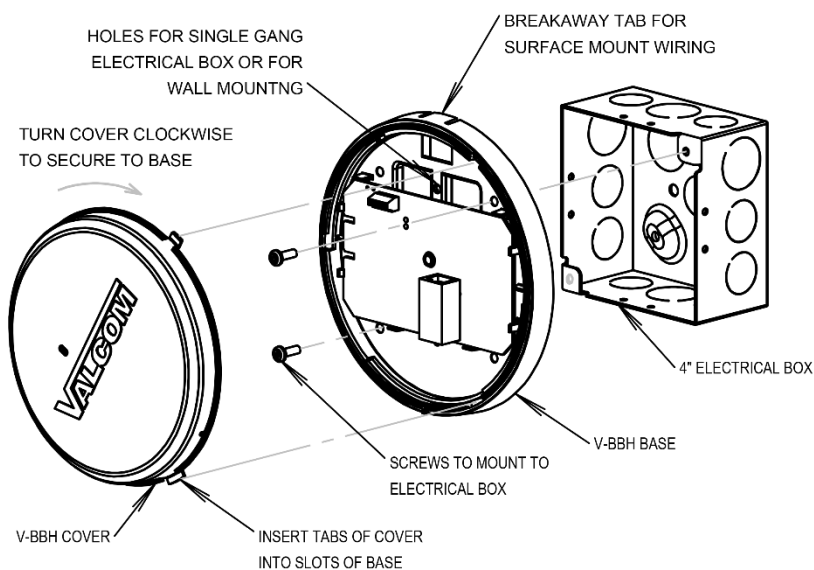


Figure 1

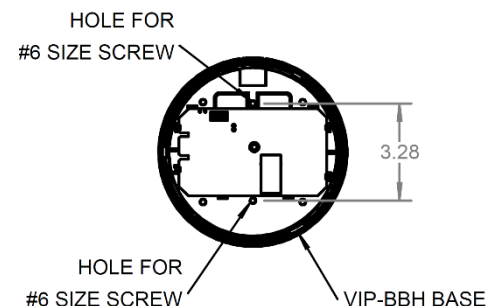


Figure 1A

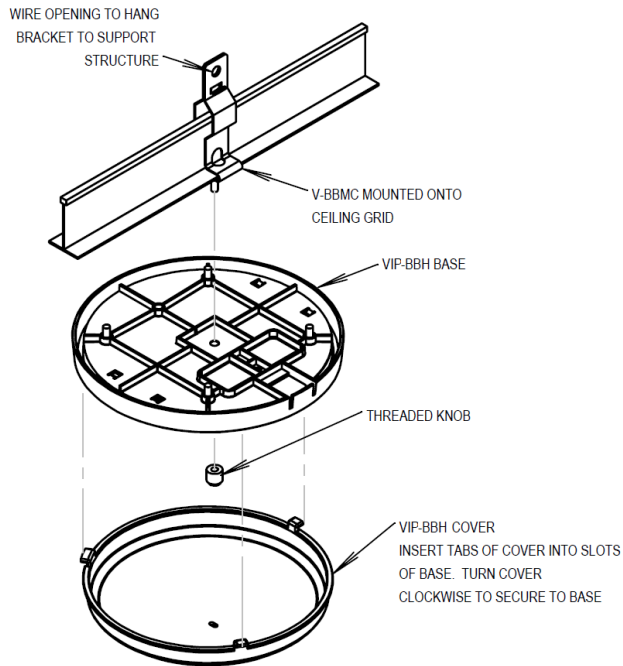


Figure 2

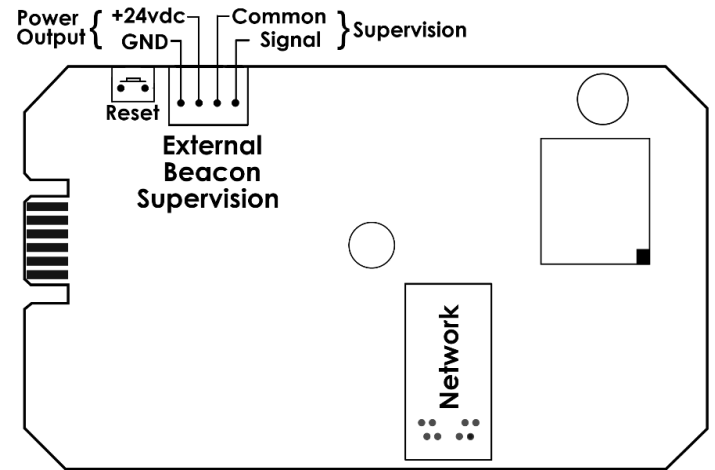


Figure 3

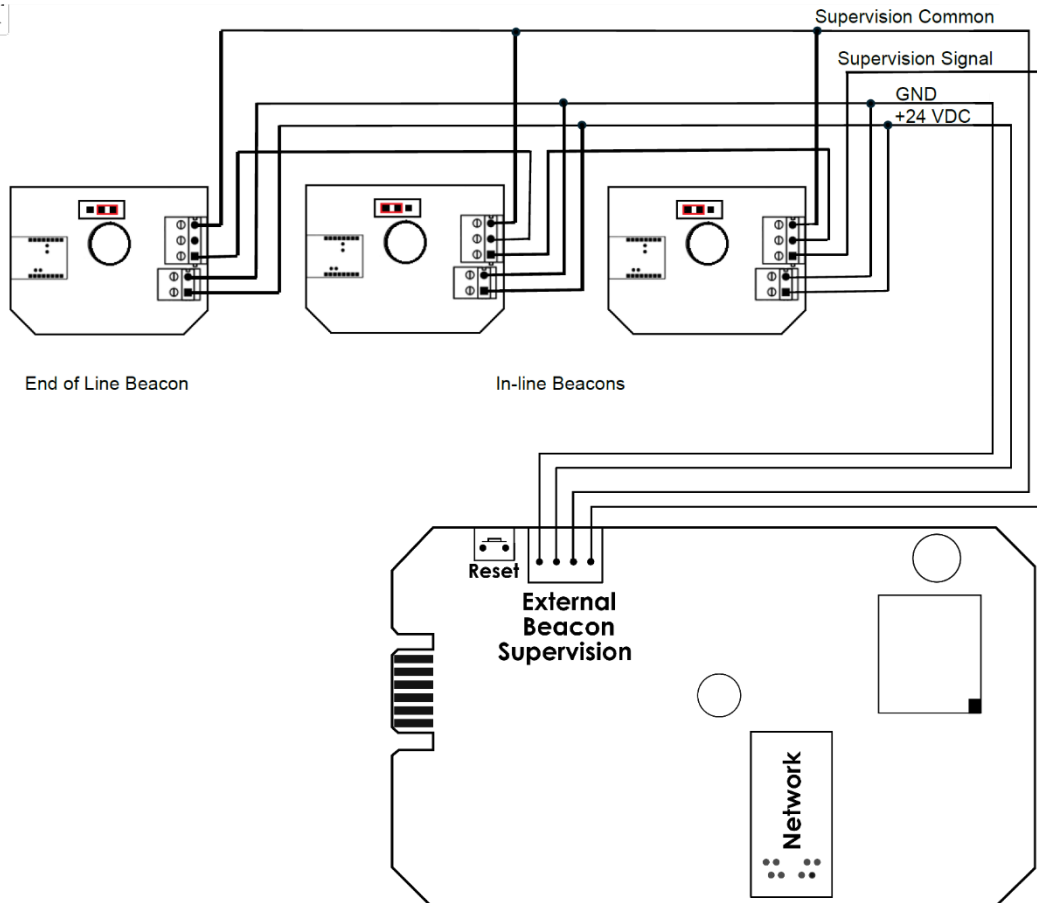


Figure 4