

INSTALLATION MANUAL – BMT-PAN1 Junction Box Wall Mount for Camera Housing

Unpacking

Unpack carefully. This is mechanical equipment and should be handled with care. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, notify Broadsight Systems, Inc. The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

Service

If the unit ever needs repair service, the customer should contact Broadsight Systems, Inc. for a return materials authorization (RMA) and shipping instructions.

Care and Maintenance

Perform routine maintenance to keep the unit dust free.

Model Designation

BMT-PAN1 Junction Box Wall Mount for Camera Housing

Description

This product incorporates a junction box with a feed-through wall mount for a PTZ dome camera. Cable routing for the camera is achieved through a hole in the junction box door. The hinged door allows for making connections easily while the housing is mounted. Multiple cable entry holes into the junction box allow for use of different size conduit.

Hardware Kit

None

Tools Required

- Appropriate customer-supplied mounting fasteners and wall anchors.
- Drill with appropriate size bit for anchors.
- 3/16 (5mm) Tamperproof Allen wrench or hex driver
- Phillips head screwdriver
- RTV

Certification

Camera installation should be performed by a licensed professional and conform to the National Electrical Code (NEC) and any applicable local codes.

Installation

1. Unit ships pre-assembled as shown in Figure 1.
2. The junction box includes the following clearance holes for conduit entry:
 - a. 2 x 1.375-in (1" conduit, left side, back)
 - b. 4 x 1-in holes (3/4" conduit, 2 bottom, 2 back)
 - c. 2 x 7/8-in holes (1/2" conduit, right side)
3. Four (4) mounting holes are provided. Select appropriate mounting hardware. **NOTE:** Fasteners used must have a minimum 200-lbs pull-out strength and must be stainless steel.

- a. The holes measure 0.44-in and accept bolt heads with a maximum diameter of 0.83-in. The wall thickness (shoulder) of the mounting holes is 1 1/4-in (i.e. the distance from the head of the bolt to the mounting surface is 1.25").

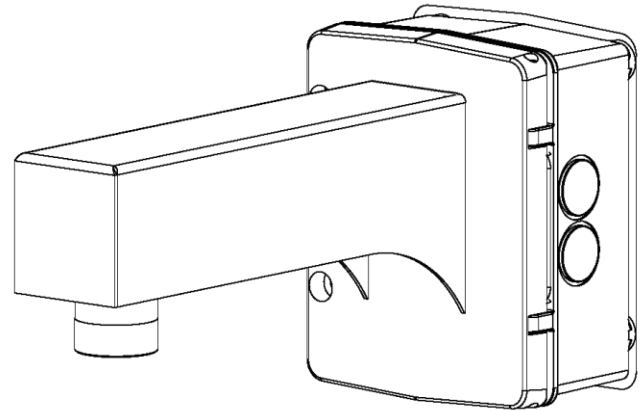


Figure 1 - BMT-PAN1

4. Open the lid of the box using a 3/16" Tamperproof Allen wrench or hex driver. Hold the box up to the mounting surface and mark the mounting hole locations.
5. Drill out the installation surface using an appropriate size drill bit for the wall anchors used. Insert wall anchors into holes.
6. Apply RTV around mounting holes or use a gasket to prevent water entry into the junction box.
7. Attach the junction box to the installation surface using customer-supplied fasteners.
8. Run cables and conduit to the installation site. Secure the conduit to the junction box and run cables into the box. Remove nuts with adjustable wrench if using 1" conduit holes.
9. If PTZ camera is pre-wired, run cables through mount into junction box to make connections. If camera is not pre-wired, feed site cables out through mount and make connections.
 - a. Before making connections, screw the PTZ onto the 1.5" NPT pipe nipple. This will allow the cables to rotate inside the mount without binding.
 - b. If desired, remove electrical panel from underside of mount using a Phillips head screwdriver.
 - c. Make wiring connections, then re-install the panel.
10. Complete wire connections and provide strain relief, then close box lid and tighten captive screws using 3/16" Tamperproof Allen wrench.