

VADDIO™ DOMEVIEW™ HD

INDOOR FLUSH MOUNT DOME ENCLOSURE FOR THE VADDIO HD-20, HD-19 AND HD-18 PTZ CAMERAS

Part Number: 998-9000-200

Touchboards

205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com



Overview:

The Vaddio 12" DomeVIEW HD Series Dome Enclosures for the ClearVIEW HD-20, HD-19 or HD-18 PTZ cameras are attractive and robust integrated HD security solutions for indoor and light-duty outdoor applications. The DomeVIEW HD Series offers three distinctly different products. In all cases, the cameras are not included. This manual covers the 12" Indoor Flush Mount Dome Enclosure.

Each Indoor Flush Mount Dome Enclosure includes a clear 12" optical-grade polycarbonate dome, metal back can and mounting hardware. A Smoke Tinted 12" accessory dome can be purchased as an option.

The Flush Mount Dome comes with a heavy-duty tile support brace to keep any tile from sagging, a white spin-form trim ring for depth and dimension with white cosmetic attachment screws.



12" Indoor Flush Mount Dome Enclosure with Clear Optical-Grade Dome for the HD-20, HD19 and HD-18 Vaddio Camera Systems

With safety in mind, the provided tile support brace has six (6) fly points that can be fitted with turn buckles and a safety hanger plate that fits on to the rear conduit connector to tie the enclosure up to the structure for additional strength and safety.

The Flush mount Dome Enclosure can be mounted in tile or a drywall ceiling as well. The mounting flange is broad enough to secure to most and hard ceiling. The DomeVIEW HD Series Domes are an excellent way to securely mount the Vaddio HD-20, HD-19 or HD-18 PTZ cameras for a wide range of HD video applications.

Intended Use:

Before operating the device, please read the entire manual thoroughly. The system was designed, built and tested for use **indoors**, and with the provided power supply and cabling. The use of a power supply other than the one provided or outdoor operation has not been tested and could damage the device and/or create a potentially unsafe operating condition.

Important Safeguards:

Read and understand all instructions before using. Do not operate any device if it has been dropped or damaged. In this case, a Vaddio technician must examine the product before operating. To reduce the risk of electric shock, do not immerse in water or other liquids and avoid extremely humid conditions.



Use only the power supply provided with the system. Use of any unauthorized power supply will void any and all warranties.



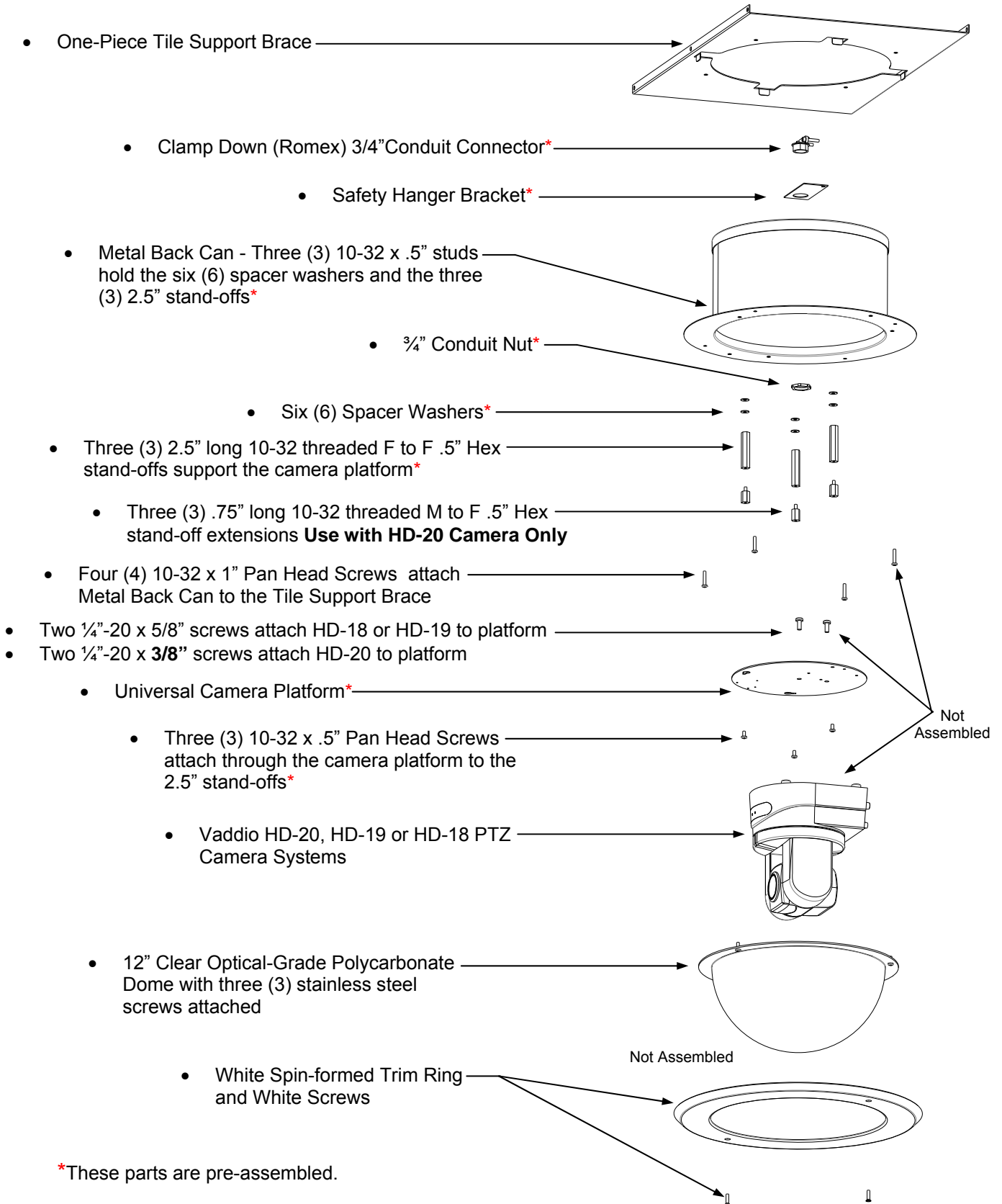
Please do not use "pass-thru" type RJ-45 connectors. These pass-thru type connectors do not work well for professional installations and can be the cause of intermittent connections which can result in the RS-232 control line failing and locking up, and/or compromising the HSDS™ signals. For best results please use standard RJ-45 connectors and test all cables for proper pin-outs prior to use and connection to Vaddio product.

Save These Instructions:

The information contained in this manual will help you install and operate your product. If these instructions are misplaced, Vaddio keeps copies of Specifications, Installation and User Guides and most pertinent product drawings for the Vaddio product line on the Vaddio website. These documents can be downloaded from www.vaddio.com free of charge.

Anatomy of the 12" Indoor Flush Mount Dome

The DomeVIEW HD Indoor Pendant Mount Dome Enclosure will come partially assembled*.



Unpacking:

Unpack and identify the following parts for 998-9000-200
DomeVIEW HD - 12" Indoor Flush Mount Dome Enclosure Package includes:

- One (1) Dome Enclosure Assembly with the following parts:
 - One (1) Metal Back Can
 - One (1) Universal Camera Platform
 - One(1) 3/4" Clamp Down (Romex) Conduit Connector
 - One (1) Safety Hanger Bracket (fits on conduit connector)
 - Three (3) 2.5" Long 10-32 Threaded F to F .5" Hex Stand-offs (supports the camera platform)
 - Three (3) 10-32 x .5" Pan Head Screws (attach the camera platform to the 2.5" stand-offs)
 - Six (6) #10 Flat Washers(spacers to keep Stand-offs plumb)
- Three (3) .75" Long 10-32 Threaded M to F .5" Hex Stand-off Extensions - **Use with HD-20 Camera Only**
- Two 1/4"-20 x 5/8" Screws (attach HD-18 and HD-19 camera to platform)
- Two 1/4"-20 x 3/8" Screws (attach HD-20 camera to platform) - do not use 5/8" Screws on HD-20
- 12" Clear Dome with Three (3) Stainless Steel Screws Attached
- One (1) Spin-formed White Trim Ring
- Two (2) Two white screws for Trim Ring
- One (1) One-Piece Heavy Duty Tile Support Brace
- Four (4) 10-32 x 1" Pan Head Screws attach Metal Back Can to Tile Support Brace

Other things that are needed for system completion:

- One (1) Vaddio HD-20, HD-19 or HD-18 PTZ Camera Package

Note: Not all Accessories apply to the Flush Mount Dome Enclosure. The accessories marked with a red asterisk * are compatible with the Indoor Flush Mount Dome.

Conveniently Located Accessory Section:

998-9000-210: 12" (304.5mm) Clear Dome Accessory*

- Includes Clear Dome with Stainless Steel Screws



998-9000-220: 12" (304.5mm) Smoke Tinted Dome Accessory*

- Includes Smoke Tinted Dome with Stainless Steel Screws



998-9300-000: Wall Mount Kit for Pendant Mount Domes

- Heavy duty aluminum cast construction
- 1.5" NPT threads easily onto domes



998-9300-001: Wall Mount with Pole Mount Kit for Pendant Domes

- Heavy duty aluminum cast construction
- 1.5" NPT threads easily onto domes
- Accommodates 3" (7.62cm) to 10" (25.4cm) poles



998-9300-002: Structure Mounting Box Kit for Pendant Domes

- Mounting box with heavy duty 1.5" NPT thread adapter
- Requires 1.5" NPT pipe (not supplied)





Before Starting the Installation:

The 12" Flush Mount Dome Enclosure for the HD-20, HD-19 or HD-18 PTZ camera is an integrated enclosure designed for installation in a suspended ceiling tile. It has a broadened metal flange on the metal back can to allow mounting into gypsum board or hardwood ceilings as well.



- Before starting the installation of the enclosure and camera, check above the ceiling where the camera is to be installed to verify the area is clear of obstructions and confirm that there is adequate room for the camera enclosure.
- Vaddio HD-20, HD-19 and HD-18 PTZ cameras use Cat-5e cable for video power and control. When terminating the Cat-5e cabling, make sure that each cable is **marked** for purpose "Power, Video or Control" and is tested for proper termination of all ends with a continuity tester. Please do not use the "pass -thru" type RJ-45 connectors.
- All above-ceiling work must conform to local building codes and should be performed by qualified personnel. There is a clamp down 3/4" conduit connector on the back of the metal back can that can be switched out to an EMT type connector to seal the box for areas that have building codes that require conduit for all cabling. The conduit connector attaches a Safety Hanger Bracket for securing the dome to the structure of the building.
- The supplied one-piece tile support brace has six (6) points that can be tied to the structure for additional support and to meet seismic stabilization requirements.
- The metal back can and tile support brace allows for some flexibility and positioning freedom when used with 2'x2' and 2'x4' ceiling tiles. The camera does not have to be mounted in the center of the tile and can be moved along the length of the tile.
- Before cutting the hole in the ceiling tile, remove the ceiling tile from the grid and place it on a suitable and safe work surface. Always measure twice, and then check your work, then cut the tile.

STEP-BY-STEP Installation Instructions:

Step 1:

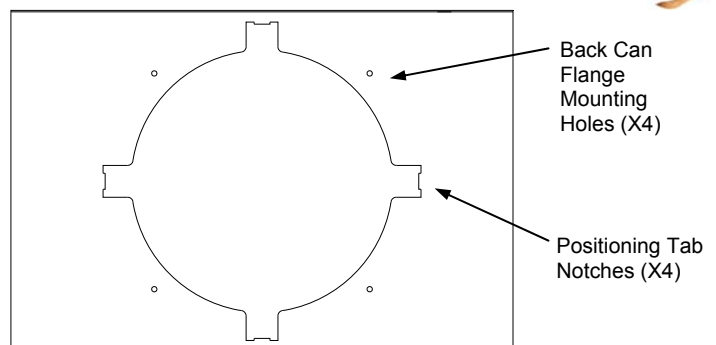
For the most obvious reasons, a ladder is required to install the Indoor Flush Mount Enclosure and Vaddio PTZ camera into an acoustic tile ceiling. Safety comes first, so please use safe tools ladders and installation practices.



Choose the tile that the enclosure and camera are to be installed. Make sure that it is not too close to a wall or ceiling lighting fixture that will serve to interfere with proper operation of the camera lens or iris. Mark the optimum location on the tile.

Step 2:

Remove the ceiling tile from the grid. Place the tile on a safe work surface away from finished furniture. Use the supplied Tile Support Brace as a template. Push the positioning tabs into the tile and trace out the opening for the Metal Back Can and be sure to notch out the four (4) areas with the positioning tabs. Poke holes through the tile for the four (4) attachment screws for the back can flange. Measure twice, cut once. Carefully cut this hole in the ceiling tile, scoring the front of the tile first with a sharp utility knife. Dull tools are never a good idea...generally.



Step 3:

After carefully cutting the tile, replace the tile in the grid. From one tile over, put the one-piece tile brace in place on the cut tile and line up the positioning tabs. Tie the tile support brace up to the structure now (or wait until later). Use the hanger holes along either side of the tile support brace. The assembly with camera will be close to 13 lbs (28.6kg) and it is important to support that weight with the building structure rather than just the ceiling grid.

Step 4:

It is easiest to mount camera in the enclosure on the ground. Loosen the two (2) 10-32 x .375" screws on the Universal Platform that are key-holed and fully remove one (1) 10-32 x .375" screw from the camera platform. Slide the two loosened screws through the keyholes and remove the platform.

When running the Cat-5e cable to the position of the Flush Mount Dome, leave an adequate length service loop that can be drawn back through the opening in the tile and tile brace and still allow connection of the camera on the ground or a table underneath the dome's location. Pre-wire the marked and tested Cat-5e cables according to the manual that was included with the camera package purchased.

Step 5:

Using the provided ¼"-20 x 5/8 screws, attach the HD-18 or HD-19 camera to the camera platform.

NOTE: If using the HD-20 camera, take the three (3) .75" long 10-32 threaded M to F .5" Hex stand-off extensions and attach them to the Three (3) 2.5" long 10-32 threaded F to F .5" Hex stand-offs in the bottom of the can. Tighten the hex stand-offs firmly with a socket or nut driver. Attach the HD-20 camera with the provided ¼"-20 x 3/8" screws to the Universal Camera Platform. The HD-20 is about ¾" shorter than the HD-18 and HD-19 and needs this small boost.

Step 6

Set the camera dip and rotary switches (functions and video resolutions prior to installing it in the dome). Re-install the Universal Mounting Platform inside the dome with the camera attached. Slip the keyholes over the screws in the stand-offs and tighten down all three platform screws. Connect the Cat-5e cables according to the manual that was included with the camera package purchased, making sure the cables are tucked up behind the mounting plate to avoid interference with the PTZ camera movement.

Step 7:

Once the camera is installed in the Metal Back Can, pull the service loop cable slack back through tile and Tile Support Brace and tie it off in a professional manner above the ceiling (if building codes allow)

Step 8:

While pulling the service loop through the tile, push the Metal Back Can with the camera installed (do not touch the camera's head) through the opening in the ceiling. Spin the Metal Back Can so the camera faces the general direction intended. The pan range is $\pm 170^\circ$, allowing for flexible camera positioning and presets. With the 10-32 x 1" pan head screws, attach the flange of the Metal Back Can to the Tile Support Brace and firmly tighten down so the flange pulls the tile to the Tile Support Brace effectively making a flange/tile/brace sandwich. Do not tighten too hard since these are metal parts and can be bent if over tightened.

Step 9:

Attach the 12" polycarbonate dome to the enclosure with the three (3) attached stainless steel screws.

Step 10:

Attach the White Trim Ring with the white screws until the trim ring rides snugly on the tile. Do not over tighten.

Step 11:

Connect the other side of the Cat-5e cables (Power, Video and Control) to the Quick-Connect as described in the manual included with the camera package purchased.



NOTE: Check all the marked Cat-5e cables for continuity and purpose in advance of the final connection. Plugging the Cat-5e cables into the wrong RJ-45 jack may cause damage to the camera system and void the warranty.



Warranty Information:

(See Vaddio Warranty, Service and Return Policies posted on vaddio.com for complete details):

Hardware* Warranty: One year limited warranty on all parts. Vaddio warrants this product against defects in materials and workmanship for a period of one year from the day of purchase from Vaddio. If Vaddio receives notice of such defects during the warranty period, they will, at their option, repair or replace products that prove to be defective. Please see Vaddio's Service Terms and Conditions at vaddio.com for specific details and policies.

Exclusions: The above warranty shall not apply to defects resulting from: improper or inadequate maintenance by the customer, customer applied software or interfacing, unauthorized modifications or misuse, operation outside the normal environmental specifications for the product, use of the incorrect power supply, improper extension of the power supply cable or improper site operation and maintenance.

Vaddio Customer Service: Vaddio will test, repair, or replace the product or products without charge if the unit is under warranty and is found to be defective. If the product is out of warranty, Vaddio will test then repair the product or products. The cost of parts and labor charge will be estimated by a technician and confirmed by the customer prior to repair. All components must be returned for testing as a complete unit. Vaddio will not accept responsibility for shipment after it has left the premises.

Vaddio Technical Support: Vaddio technicians will determine and discuss with the customer the criteria for repair costs and/or replacement. Vaddio Technical Support can be contacted through one of the following resources: e-mail support at support@vaddio.com or online at www.vaddio.com.

Return Material Authorization (RMA) Number : Before returning a product for repair or replacement, request an RMA from Vaddio's technical support. Provide a technician with a return phone number, e-mail address, shipping address, and product serial numbers and describe the reason for repairs or returns as well as the date of purchase and proof of purchase. Include your assigned RMA number in all correspondence with Vaddio. Write your assigned RMA number on the outside of the box when returning the product. All products returned for credit are subject to a restocking charge without exception.

Voided Warranty: The warranty does not apply if the original serial number has been removed or if the product has been disassembled or damaged through misuse, accident, modifications, or unauthorized repair. Cutting the power supply cable on the secondary side (low voltage side) to extend the power to the device (camera or controller) voids the warranty for that device.

Shipping and Handling: Vaddio will not pay for inbound shipping transportation or insurance charges or accept any responsibility for laws and ordinances from inbound transit. Vaddio will pay for outbound shipping, transportation, and insurance charges for all items under warranty but will not assume responsibility for loss and/or damage by the outbound freight carrier.

• If the return shipment appears damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.

Products Not Under Warranty: Payment arrangements are required before outbound shipment for all out of warranty products.

*Vaddio manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry standard practices.

Other General Information:

Care and Cleaning

- Do not spill liquids in the product
- Keep this device away from food and liquid
- For smears or smudges on the product, wipe with a clean, soft cloth
- Do not use any abrasive chemicals.

Operating and Storage Conditions:

Do not store or operate the device under the following conditions:

- Temperatures above 40°C (104°F) or temperatures below 0°C (32°F)
- High humidity, condensing or wet environments
- In inclement weather
- In swimming pools or waterfalls
- Dry environments with an excess of static discharge
- In outer space
- Under severe vibration

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Fax: (732)-222-7088 | E-mail: sales@touchboards.com

vaddio

9433 Science Center Drive, Minneapolis, MN 55428
Toll Free: 800-572-2011 • Phone: 763-971-4400 • FAX: 763-971-4464
www.vaddio.com