VADDIO™ DOMEVIEW™ HD

LIGHT-DUTY WEATHER-RESISTANT PENDANT MOUNT DOME WITH HEATER BLOWER FOR VADDIO HD-SERIES AND ROBOSHOT PTZ CAMERAS

Part Number: 998-9200-200 (North America)
998-9200-201 (International)

Overview:
The Vaddio 12" DomeVIEW HD Series Dome Enclosures for HD-Series (ClearVIEW™ and PowerVIEW™) and RoboSHOT 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 Weather-Resistant Outdoor Pendant Dome Enclosure.

The DomeVIEW HD Light-Duty Weather-Resistant Outdoor Pendant Dome is designed for use under a building overhang, canopy or any other building structure and out of the direct elements. Each enclosure includes a 12" optical-grade polycarbonate dome smoke tinted dome metal back can, UV protected grey plastic shroud, heater/blower system and mounting hardware.

The pendant mount is a 1.5" NPT pipe adapter attached to the top of the dome and is anchored through the plastic shroud, metal back can and gasket for a strong and weather-tight top seal.

Accessories include a Wall Mount Kit, a Wall Mount with Pole Mount Kit (for poles 3"/76.2mm to 10"/254mm) and a Structure Mounting Box Kit which uses a 1.5" NPT thread adapter.

Weather Resistant 12" Outdoor Pendant Mount Dome (with Smoke Tint Optical-Grade Dome (shown with 1.5" NPT Pipe and HD-18 Camera - Camera Not Included)

The DomeVIEW HD Series Domes are an excellent way to securely mount Vaddio 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 outdoors protected from the direct elements, 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.**
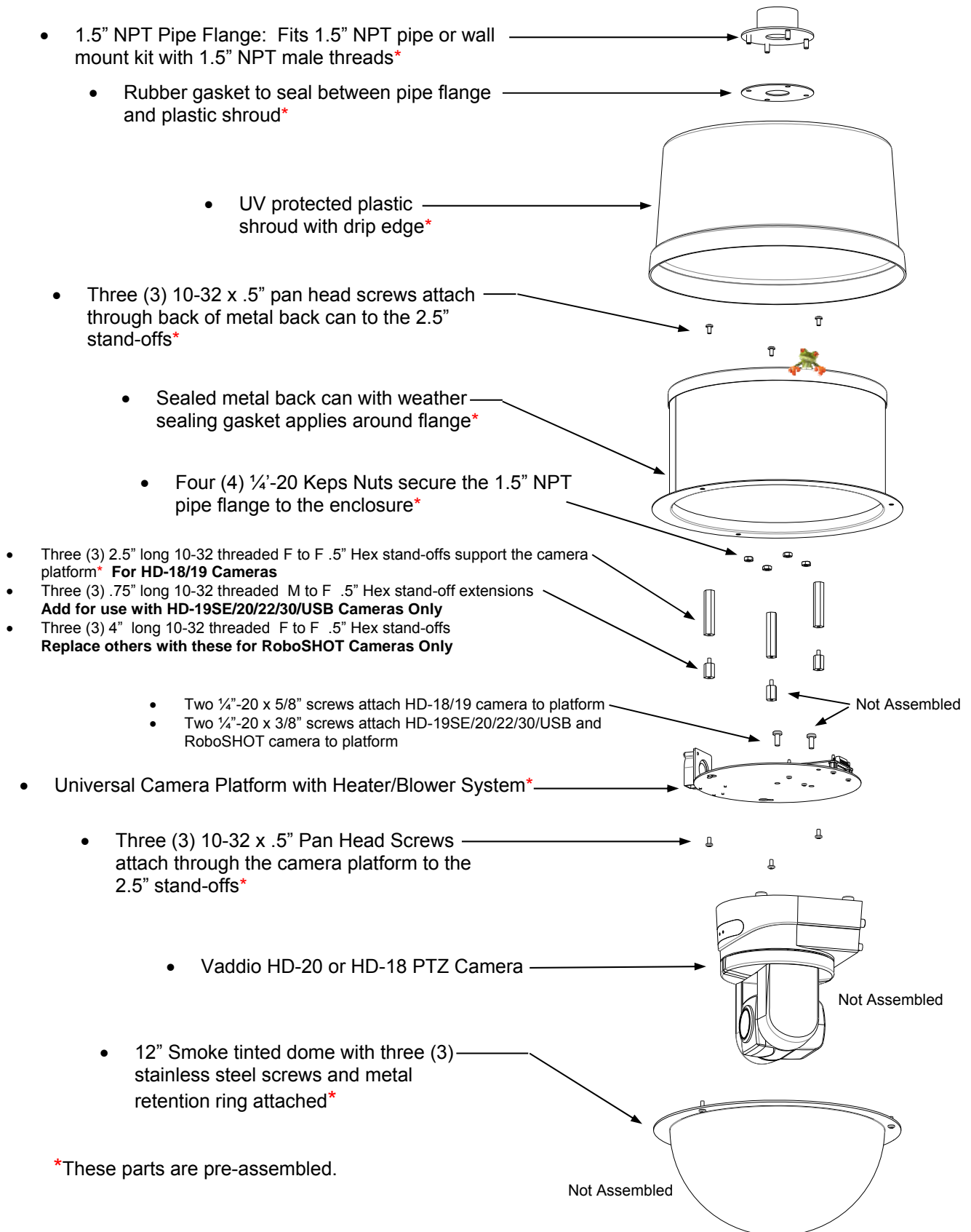
> **Please do not use "pass-thru" type RJ-45 connectors. These pass-thru type connectors do not work well for professional installations and can be the cause of intermittent connections which can result in the RS-232 control line failing and locking up, and/or compromising the HSDS™ signals. For best 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 Weather-Resistant 12" Pendant Mount Dome
The enclosure will come partially assembled.

- 1.5" NPT Pipe Flange: Fits 1.5" NPT pipe or wall mount kit with 1.5" NPT male threads*

  - Rubber gasket to seal between pipe flange and plastic shroud*

    - UV protected plastic shroud with drip edge*

- Three (3) 10-32 x .5" pan head screws attach through back of metal back can to the 2.5" stand-offs*

  - Sealed metal back can with weather sealing gasket applies around flange*

    - Four (4) ¼'-20 Keps Nuts secure the 1.5" NPT pipe flange to the enclosure*

- Three (3) 2.5" long 10-32 threaded F to F .5" Hex stand-offs support the camera platform* **For HD-18/19 Cameras**
- Three (3) .75" long 10-32 threaded M to F .5" Hex stand-off extensions **Add for use with HD-19SE/20/22/30/USB Cameras Only**
- Three (3) 4" long 10-32 threaded F to F .5" Hex stand-offs **Replace others with these for RoboSHOT Cameras Only**

    - Two ¼"-20 x 5/8" screws attach HD-18/19 camera to platform
    - Two ¼"-20 x 3/8" screws attach HD-19SE/20/22/30/USB and RoboSHOT camera to platform

Not Assembled

- Universal Camera Platform with Heater/Blower System*

  - Three (3) 10-32 x .5" Pan Head Screws attach through the camera platform to the 2.5" stand-offs*

    - Vaddio HD-20 or HD-18 PTZ Camera

Not Assembled

  - 12" Smoke tinted dome with three (3) stainless steel screws and metal retention ring attached*

*These parts are pre-assembled.

Not Assembled

Unpacking:
Unpack and identify the following parts for 999-9200-200 or 998-9200-201:
DomeVIEW HD Weather-Resistant 12" Outdoor Pendant Mount Dome Enclosure Package includes:
- One (1) Dome Enclosure Assembly with the following parts:
  - One (1) 1.5" NPT Pipe Flange
  - One (1) Rubber Gasket (to seal between pipe flange and plastic shroud)
  - One(1) UV Protected Plastic Enclosure Shroud
  - Three (3) 10-32 x .5" Pan Head Screws (attach through metal back can to the 2.5" stand-offs)
  - One(1) Sealed Metal Back Can (with weather gasket applied around flange)
  - Four (4) ¼'-20 Keps Nuts (secures the 1.5" NPT pipe flange to the enclosure)
  - Three (3) 2.5" Long 10-32 Threaded F to F .5" Hex Stand-offs (supports the camera platform)
  - Three (3) 4.0" Long 10-32 Threaded F to F .5" Hex Stand-offs (supports the camera platform)
  - One (1) Camera Platform with Heater/Blower System
  - Three (3) 10-32 x .5" Pan Head Screws (attach the camera platform to the 2.5" stand-offs)
- Three (3) .75" Long 10-32 Threaded M to F .5" Hex Stand-off Extensions – (Use with HD-20 Camera Only)
- Two ¼"-20 x 5/8" Screws (attach HD-18 camera to platform)
- Two ¼"-20 x .3/8" Screws (attach HD-20 camera to platform) – do not use 5/8" Screws on HD-20/22/30
- 12" Smoke Tinted Dome with Metal Retention Ring and Three (3) Stainless Steel Screws Attached
- 24 VDC, 2.0A Power Supply with 2-Pin Screw Terminal Adapter Attached and Power Cord

The 998-9200-201 includes a Euro and UK Power Cord. Camera is not included.

Other things that are needed for system completion:
- One (1) Vaddio Camera Package
- 18AWG, 2-Conductor Cable (for power supply extension to Heater Blower - up to 100' /30.48m)
- Waterproof Silicone Caulk Sealer (for outdoor use) to seal the 1.5" NPT pipe flange threads at the top of the dome enclosure.
- 1.5" NPT Wall Mount/Pipe Mount/Structure Mount or 1.5" NPT Pipe (see Accessories - sold separately)

Note: The 12" Clear Dome can be purchased as an accessory for use indoors/outdoors.

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)

Pre-Installation:

- Before starting the installation of the DomeVIEW HD Weather-Resistant Outdoor Pendant Mount Dome, please read this manual. There are several things to consider before mounting a dome camera enclosure.

- When locating the dome, consider camera and subject matter viewing angles, lighting conditions, possible line of site obstructions and check for construction challenges where the camera is to be mounted. Pick a mounting location to optimize the performance of the camera. Avoid locating lighting elements or direct sunlight.

- **NOTE:** This Weather-Resistant Outdoor Pendant Dome must be protected from the elements and installed under a building overhang, canopy or any other building structure and out of the direct elements and direct sunlight.

- Vaddio HD and RoboSHOT Series PTZ cameras use Cat-5e cable for video, power and control. When terminating the Cat-5e cabling, please make sure that each cable is marked and tested for proper termination of all ends with a continuity tester. Please do not use the "pass -thru" type RJ-45 connectors.

- All work must conform to local building codes and should be performed by qualified personnel. For the most obvious reasons, a ladder is probably required to install the DomeVIEW HD Enclosure. Safety comes first, so please use safe tools, ladders and installation practices.

- Always measure twice, and check your work, then cut once.

STEP-BY-STEP Installation Instructions:

Step 1:
It is easiest to mount the dome on the 1.5" NPT pipe mount or wall mount and then install the contents of the dome to avoid cabling problems as the dome is spun onto the pipe mount. Generously apply pipe thread sealer (right) and install the dome on 1.5" NPT pipe by rotating counter-clock wise until threads are fully engaged. ***See Step 8 now if positioning is critical.***

Note: The camera and contents can also be installed on the ground, but extra care must be taken with the cables when the dome is spun onto the 1.5" NPT pipe threads - Installer's preference.
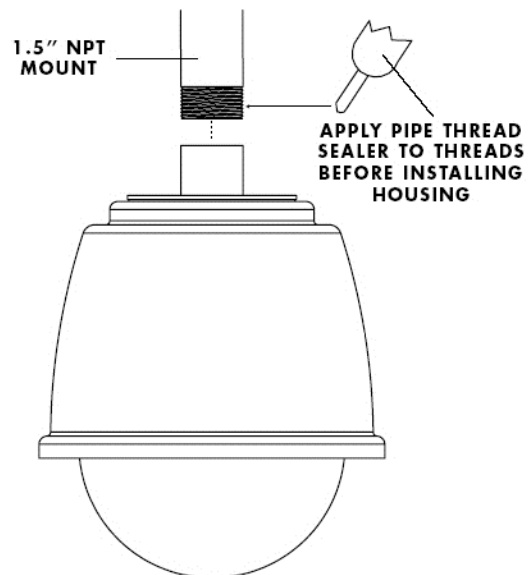
Step 2:
Loosen the two (2) 10-32 x .375" screws on the platform that are key-holed and fully remove one (1) 10-32 x .375" screw from the camera platform. Slide the two loosened screws through the keyholes and remove the Universal Camera Platform with the heater/blower attached to the underside of the platform. The heater/blower circuitry will be accessible on the back of this mounting plate.

Step 3:
The heater/blower circuit card receives power from the included 24 VDC power supply. This power supply powers the fan and heater strip only. The power supply is connected to the +24VDC and GND terminals on the circuit board to power both the heater and the fan. Pull the 18AWG 2-conductor cable (not supplied) through the 1.5" NPT Pipe and connect the dome as shown on the next page

Step 4:
Pull the camera's Cat-5e cabling through the 1.5" NPT pipe at this time.
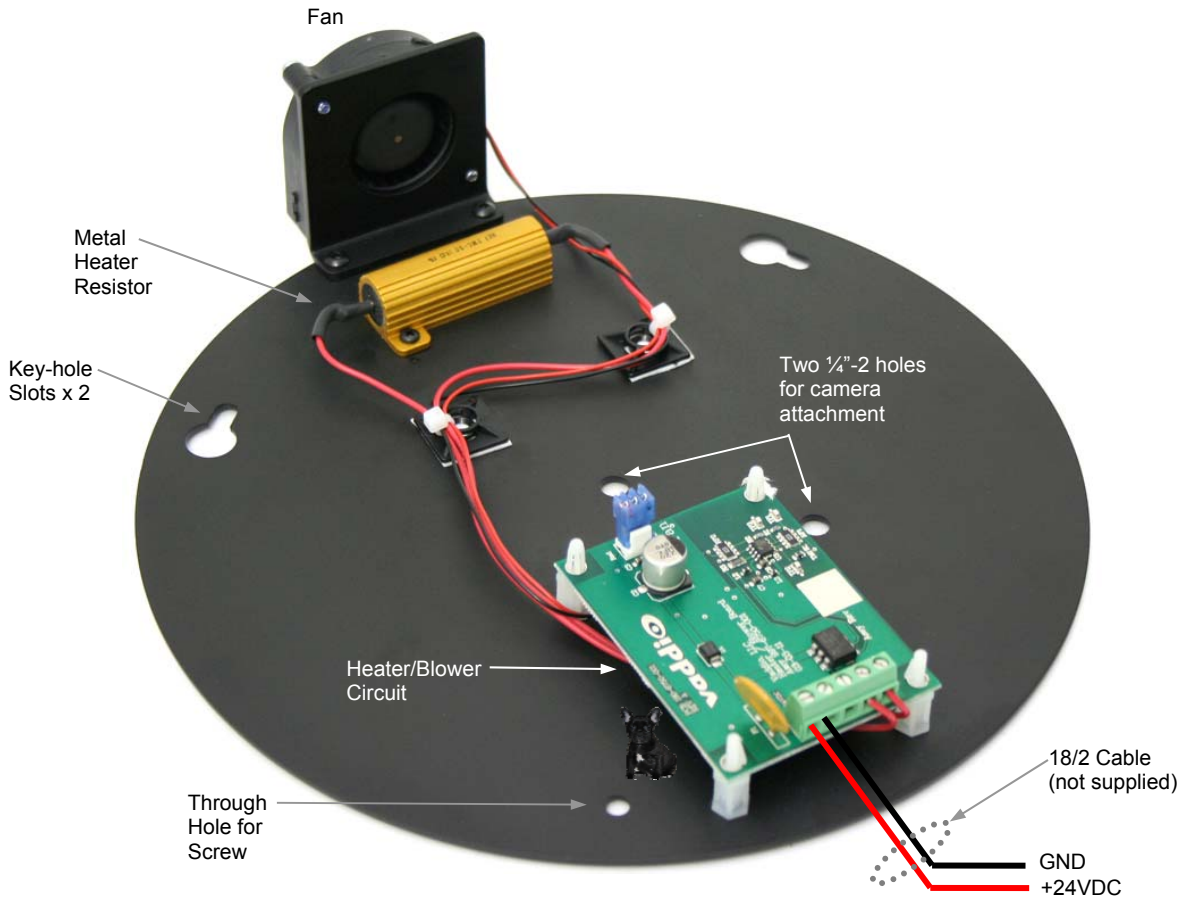
Camera Platform and Heater/Blower Components:
When powered up, the fan will run continuously. The heater resistor will turn on at 45° F (7.22222 ºC) to keep the contents warm. Operating range with the heater blower is -10°F to 115°F (-23.3ºC to 46.1ºC).

Step 5:
Connect the 18/2 cable to the green Phoenix type connector as shown (circuit board is marked +24VDC and GND).

Fan

Metal Heater Resistor

Key-hole Slots x 2

Two ¼"-2 holes for camera attachment

Heater/Blower Circuit

Through Hole for Screw

18/2 Cable (not supplied)

GND
+24VDC

Step 6:
Take the provided ¼"-20 x 5/8 Screws and attach the HD-18/19 camera to the camera platform.

NOTE #1: If using the **HD-19SE/20/22/30/USB** camera, take the thee (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 dome's tub. 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 Camera Platform.

NOTE #2: If using the **RoboSHOT** Series cameras, remove the installed Three (3) 2.5" long 10-32 threaded stand-offs from the dome's tub, and replace with Three (3) 4.0" long stand-offs. This will compensate for the height difference of the RoboSHOT's spatially efficient design. Attach the camera with the provided ¼"-20 x **3/8"** screws to the Camera Platform.

Step 7:
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 and away from the heating resistor and fan.

Step 8:
Once the camera is installed in the dome, pull the cable slack back through the pendant extension pipe or curved wall mount. The pan range is ±170°, allowing for flexible camera positioning and presets.

IMPORTANT NOTE: If positioning is critical, purchase a 1.5" NPT jamb nut (not provided) and thread it on to the wall or pipe mount before connecting the camera and mounting the dome. Once the dome is mounted, the camera cabled and a generous amount of pipe sealer applied to the threads, loosen the dome on the 1.5" NPT pipe mount (no more than 1/4 turn) and position the dome for preferred viewing angle of the camera. Apply another generous bead of sealer around the top of the dome's 1.5" NPT" pipe adapter and pipe threads. Thread down the jamb nut and firmly tighten it against the dome's pipe flange adapter and apply another generous bead of sealer around the top of the jamb nut to seal out moisture.

Step 9:
Attach the 12" dome to the enclosure with the three (3) attached stainless steel screws and tighten down to compress the weather sealing gasket and create a water-resistant seal.

Step 10:
Connect the camera at the head end according to the camera system manual.

Step 11:
Connect the 18/2 cable (not supplied) to the 24 VDC, 2.0A power supply using the attached 2-pin screw terminal adapter and plug the power cable into a power outlet. The fan will start to run. Use 16/2 cable if the distance is critical.

DANGER **NOTE: Check all Cat-5e cables for continuity 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's Warranty 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 Warranty and 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

131 Cheshire Lane, Suite 500, Minnetonka, MN 55305
Toll Free: 800-572-2011 ▪ Phone: 763-971-4400 ▪ FAX: 763-971-4464
www.vaddio.com