

NM-VIDEYE

Security Video Camera

Indoor Low Profile Eyeball



Color

**Day/Night
Color**

This general purpose security camera mounts in a round 2.7 inch diameter hole and is viewed with a security monitor. To view the camera on a single standard television, use the TV's composite RCA Video Input jack.

Product Includes:

1. Camera Assembly (Camera Eyeball, Interior Base, Exterior Ring, Mounting Ring, Video Connector; Power Connector).
2. 12V DC 300mA Power Transformer, Center Conductor Positive.
3. Mounting hardware (Mounting Screws, Grounding Strap and Grounding Screw).

Camera Assembly

Available in choice of colors:

Color camera	Day/Night Color	Housing
NM-VIDEYE-CW	NM-VIDEYE-DW	White
NM-VIDEYE-CN	NM-VIDEYE-DN	Nickel

Mounting Ring

Not Shown - Secures internal base to mounting surface.

Interior Base

Installs in round 2.7" dia. x 2.5" deep hole.



Camera Eyeball
Adjust for desired field of view

Camera Lens
Comes prefocused from factory but can be adjusted by rotating in either direction.

Exterior Ring
Covers mounting ring and secures camera eyeball position.

Video Connector
Female BNC connector.

Power Connector
12V DC 300mA, center positive.

FEATURES

- Excellent image quality
- Tough billet aluminum housing
- Internally routed cables
- Mounts directly to walls and ceilings
- Works in low light conditions
- Adjustable camera angles
- Tamper resistant wiring
- Includes power supply
- One year limited warranty

SPECIFICATIONS

	Color	Day/Night Color
Camera Lens:	3.7mm	3.6mm
Image Sensor:	1/4" CCD	1/3" CCD
Resolution:	470 lines	540 lines
Field of View:	54° Horizontal	72° Horizontal
Min Illumination:	0.5 Lux	0.1 Lux
Infrared Sensitivity:	No	Yes
Output Connector:	Female BNC, 75 Ohm	
Power Requirement:	12V DC, 300mA	
Power Connector:	5.5mm OD, 2.1mm ID, center positive	
Assembly Size:	4.6" dia. x 3" long	
Exterior Size:	4.6" dia. x 1.5" high	
Hole Size:	2.65" dia. x 2.5" deep	
Mounting Holes:	3.5" centers	
Weight:	1 lb.	

(subject to change without notice)

NM-VIDEYE

DO NOT CUT OR SPLICE THE CAMERA'S CABLES. MODIFYING THE UNIT IN ANY WAY WILL VOID THE WARRANTY.

Installation Procedures:

1. Ensure that the camera is grounded with the ground strap as shown in the FCC Information.
2. Connect a grounded video cable from the viewing device (monitor, Quad, DVR, modulator, etc.) to the camera's Video Connector. Adapters, such as BNC to F or RCA, may be used as necessary.
3. Connect the 12V DC 300mA Power Transformer from an AC outlet to the camera's Power Input Connector.
4. Insert the Interior Base through the 2.65" hole of the mounting surface and fasten with the Mounting Ring. Adjust the Camera Eyeball for proper viewing and tighten the Exterior Ring.



Figure 1 - Connecting the camera to a security monitor or standard television. Use the TV's composite RCA Video In jack and view through its video or line input. The picture will not be available on a channel.

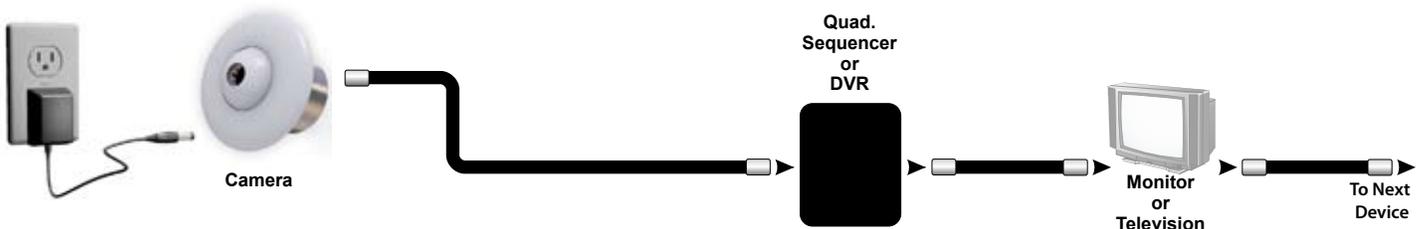


Figure 2 - Connecting the camera to multiple pieces of video equipment. Every piece except the last must have a loopback or video output jack.

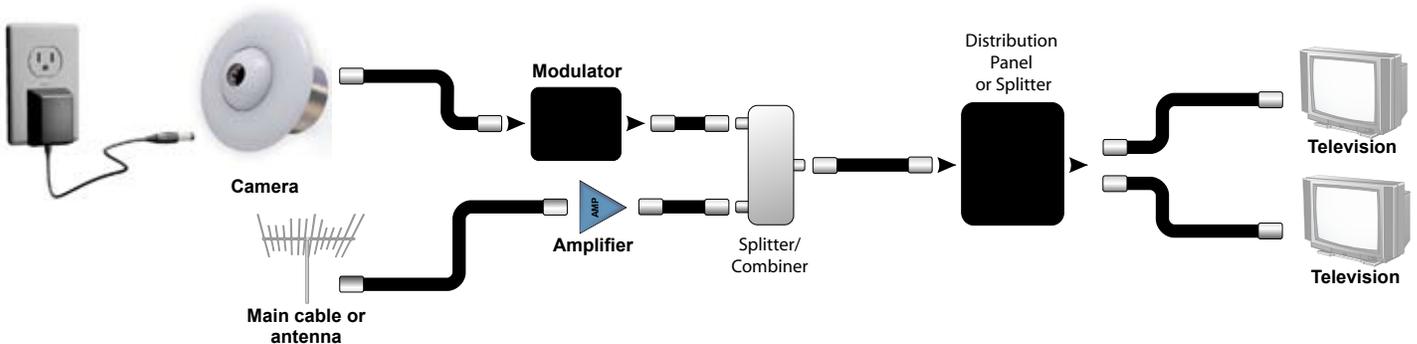


Figure 3 - Connecting the camera to a modulator for whole house distribution and standard television viewing on the modulated channel. The modulator can also be the last piece of equipment in Figure 2.

NM-VIDEYE



Security Video Camera

Indoor/Outdoor Weather Resistant



FCC Information (U.S.A.):

Important: This product, when installed as specified below, meets FCC requirements. Modifications not expressly approved by NetMedia may void your authority, granted by the FCC, to use the product. Failure to follow all installation instructions could void your FCC authorization to use the product in the USA.

Security Cameras:

FCC compliance requires fastening the included grounding strap and ring from the camera's BNC connector to the camera's base as shown in Figure 4. The connecting cable's shielding must be grounded. If the cable is not grounded, the camera base must be mounted in a grounded metal electrical junction box.

Compliance Information Statement (Declaration of Conformity Procedure)

We,
NetMedia, Inc.
10940 N. Stallard Pl.
Tucson, AZ 85737
(520-544-4567)
declare under our sole responsibility that the following products,

Type of Equipment: Security Camera

Model: NM-VIDEYE-CW Model: NM-VIDEYE-DW
Model: NM-VIDEYE-CN Model: NM-VIDEYE-DN

to which this declaration relates are in conformity with the Title 47 of the US Code of Federal Regulations, Part 15 covering Class B digital devices.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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 or television communications. However, there is no guarantee that the 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 to a different outlet on a circuit other than the one the receiver is connected to.
- * Consult the dealer or an experienced radio/TV technician for help.

One Year Limited Warranty

NetMedia, Inc. warrants this product to be free from defects in materials and workmanship under normal use and service for One Year from the date of purchase or NetMedia will repair or, at its option, replace the defective product. Please keep your purchase receipt. In the unlikely event that you need warranty service, call NetMedia at 1-520-544-4567 for a Return Material Authorization (RMA) number. Then, return the product, with the RMA number clearly marked on the package, by a traceable method with freight pre-paid and accompanied by a copy of the purchase receipt to:

Attn: Customer Service, NetMedia, Inc. 10940 N. Stallard Place, Tucson, AZ 85737-9527

No expressed or implied warranty is made for any defects in this product which result from accident, abuse, failure to operate the product in accordance with relevant instructions, neglect, immersion in or exposure to chemicals or liquid, extreme climate, excessive wear and tear and defect resulting from other extraneous causes such as unauthorized disassembly, repair and/or modification. Any implied warranty arising from the sale of this product, including implied warranties of merchantability and fitness for a particular purpose, are limited to the warranty stated above. NetMedia shall not be responsible for any loss, damages or expenses, whether direct, consequential or incidental that arise from the use or inability to use this product. Some states do not allow limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.



Figure 4 - Grounding the camera through the base with a grounded coax (base may vary according to model).

Frequently Asked Questions

Q- Why do the light areas of the picture look washed out?

A- The camera's automatic iris must decide how much to open for shadow areas or close for light areas. When a picture has both light and shadow, the camera adjusts the iris based on the percentage of each area in the image. If it decides to open more for the shadow portions then the light areas will be overexposed. In addition, cameras that are designed for low light or infrared sensitivity typically favor the shadow areas and look more washed out under bright conditions. Try adjusting the image field so that more light areas are visible and see if the iris closes to improve the picture. It is normal though, that as the lighting conditions change throughout the day, so will the camera iris and the picture's dark or light areas.

Q- Why are the shadow areas too dark to see much detail?

A- This is like the washed out question above except opposite. In this case, the camera's automatic iris is opening more for the light areas at the expense of the shadow areas. Try adjusting the image field so that more shadow areas are visible and see if the iris opens to improve the picture. Keep in mind though, that the camera still does need some kind of light in order to see. If necessary, add some lighting to the dark area to improve visibility.

Q- How can I see the camera on my TV without using an expensive security monitor?

A- The composite video signal from the camera can be plugged directly into one television's RCA Video Input jack and viewed when that TV is switched to the proper input. Another option is to feed the camera signal into a modulator. A modulator, such as NetMedia's MM70, changes the video to a UHF or Cable channel and allows the signal to be distributed to all your TV's along with the existing antenna/cable/satellite service.

Q- How can I increase the length of the power cord?

A- The camera has a minimum power requirement of 12V DC 150mA (it ships with a 12V DC 300mA transformer). You may use another power supply and cable but the connector needs to be just like the power jack of the included transformer, 5.5mm outer dia., 2.1mm inner dia., center positive. **Do not cut the cables coming out of the camera or you will void the warranty. Do not reverse the polarity on the power jack or you will damage the camera and void the warranty.** The power supply, along with the cable type and length, will affect the voltage that is available to the camera. There must be at least 12V DC under load at the camera in order for it to function properly.

Q- How can I use this camera if there is only one coax running to its location?

A- This camera was designed for use with separate power and video cables. NetMedia does however, offer One Wire Video™ solutions for various installation applications. In this case, you could use the Power Over Coax (NM-POCSET) modules to supply power through the video coax to this camera. NetMedia's CAModulator products are cameras with modulators already built into them. They also require only one coax for both power and video. Modulated video requires a tuner for viewing so monitors, quad displays, and DVR's cannot directly accept that type of signal.

Q- What do the switches inside the "D" Day/Night camera adjust?

A- The Day/Night camera comes with a switch connected inside to adjust some of its performance characteristics. The switch functions are listed below (Figure 5). The default settings (All OFF) are usually best but adjusting these may be helpful under certain conditions. The AGC switch will force the camera to remain in color mode instead of changing into black and white mode when the light level drops below its normal crossover threshold.



Switch 1: BLC - Back Light Control
Switch 2: AES - Auto Iris
Switch 3: AGC - Auto Gain Control
Switch 4: Unused
Default: All OFF (Away from numbers)

Figure 5 - Day/Night camera switch functions. AGC ON will prevent the camera from switching into BW mode. Default: All OFF.