NM-VIDLAMP

Security Video Camera
Indoor/Outdoor Weather Resistant

Color	Day/Night Color

The NetMedia VIDLAMP security cameras mount to a typical round 4 inch junction box and are viewed with a security monitor. Other junction boxes from your local hardware store may also be used after replacing the round base with another that has a 1/2 inch diameter hole for the elbow bracket. To view the cameras on a single standard television, use the TV's composite RCA Video Input jack.

Product Includes:
1. Camera Assembly (Camera, Housing, Housing Cap, Elbow Bracket, Locking Ring, Base, Gasket, Video Connector; Power Connector).
2. 12V DC 300mA Power Transformer (Center Conductor Positive).
3. Mounting hardware (Mounting Screws, Grounding Strap, Screw and Compression Ring).

Housing
Available in Ivory only:

Model	Camera Type
NM-VIDLAMP-CI	Color
NM-VIDLAMP-DI	Day/Night Color

Elbow Bracket
Adjusts camera angle at base, screw, and housing. Installs in 1/2" junction box covers.

Locking Ring
Secures elbow bracket to base at desired position.

Video Connector
Female BNC connector.

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

Camera Bracket
Slot indicates image bottom; rotate to adjust camera.

Housing Cap
Remove to rotate camera bracket or to adjust focus.

Base, Gasket & Screws
Mount to round 4" junction box.

Power Connector
12V DC 300mA, center positive.

FEATURES

- Excellent image quality
- Tough aluminum housing
- Weather resistant enclosure
- Internally routed cables
- Mounts to standard electrical fixtures
- 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 F1.2	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	
Housing Size:	3.13" dia., 4" long	
Base Size:	4.5" dia., 0.75" high, 0.5" hole	
Mounting Holes:	3.5" centers	
Weight:	1 lb.	

(subject to change without notice)

MAN-VIDLAMP   REV1003A

NM-VIDLAMP

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 where appropriate.
3. Connect the 12V DC 300mA Power Transformer from an AC outlet to the camera's Power Input Connector.
4. Mount the base to the junction box (not included) and adjust the camera assembly for proper viewing. When satisfied, secure all adjustment points.

Camera · **Video Cable** · **Monitor or Television**

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.
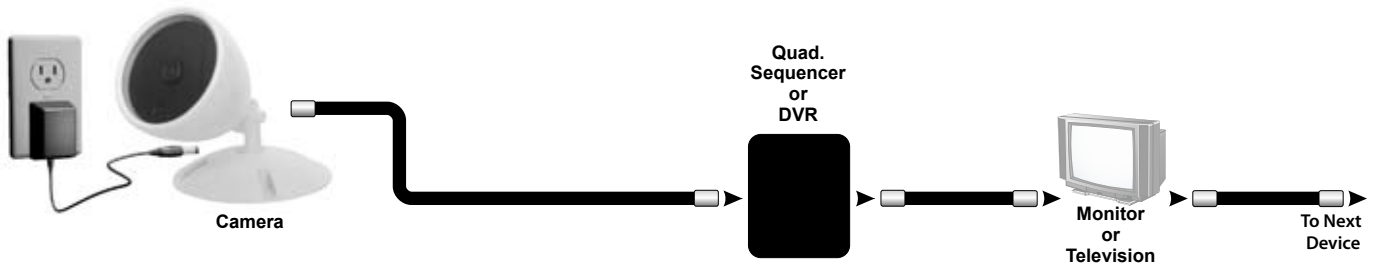

Camera · **Quad. Sequencer or DVR** · **Monitor or Television** · **To Next Device**

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

Camera · **Modulator** · **Main cable or antenna** · **Amplifier** · **Splitter/Combiner** · **Distribution Panel or Splitter** · **Television** · **Television**
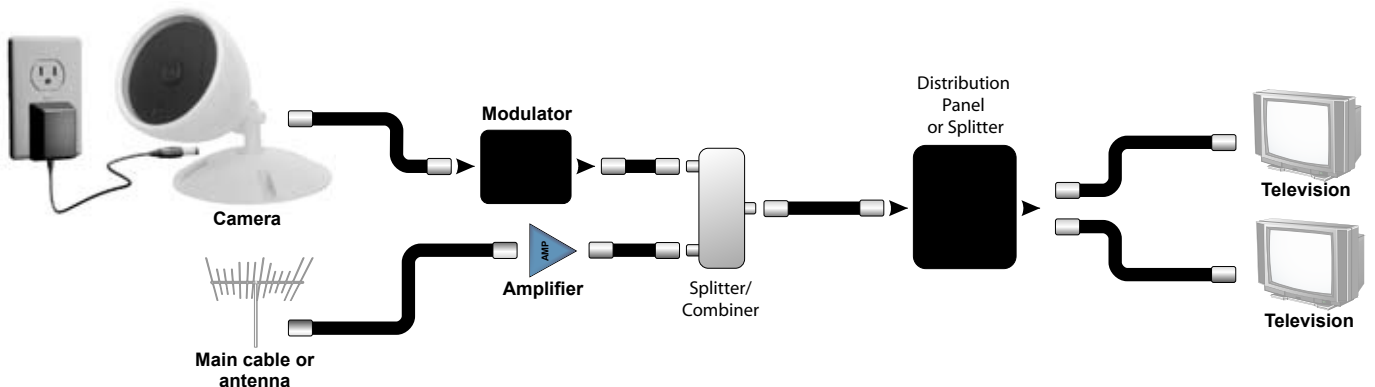
Figure 3 - Connecting the camera to a modulator for whole house distribution and standard television viewing on the modulated channel. The modulator can also be the last piece of equipment in Figure 2.

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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 to 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 Number: VIDLAMP-CI

Model Number: VIDLAMP-DI

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.

Figure 4 - Grounding the camera through the base with a grounded coax

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part15 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.

NM-VIDLAMP

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.