

NM-POCSET

PoC Encoder/Decoder Set

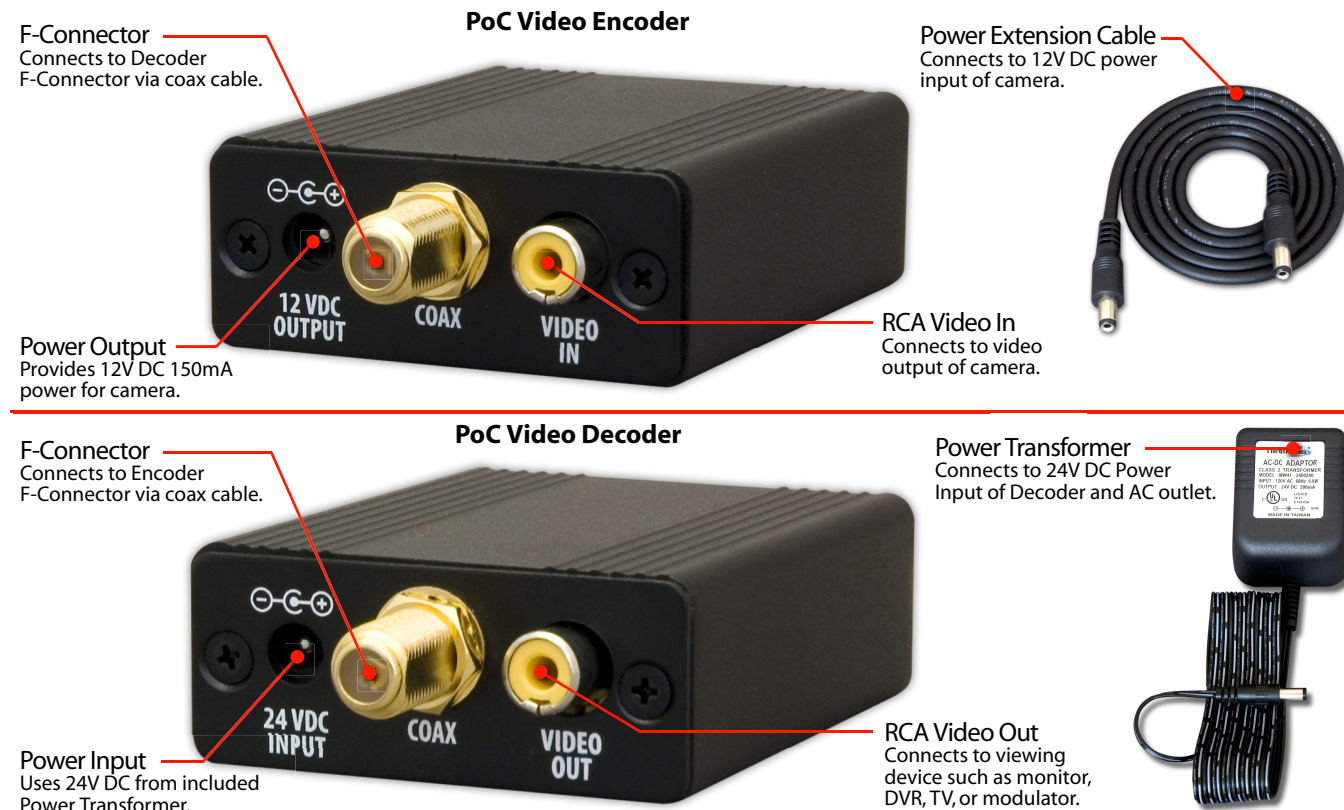
Video and Power Transmission Device



The NetMedia Power over Coax PoC Video Encoder and Decoder modules allow popular 12V DC cameras to use one coax cable, such as RG6, for both power and video. There is no need to run multiple cables to the camera location! The modules support cable distances up to 100 feet. To view the video, use a security monitor or the composite RCA Video Input jack of a television.

Product Includes:

1. NetMedia PoC Video Encoder module.
2. NetMedia PoC Video Decoder module.
3. 24V DC 200mA Power Transformer.
3. Power Extension Cable and two RCA Video Cables.



FEATURES

- One Wire Video™ Installation
- Supports popular color and B/W cameras
- Provides remote 12V DC 150mA power
- Uses one coax for power and video
- Uses pre-existing coax cable
- Supports up to 100 ft with color and B/W
- Supports standard F-connectors
- Sturdy aluminum boxes
- Includes power supply
- 1 year limited warranty

SPECIFICATIONS

Input/Output Video Connector:	Female RCA
Input/Output Video Signal:	Composite
Encoder/Decoder Video Connector:	Female F-Connector
Encoder/Decoder Video Signal:	Proprietary
Encoder/Decoder Cable Type:	Coax: RG6 quad shield recommended
Encoder/Decoder Cable Distance Range:	Up to 100'
PoC Encoder Size:	3.2" long, 2.2" wide, 0.9" thick
PoC Encoder Weight:	3 oz.
PoC Encoder Power Output:	12V DC, 150mA
PoC Encoder Power Connector:	5.5mm OD, 2.1mm ID, center positive
PoC Decoder Size:	3.2" long, 2.2" wide, 0.9" thick
PoC Decoder Weight:	3 oz.
PoC Decoder Power Input:	24V DC, 200mA
PoC Decoder Power Connector:	5.5mm OD, 2.1mm ID, center positive

(subject to change without notice)

NM-POCSET

Installation Procedures:

1. Connect a coax cable (RG6 recommended) to the F-Connectors of the Video Encoder and Decoder. Each Encoder/Decoder pair needs a dedicated point-to-point wiring circuit. **Do not connect the Encoder/Decoder coax to other video distribution equipment! Doing so could damage this product and/or the other attached devices!**
2. Connect a video cable from the camera to the Encoder's RCA Video In jack. Simple adapters, such as RCA to BNC, may be used where appropriate.
3. Connect the Power Extension Cable from the Encoder's Power Output Connector to the camera's 12V DC power input. If the camera requires more than 150mA or if it does not use 12V DC then it cannot use the Encoder's power output.
4. Connect a video cable from the viewing device (monitor, Quad, DVR, modulator, etc.) to the Decoder's RCA Video Out jack using appropriate adapters where necessary.
5. Connect the 24V DC 200mA Power Transformer from an AC outlet to the Decoder's Power Input Connector.

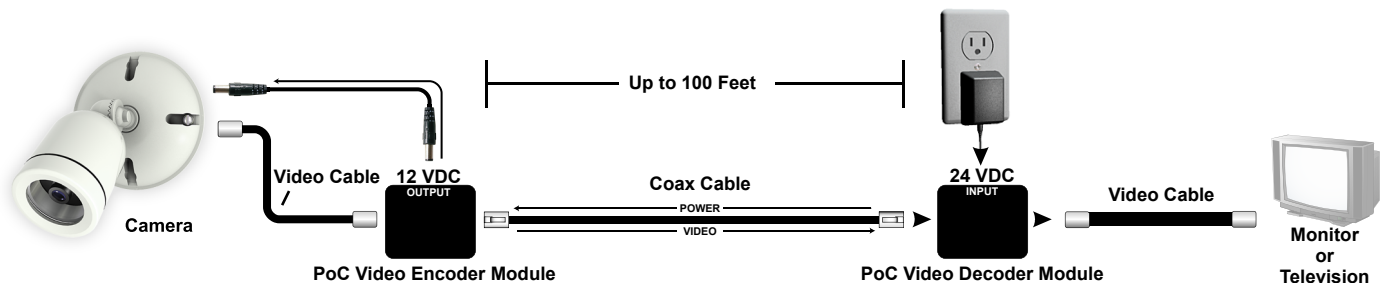


Figure 1 - Connecting the modules to a security monitor or standard television. Use the TV's composite RCA Video In jack and view through its video or line input. The picture will not be available on a channel.

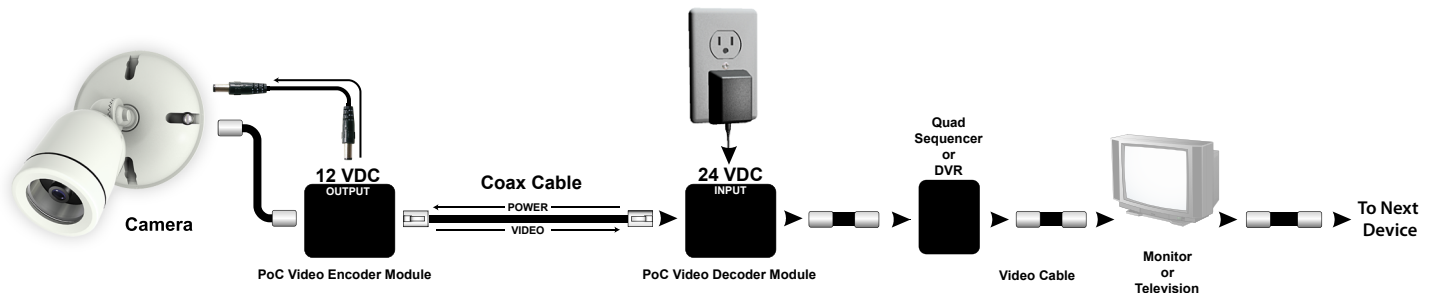


Figure 2 - Connecting the modules to multiple pieces of video equipment. Every piece except the last must have a loopback or video output jack.

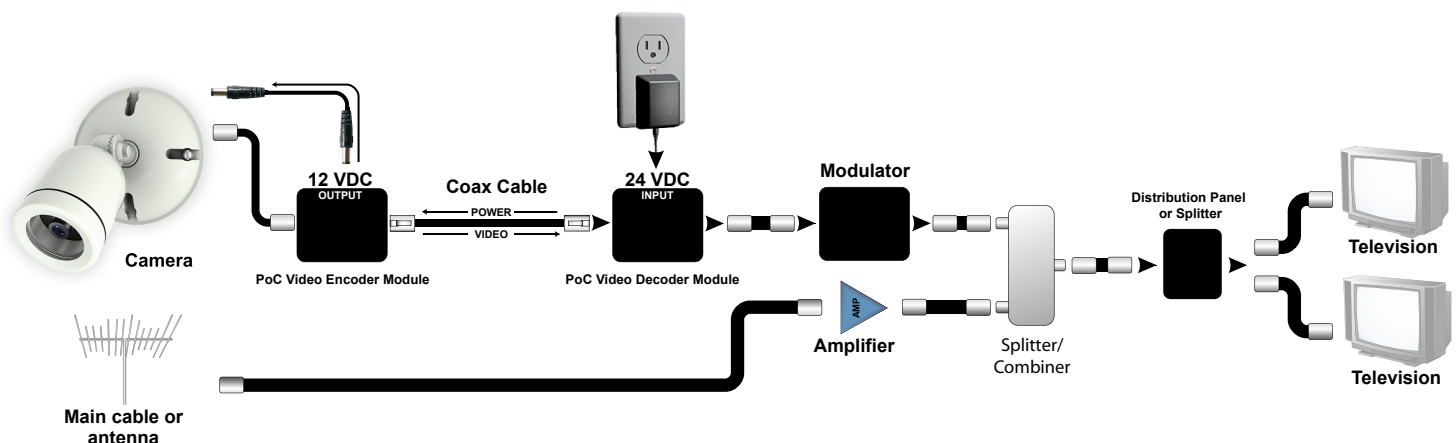


Figure 3 - Connecting the modules to a modulator for whole house distribution and standard television viewing on the modulated channel. The modulator can also be the last piece of equipment in Figure 2.

PoC Encoder/Decoder Set

Video and Power Transmission Device



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.

Power over Coax Encoder/Decoder Set:

FCC compliance requires that the Video Encoder and Decoder module end plates be fastened whenever the units are in operation.

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: Power over Coax Video Encoder and Decoder Set

Model: NM-POCSET

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.

Frequently Asked Questions

Q-Can I connect the coax between the modules to video distribution equipment?

A- NO! Do not connect the F-Connector coax of the Video Encoder or Decoder other video equipment! Doing so could damage this product and/or the other attached devices! The Decoder outputs DC voltage on the coax that other equipment may not be prepared to handle. Each Encoder/Decoder pair needs a dedicated point-to-point circuit; nothing else can share their coax. Also, the modules will not work properly with RF splitters, diplexers, and amplifiers. The RCA Video Out jack of the Decoder can connect to composite video equipment such as monitors, TV's, DVR's, and modulators

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

A- The composite video signal from the PoC Decoder 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 Decoder 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-Will the modules work at distances beyond 100 feet?

A-Though we do not recommend or support doing so, some people find that the modules function satisfactorily at distances greater than 100 feet. At that range, the video quality degrades as the cable length increases but until the power gives out over the next few hundred feet, it may still be acceptable for your application.

Q-What is the difference between Power over Coax and modulated devices?

A- Both are similar because they enable One Wire Video™ using a single coax. They differ though in their type of video output signal. Our modulated devices, such as the RM70 (which supplies remote power for popular 12VDC cameras), output a TV channel that requires a TV tuner to view. This is handy for distributing the signal to all the TV's with the same coax, splitters, and amplifiers that transmit the local antenna, cable, or satellite signal. It is more inconvenient though, for using the signal with equipment that does not have a tuner such as a security DVR or Quad screen display. Our PoC modules and cameras output a composite video signal that is directly compatible with such equipment. Whole house distribution can still be accomplished with PoC by modulating the output of the DVR or Quad.