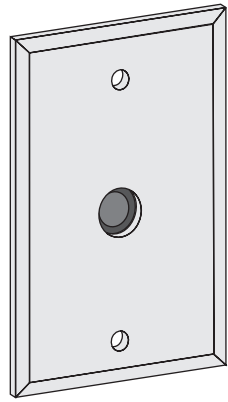# ChannelPlus Video Camera

The H721 video cameras are solid state cameras designed to fit standard single gang J-boxes. The H721 must be used with one of its companion channel injectors (H511HHR or H511BID). When used with an H511, video received from the H721 is used to create a new channel to add to existing television channels. The H721 is connected to the H511 by a single run of CAT-5 wire and does not need to be separately powered. The camera mount is weather-resistant and comes with a standard single-gang gasket. The brass cover-plate may be painted to match a house color.
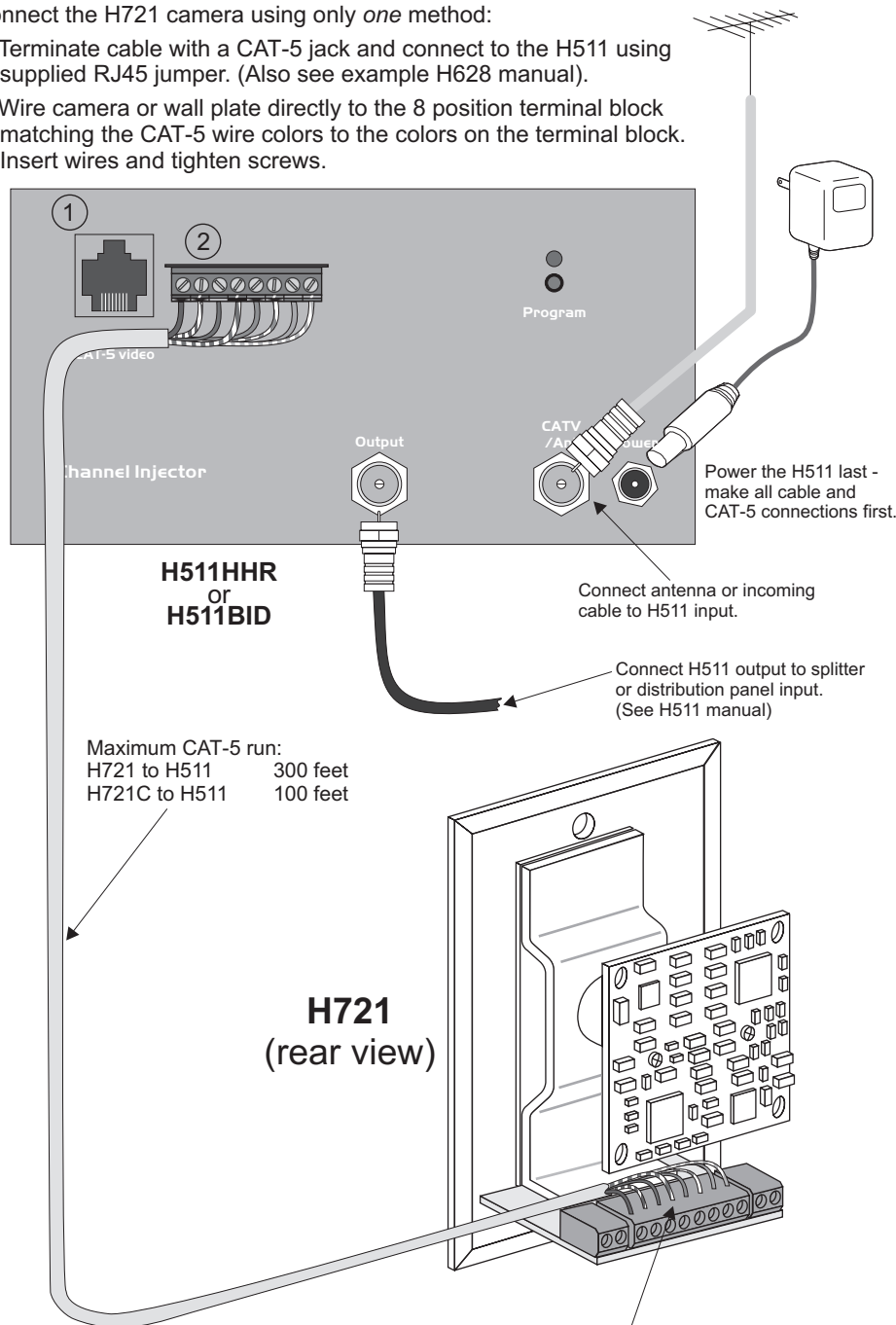
Two models are available:
Model H721
Black & White, 0.3 lux, 3.6 mm lens
Model H721C
Color, 6 lux, 3.6 mm lens

Note: *The H721 is not a standalone video camera Use only with an H511 channel injector.*

Typical Installation

Connect the H721 camera using only *one* method:

① Terminate cable with a CAT-5 jack and connect to the H511 using supplied RJ45 jumper. (Also see example H628 manual).

② Wire camera or wall plate directly to the 8 position terminal block matching the CAT-5 wire colors to the colors on the terminal block. Insert wires and tighten screws.
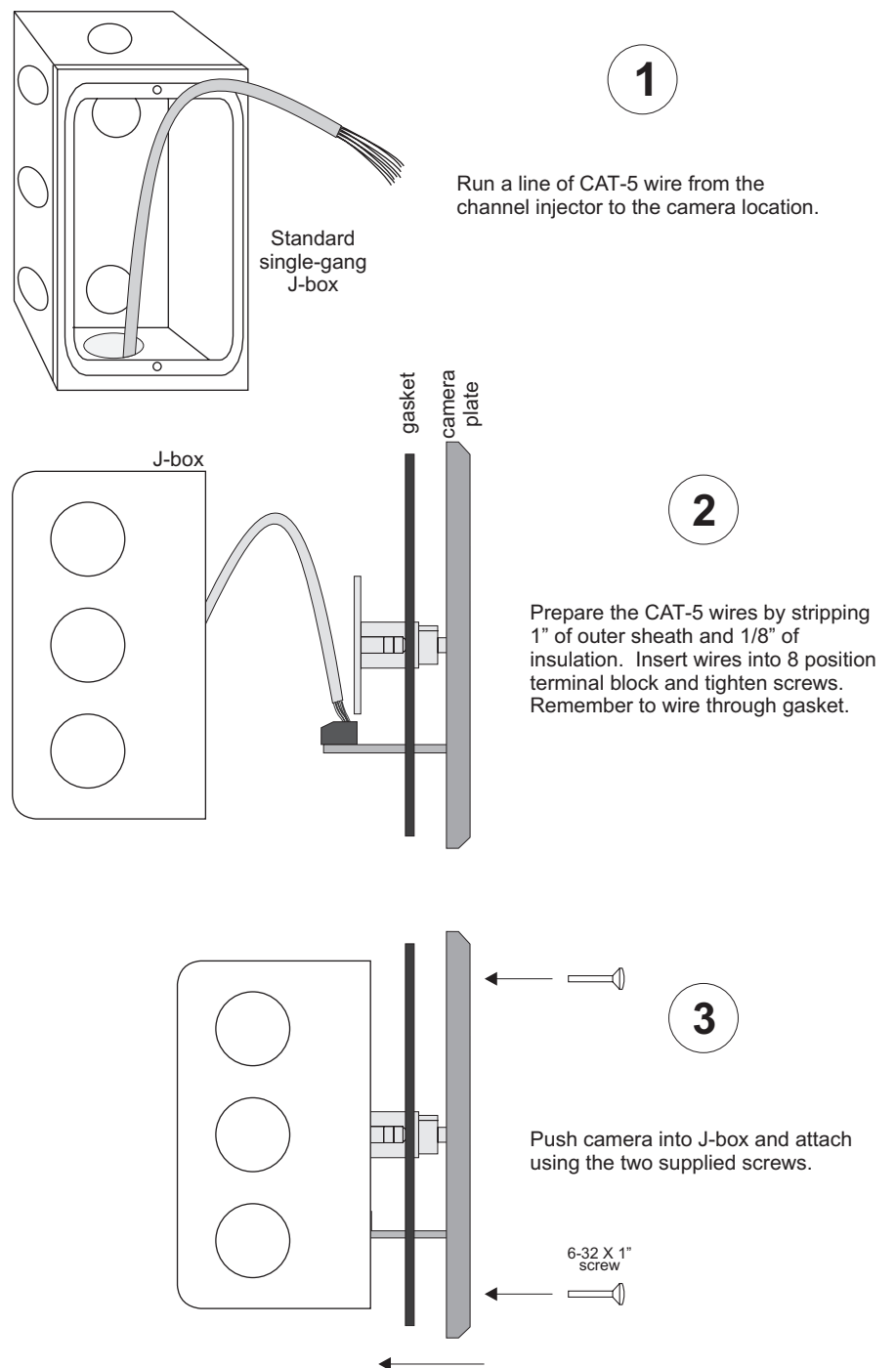
Program

H511HHR
or
H511BID

Power the H511 last - make all cable and CAT-5 connections first.

Connect antenna or incoming cable to H511 input.

Connect H511 output to splitter or distribution panel input. (See H511 manual)

Maximum CAT-5 run:
H721 to H511   300 feet
H721C to H511   100 feet

H721
(rear view)

Insert wire into terminal block and tighten screws. Use the color bar to match wire colors. The color bar has two rows, one for CAT-5 and one for quad wire:
- For CAT-5 wire, remove the default resistor and use all 8 wires.
- For quad wire*, leave default resistor in place and match four color wire.

*The H721/H721C was designed to work with CAT-5 wiring. Although the system will function with quad wire, CAT-5 delivers the highest quality picture. CAT-5 allows the use of an automatic line length sensor and picture compensator. Quad wire does not take advantage of this enhancement.

Specifications: typical @ $25^{\circ}C \pm 5^{\circ}C$

Model	H721	H721C
Image format	EIA (Black & White)	NTSC (Color)
Resolution, horizontal	525 lines	525 lines
Resolution	350 lines	350 lines
Minimum illumination	0.3 lux	6 lux
Signal to Noise ratio	>45 dB	>45 dB
AGC	Yes	Yes
Lens	3.6mm F2.0	3.6mm F2.0
Lens viewing angle	78°	78°
White balance	automatic	automatic
Electronic shutter speed	1/60 to 1/50000 second	1/60 to 1/50000 second
Maximum distance to H511	300 feet	100 feet

Installing the Camera

The H721 is designed to be mounted in a single-gang J-box using the supplied gasket.

Standard single-gang J-box

1

Run a line of CAT-5 wire from the channel injector to the camera location.

gasket
camera plate

J-box

2

Prepare the CAT-5 wires by stripping 1" of outer sheath and 1/8" of insulation. Insert wires into 8 position terminal block and tighten screws. Remember to wire through gasket.

3

Push camera into J-box and attach using the two supplied screws.

6-32 X 1" screw

Locating the Camera

The camera 'looks' straight out from the cover-plate. For a front door application, place the camera lens 66 inches off the ground, adjacent to the door.

Painting the Cover-Plate

The brass cover-plate may be painted to match the house color. First, remove the camera from the plate. Lightly sand the plate using 300-400 grit wet/dry paper. Use a good quality metal primer that is rated for exterior use. Before applying the primer, follow the manufacturers instructions for cleaning the plate. Standard house paints may now be used.

DECLARATION OF CONFORMITY

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. 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.

Installation requirements:
FCC classifies this product under part 15 of its rules as a "television interface device". Systems designed using television interface devices have the following legal requirements:
1) The modulated channel signal strength may not exceed 15.56dBmV at any television. *Federal Regulation 47CFR15.115(b)(1)(i).*
2) If an antenna is used in the system, the modulated channel signal strength may not exceed -51dBmV at the antenna input port. *Federal Regulation 47CFR15.115(c)(4).*

For the Installer:
Any system you design must comply with these regulations. As the installer, you are responsible. The H721 or H721C (when used with an H511) has the necessary characteristics to comply with the above requirements as designed without additional accessories. The H511HHR is suitable for use with an antenna or with CATV systems. The H511BID is suitable for use with CATV systems only.

Open House™
Compatible

ChannelPlus Enclosures, Modules, Accessories & Wall Plates

Service center enclosures
A full line of OpenHouse compatible enclosures, from simple, inexpensive mounting plates to high capacity in-wall cabinets. AC outlets can be mounted inside the cabinets using a UL listed accessory.

Starter systems
RF splitters and telephone punch downs. When it is time to upgrade, just snap this module out and replace with one of more of the more sophisticated units.

Data hubs
Termination blocks for the CAT-5 cables, Ethernet hubs. Bring the Internet to any room in the home. Or create a home data network.

Telephone hubs
Connections for 1-4 phone lines to every room. Starter hub adds RJ-31X jack for security system dialer.

Wall plates
Wall plate systems for all rooms. The typical room gets TV and telephone. The Home office wall plate adds data ports. The media center wall plate adds satellite feeds.

Coax panels
Distribute antenna or cable TV to every room of the house. Some models include bi-directional amplifiers for interactive cable systems. Some models include modulator inputs and IR engines.

AV modulators (for service center)
Create a new TV channel for a front door camera. Some models feature Cat-5 input connections.

AV modulators (for media center)
Create new TV channels for DVD, VCR, or a satellite receiver. These modulators sit in the media center. Some offer true MTS stereo.

IR Accessories
Control video devices from any room.

New ChannelPlus products are added all the time.
Visit our website to learn more: www.channelplus.com

Wiring a house for OpenHouse

The cables in an OpenHouse run from the various rooms of the house directly to the service center location.(This is known as 'home run' wiring.) Two types of wire are used for communication and entertainment: Cat-5, 4-UTP (4 Unshielded Twisted Pairs) wire handles data or 1 to 4 telephone lines. RG-6 coax handles television (antenna or cable), satellite dish, cable modem, or AV modulator signals. (An AV modulator creates new TV channels for front door camera, DVD player, a VCR or a satellite receiver.)

We recommend the following pre-wire schemes. Run these wires from the service center to the rooms indicated.

	Typical Room	Media Center	Home Office
Good	1 Cat-5 / 1 RG-6	1 Cat-5 / 3 RG-6	1 Cat-5 / 2 RG-6
Better	2 Cat-5 / 1 RG-6	2 Cat-5 / 3 RG-6	2 Cat-5 / 2 RG-6
Best	2 Cat-5 / 2 RG-6	3 Cat-5 / 3 RG-6	3 Cat-5 / 3 RG-6

Good ...
Typical room - phone, TV
Media center - phone, satellite receiver, AV modulators
Home office - phone, TV, cable modem

Better ...
Typical room - phone, TV, ethernet
Media center - phone, TV, ethernet, satellite receiver, AV modulators
Home office - phone, TV, ethernet, cable modem

Best ...
Typical room - phone, TV, ethernet, satellite receiver
Media center - phone, TV, ethernet, satellite receiver, AV modulators, hi-speed data
Home office - phone, TV, ethernet, satellite receiver, cable modem, hi-speed data

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Open House™
ChannelPlus®
Video Cameras
Models H721 & H721C

multiplex® technology, inc.

www.channelplus.com

Warranty

Multiplex Technology, Inc. warrants this product to be free from defects in materials and workmanship for a period of one year from the date of purchase or MTI will repair, or at its option, replace the defective product. To obtain warranty service, call MTI for a return material authorization (RMA) number and return the product prepaid
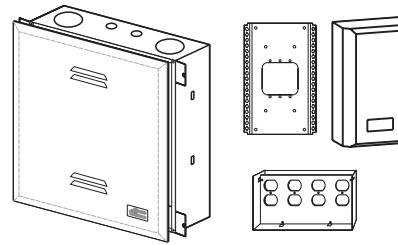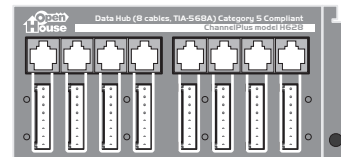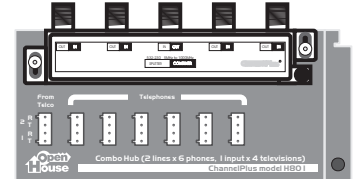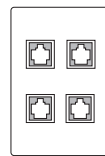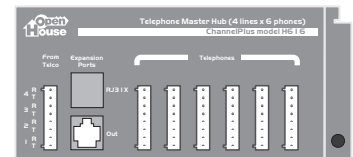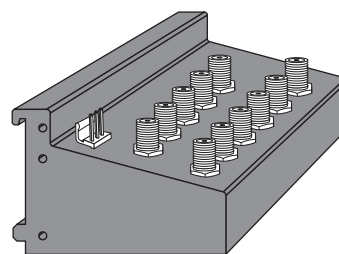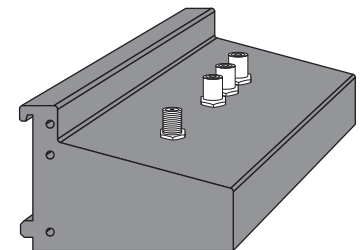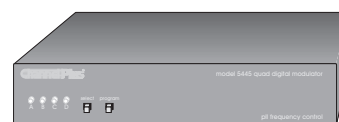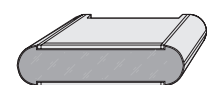Attention: Customer Service. Please put the RMA number on the outside of the carton.

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