ChannelPlus Channel Injector

The H511 channel injector creates a new channel to add to existing television channels. The H511 was designed to work with an existing installation without the need to add additional hardware such as a coax panel or additional co-ax wiring to the video source. The H511 creates this new channel from a video signal it receives via a CAT-5 cable connected to one of its compression products such as the H211 camera or H110 wall plate.

**Typical Installation**

Connect to a camera or wall plate 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.**

**H511HR**

Remove antenna or incoming cable from existing distribution and connect to H511 input.

**OpenHouse™ modules attach from the top**

1. **Hook from the top**
2. **Swing into place**
3. **Push button to lock**

**Programming the H511**

Program the new channel using the Program push button to enter channel digits into the H511. This new channel should be an unused channel. It should have no interference or trace of a picture - just "snow". There must also be one unused channel both above and below the selected channel to avoid interference. Below is a simple step by step example of how to program a channel - cable channel 120.

**Cable HRC and IRC considerations:**

Most cable services use standard or IRC frequency assignments. This is the default for the H511. However, if the cable services use HRC or the TV appears to search for the "created channel", program the channel injector for HRC.

**For HRC enter a 98.** Reset to IRC by entering 99.

Entries 98 and 99 are for setting HRC or IRC only. They do not change the channel number.

**CAT-5 Cable Length Limitations:**

The length of the CAT-5 cable that runs between the H511 and the camera or wall plate is limited. See the individual camera or wall plate manuals for those CAT-5 cable run limitations.

**Specifications:**

<table>
<thead>
<tr>
<th>CATV/Ant Input</th>
<th>H511HHR</th>
<th>H511BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Gain</td>
<td>2dB</td>
<td>2dB</td>
</tr>
<tr>
<td>Output to CATV/Ant input</td>
<td>-4dB</td>
<td>-4dB</td>
</tr>
<tr>
<td>Reverse</td>
<td>54-800MHz</td>
<td>54-800MHz</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>5-800MHz</td>
<td>5-800MHz</td>
</tr>
<tr>
<td>RF Output</td>
<td>2dB</td>
<td>2dB</td>
</tr>
<tr>
<td>Channel ranges</td>
<td>UHF</td>
<td>CATV/Ant input</td>
</tr>
<tr>
<td>CATV</td>
<td>65-125 MHz (excluding 95-99)</td>
<td></td>
</tr>
<tr>
<td>Output level</td>
<td>+12 dBmV nominal</td>
<td></td>
</tr>
<tr>
<td>IM Distortion</td>
<td>-60 dBc</td>
<td></td>
</tr>
<tr>
<td>Assist channel</td>
<td>-45dBc @ 12MHz</td>
<td></td>
</tr>
<tr>
<td>Audio performance</td>
<td>Differential gain</td>
<td>+4dB</td>
</tr>
<tr>
<td>Intermodulation distortion</td>
<td>+4dB</td>
<td></td>
</tr>
<tr>
<td>Signal/Noise</td>
<td>55 dB</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>Model number</td>
<td>560-079</td>
</tr>
<tr>
<td>Output current</td>
<td>500mA</td>
<td></td>
</tr>
<tr>
<td>Input voltage</td>
<td>12 VDC</td>
<td></td>
</tr>
<tr>
<td>Input power</td>
<td>105-125 WAC</td>
<td></td>
</tr>
</tbody>
</table>

**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."

- **Bible** systems designed using television interface devices have the following legal requirements:
  1. The modulated channel signal strength must not exceed 15.56dBmV at any television.
  2. If an antenna is used in the system, the modulated channel signal strength must not exceed -51dBmV at the antenna input port. Federal Regulation 47CFR15.105(6)

**For the Installer**

Any system you design must comply with these regulations. As the installer, you are responsible. The H511 has the necessary characteristics to comply with the above requirements as designed without additional accessories. Use of any CATV systems.

**H511BID is suitable for use with CATV systems only.**
Open House™

Compatible

Wiring a house for OpenHouse

The circuit in the OpenHouse runs to various rooms of the house. The service center to the rooms indicated.

We recommend the following pre-wire schemes. Run these wires from the service center to the rooms indicated. This is known as 'home run' wiring. Two types of wire are used for communication and entertainment. Cat-5, 4-UTP (4 nshielded twisted pairs) wire handles telephone and 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 cable box or a satellite receiver.)

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.

Any implied warranty arising from the sale of the product including implied warranties of merchantability and fitness for purposes are limited to the warranty stated above. MTI shall not be responsible for losses or damages or expenses, whether direct, consequential or incidental arising from the use of or the inability to use this product. Some states do not allow limitations on how long the implied warranty lasts or the exclusion or 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 may vary from state to state.

Warranty

www.channelplus.com

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

Wiring a house for OpenHouse

Model H511HHR & H511BID

ChannelPlus Enclosures, Modules, Accessories & Wall Plates

 losers your rights which may vary from state to state. You may have other rights which may vary from state to state.

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-45 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 antennas 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

Create a new TV channel for a front door camera. Some models feature Cat-5 input connections.

AV modulators

Create new TV channels for DVD, VCR, a cable box, 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