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Channel Vision HS-8

Channel Vision HS-8 8-Way Passive Splitter/Combiner User Manual

Model: HS-8

1. INTRODUCTION

The Channel Vision HS-8 is an 8-way passive splitter/combiner designed for efficient video distribution systems. This device allows a single input signal to be distributed to up to eight outputs, or multiple input signals to be combined into a single output. It features IR (Infrared) and DC (Direct Current) passing capabilities on all ports, making it suitable for various satellite and cable television applications. This manual provides essential information for the proper installation, operation, and maintenance of your HS-8 unit.

2. PRODUCT FEATURES

- **8-Way Configuration:** Distributes or combines signals for up to eight connections.
- **Passive Design:** Operates without external power, suitable for various signal types.
- **1 GHz Bandwidth:** Supports a wide range of frequencies for television and satellite signals.
- **IR Passing All Ports:** Allows infrared signals to pass through for remote control functionality.
- **DC Voltage Passing All Ports:** Enables power to be supplied to or from connected devices.
- **Female 75 Ohm F-Type Connectors:** Standard connections for coaxial cables.
- **PCB Printed Circuit Board Design:** Ensures reliable signal integrity.
- **Nickel Plated Housing:** Provides durability and corrosion resistance.
- **Easy Installation:** Designed for straightforward setup, even with larger coaxial cables.

3. SAFETY INFORMATION

Please read and understand the following safety precautions before installing or operating the HS-8 unit:

- **Electrical Safety:** Ensure all connected devices are properly grounded. Avoid contact with live electrical wires.
- **Environmental Conditions:** Install the unit in a dry, well-ventilated area, away from direct sunlight, heat sources, and moisture.
- **Cable Management:** Route cables carefully to prevent tripping hazards or damage to the cables and

connectors.

- **Professional Installation:** If you are unsure about any part of the installation process, consult a qualified technician.

4. PACKAGE CONTENTS

- Channel Vision HS-8 8-Way Passive Splitter/Combiner Unit

Note: Coaxial cables and F-connectors are sold separately.

5. SETUP AND INSTALLATION

Follow these steps to install your HS-8 splitter/combiner:

1. **Identify Ports:** The HS-8 unit typically has one input port and eight output ports, or vice-versa when used as a combiner. These are usually labeled as "IN/OUT" or similar.
2. **Connect Input Cable:** Connect the main coaxial cable carrying the signal (e.g., from an antenna, cable box, or satellite dish) to the designated input port on the HS-8. Ensure the F-connector is securely tightened.
3. **Connect Output Cables:** Connect individual coaxial cables from the output ports of the HS-8 to your televisions, satellite receivers, or other devices. Securely tighten all F-connectors.
4. **Unused Ports:** For optimal signal integrity, it is recommended to terminate any unused output ports with 75-ohm terminators.
5. **Mounting (Optional):** The unit may have mounting tabs. Secure it to a stable surface using appropriate screws if desired.



Figure 1: Illustrative image of a coaxial splitter. The HS-8 features 8 ports for signal distribution.

Important Note on Passive Splitters: As a passive device, the HS-8 does not amplify the signal. Splitting a signal will naturally result in some signal loss. If you experience weak signals or poor picture quality after installation, you may need to install a signal amplifier before the splitter to boost the input signal.

6. OPERATING INSTRUCTIONS

The Channel Vision HS-8 operates automatically once installed. It functions as follows:

- **Signal Distribution:** When used as a splitter, the input signal is divided and sent to all connected output devices.
- **Signal Combination:** When used as a combiner, signals from multiple input sources are merged into a single output.
- **IR Pass-Through:** Remote control signals (IR) from connected devices can pass through the splitter to control source equipment.
- **DC Pass-Through:** Direct current voltage can pass through all ports, which is essential for powering certain satellite LNBs or other active components.

No user intervention is required for its basic operation after proper installation.

7. MAINTENANCE

The HS-8 is a low-maintenance device. To ensure its longevity and optimal performance:

- **Keep Clean:** Periodically wipe the unit with a soft, dry cloth to remove dust. Do not use liquid cleaners or solvents.
- **Check Connections:** Occasionally inspect all coaxial cable connections to ensure they are secure and free from corrosion. Loose connections can lead to signal degradation.
- **Environmental Check:** Ensure the installation environment remains dry and free from extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your HS-8 unit, consider the following troubleshooting steps:

- **No Signal or Poor Picture Quality:**
 - Verify all coaxial cable connections are tight and secure.
 - Check the condition of the coaxial cables for any damage or kinks.
 - Ensure the input signal source is functioning correctly.
 - As the HS-8 is passive, signal loss occurs with splitting. If the input signal is already weak or if you are splitting it many times, consider installing a signal amplifier before the splitter.
 - Ensure any unused ports are terminated with 75-ohm terminators.
- **Intermittent Signal:**
 - Check for loose connections at the splitter and at the connected devices.
 - Inspect cables for damage that might cause intermittent contact.
- **Remote Control Not Working (IR Issues):**
 - Ensure IR emitters/receivers are correctly positioned and connected.
 - Verify that the IR pass-through feature is compatible with all connected devices.
- **Device Not Powering On (DC Pass Issues):**
 - Confirm that the power source for the DC voltage is active and correctly connected.
 - Check the DC voltage requirements of the connected device and ensure the source provides adequate power.
- **Unit Failure:** While designed for durability, electronic components can degrade over time. If all troubleshooting steps fail, the unit may have reached the end of its operational lifespan.

9. SPECIFICATIONS

Model Number	HS-8
Type	Passive Splitter/Combiner
Number of Ports	8-Way
Bandwidth	1 GHz (5MHz - 1GHz)
Impedance	75 Ohm

Connector Type	Female F-Type
IR Passing	All Ports
DC Voltage Passing	All Ports
Product Dimensions	4.5 x 2.5 x 1.5 inches (11.43 x 6.35 x 3.81 cm)
Item Weight	6.4 ounces (181.44 grams)
Manufacturer	Channel Vision

10. WARRANTY AND SUPPORT

Channel Vision products are designed for reliability and performance. For specific warranty information regarding your HS-8 unit, please refer to the documentation provided at the time of purchase or visit the official Channel Vision website. If you require technical assistance or have questions not covered in this manual, please contact Channel Vision customer support directly.

Contact Information: Please visit the official Channel Vision website for the most current support contact details.