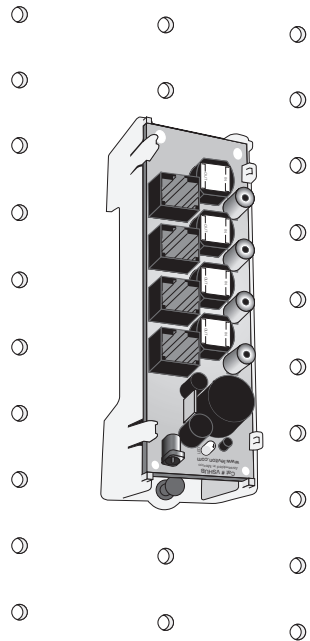# Installation Instructions

Camera Hub

DESCRIPTION

The Camera Hub will distribute video from 4 cameras to a TV monitor, multiplexer, quad or Leviton IP quad by simply patching an RCA cable to the device. The Leviton UTP camera system will transmit video and power over a single UTP (Cat 5, 5e, or 6) cable. The Camera Hub supplies DC power to the cameras, and routes video signals from the cameras to RCA connectors to adapt to most video distribution systems.

PACKAGE CONTENTS

| Camera Hub | Plastic Bracket | 4 RCA Video Cables | Power Supply |

INSTALLATION

• Install in the single plastic bracket (Cat No. 47612-SBK) supplied, or use a Leviton expansion bracket (Cat No. 47612-EBK-sold separately) and mount the Camera Hub onto the bracket in an open slot.
• Connect a Cat 5e patch cord between the Camera Hub and the Voice and Data board.
• Run power to the board using one of the power supplies listed below.

CONNECTING UTP CAMERA CABLE TO THE CAMERA HUB:

• Terminate your UTP cable in the SMC to an open port on your Leviton Voice and Data Module. (Cat No. 47605-C5B-sold separately)
• Connect a UTP patch cable from the voice and data board to one of the 4 ports on the Camera Hub.

POWERING THE UNIT

If your camera UTP cable is 100 Meters (328ft) or less the Camera Hub located inside your Structured Media™ Center will power your camera.
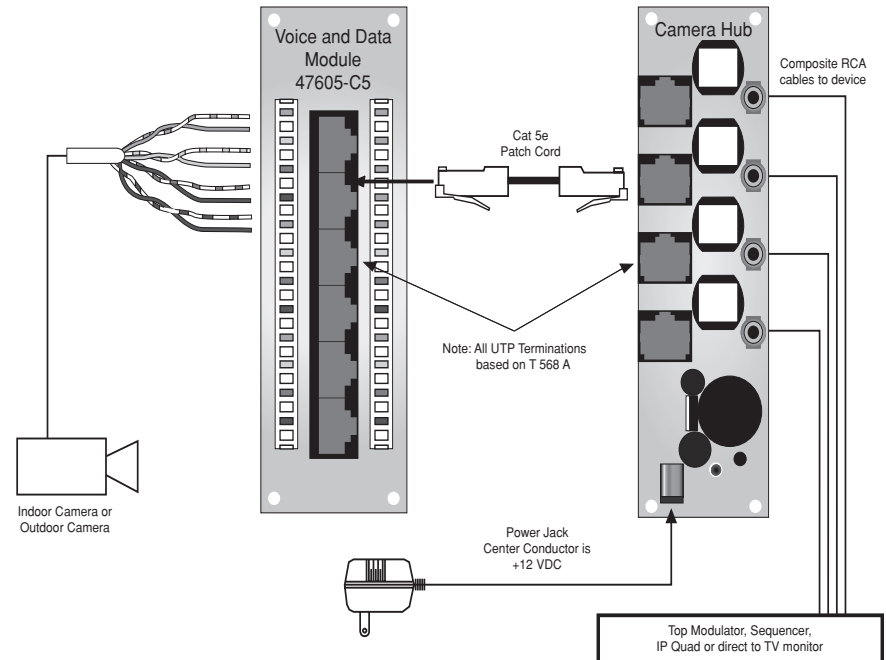
• Leviton Compatible Power Supplies:

Note: Each Outdoor Camera in no light conditions draws about 220 mA from the Camera Hub. Each Indoor Camera draws about 110 mA from the Camera Hub. Make sure the sum of the currents from all devices powered by the power supply in the SMC does not exceed the maximum output of that power supply.

• 47605-PSA (Maximum output: 12VDC at 3000 mA)
• 47605-PSB (Maximum output: 12VDC at 750 mA)
• 48212-DC (Maximum output: 12VDC at 1500 mA)

Note: The Camera Hub board (VSHUB) regulates and raises the voltage of the 12VDC input to 15VDC before sending it over the Cat 5e to the camera. Three pairs of Cat 5e cable provide power to the camera to reduce the resistance loss in the cable. A regulator circuit at the camera reduces the voltage back to 12VDC to power the camera engine.

• One pair of the Cat 5e is a balanced video signal from the camera to the SMC Camera Hub (VSHUB). The remaining pairs are for power to the camera.

Voice and Data Module 47605-C5

Camera Hub

Composite RCA cables to device

Cat 5e Patch Cord

Note: All UTP Terminations based on T 568 A

Indoor Camera or Outdoor Camera

Power Jack Center Conductor is +12 VDC

Top Modulator, Sequencer, IP Quad or direct to TV monitor

Signal Connections (T568A)	
Wire Color	**Signal**
White/Green	Power
Green	Ground
White/Orange	Video Signal
Blue	Ground
White/Blue	Power
Orange	Video Signal Ground (-)
White/Brown	Power
Brown	Ground

CONNECTING THE CAMERA HUB TO OTHER VIDEO DEVICES:

- The Camera Hub composite Video Output RCA connectors offer connection to a variety of other equipment in the Structured Media Center.
- Use the supplied composite video (RCA – to – RCA, 3 ft. cables) to connect to one or more of the following video devices:
  - Leviton Video Sequencer (Cat No. 48213-CVS)
  - Leviton Video Modulator (Cat No. 48213-VMA)
  - Direct to TV location over second RG-6QS Cable (separate from CATV or Satellite cable drop)

Note: The direct to TV application requires the use of either an RCA male connector (not supplied) terminated directly on the RG-6QS cable at the SMC end, or an RCA plug to F-connector adapter (not supplied). At the TV location, use a QuickPort Compression RCA Connector (Cat No. 40782-RWW) in the QuickPort wallplate.

CAMERA HUB SPECIFICATIONS

Camera Hub Parameter	Value
Camera Inputs	RJ-45 Jack, 4 each
Camera Outputs	Composite Video, 4 each
Input Power Connection	Center positive, 2.1 mm jack
Input Voltage	12 VDC (+/- 10%)
Input Current (max)	1500 mA
Output Voltage to Cameras	15 VDC (+/- 10%)
Output Current (maximum)	1200 mA
Power Consumption (maximum)	18 Watts
Storage Temperature	-10° C to + 60° C
Plug Power Supply Input Voltage	120 VAC (+/-15%)
Plug Power Supply Output Voltage	12 VDC (+/-5%)
Plug Power Supply Output Current	1500 mA (minimum)
Operating Temperature	0° C to + 60° C
Dimensions	Height: 5.75 (146.1 mm)
	Width: 1.75 (44.4 mm)
	Depth: 0.86 (21.8 mm)
Weight	3.2 oz. (92 g)

TROUBLESHOOTING:

No Video from Camera RCA

- Make sure both Camera and Camera Hub have correct power. The green LED should be lit on each board.
- Plug RCA cable from Camera Hub into monitor and set to composite video signal.

No Video at Camera Hub board

- Verify all RJ-45 plugs are wired T568A

IMPORTANT INSTRUCTIONS

1. Read and understand all instructions. Follow all warnings and instructions marked on the product.
2. Do not use this product near water—e.g., near a tub, wash basin, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
3. Never push objects of any kind into this product through openings, as they may touch dangerous voltages.
4. SAVE THESE INSTRUCTIONS.

SAFETY INFORMATION

1. Never install communications wiring or components during a lightning storm.
2. Never install communications components in wet locations unless the components are designed specifically for use in wet locations.
3. Never touch uninsulated wires or terminals unless the wiring has been disconnected at the network interface.
4. Use caution when installing or modifying communications wiring or components.
5. To prevent electrical shock, each opening must be filled with a module.

For Technical Assistance Call:
1-800-824-3005 (U.S.A. Only)
www.leviton.com

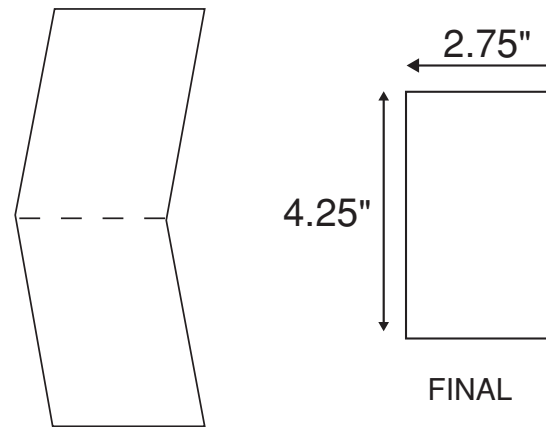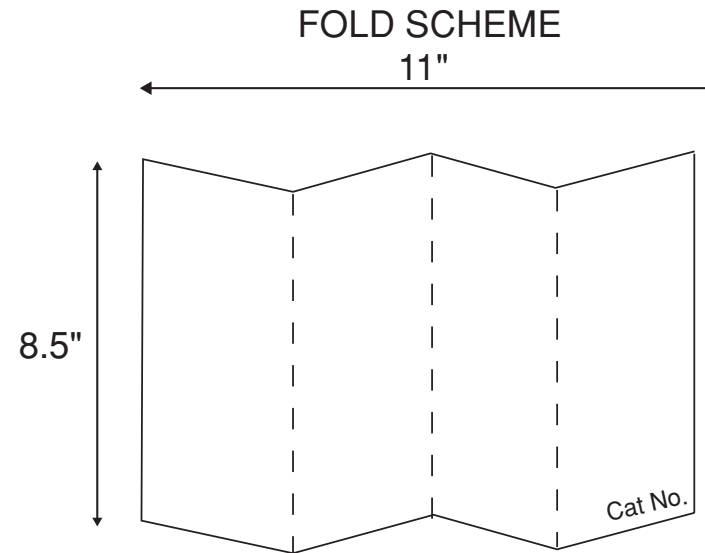DI-000-VSHUB-00A

LEVITON ARTWORK SPECIFICATIONS

- Artwork No/Rev Level: DI-000-T5979-20A
- Color(s): 1 over 1
  1. Black   2. _____
  3. _____   4. _____
  5. _____   6. _____
- Font Families: Helvetica
  _____
- Material Type: 50 lb. offset
  _____ Gauge: _____
- Coating:
  ☐ Aqueous Gloss   ☐ Blister Coating
                          (Wax Free Inks)

DOCUMENTATION

- ECO No.: N/A
- Art Revision Description: _____
  _____
- Artist: HSZ   Date: 11/15/06

FOLD SCHEME

11"

8.5"

Cat No.

2.75"

4.25"

FINAL

— — — — — Fold Line

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