



VADDIO™ HOT-SHOT™ PRESET CAMERA CONTROLLER

**Automated Preset Controller for the Vaddio PTZ Cameras, Select
Hardware Codecs & Control Systems**

Part Numbers:
999-1036-000 North America
999-1036-001 International



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Overview:

The Hot-Shot Preset Camera Controller is part of the Vaddio Automated Content Presentation System product line and is truly as simple as it is elegant.



The Hot-Shot has 36 preset trigger inputs and can automate any classroom or presentation environment using a Vaddio PTZ Camera, select VISCA Cameras, select codecs or control systems and in conjunction with Vaddio's preset camera trigger devices such as MicVIEW™ Mic Mixer/Switcher, StepVIEW™ Mats, AutoVIEW™ IR Sensors, PresenterPOD™, TouchVIEW™ as well as other triggering/logic I/O devices.

The Hot-Shot will accept a trigger input from a trigger device, for example, a mat on Trigger 2. When the mat is triggered by a presenter standing on it, the Hot-Shot will output "PRESET 2" in the RS-232 protocol of the assigned camera or codec and then the camera and preset (pan/tilt/zoom coordinates) associated with Preset 2 for that device will be activated. Trigger 3 will output "Preset 3" over RS-232; Trigger 4 will output "Preset 4" and so on. The Hot-Shot does not store presets, but merely outputs the camera's or codec's control protocol to activate the presets stored in the device. The Hot-Shot can be cascaded up to 144 triggers, using 4 Hot-Shots linked via RS-232 for even the largest interactive videoconferencing environment applications using microphones or a variety of other trigger devices. Note: Cameras typically have 6 to 16 internal presets.

Currently, the Hot-Shot has the Polycom® HDX-8000 and HDX-9000 series preset recall commands, LifeSize® Room System preset commands, TANDBERG C40, C60 and C90 series preset recall commands, and even the older TANDBERG 6000MXP and 3000MXP commands are also included. For use with other control systems, the Vaddio simple ASCII API is also included to alleviate the need for multiple I/O or relay cards/boxes associated with large control systems that require many trigger inputs. The Hot-Shot will also trigger the internal presets of the Vaddio HD-20, HD-19, HD-18 and the HD-USB PTZ camera.

The Vaddio Hot-Shot Preset Camera Controller is an outstanding and super easy to operate a camera or cameras tied to codecs or control system addition. Applications for the Hot-Shot include videoconferencing, distance education, participative auditoriums, local government and council meetings and even small one-camera distance learning rooms.

Intended Use:

Before operating the system, please read the entire manual thoroughly. The system was designed, built and tested for use indoors, and with the provided power supply. The use of a power supply other than the one provided or outdoor operation has not been tested and could damage the camera and/or create a potentially unsafe operating condition.

Save These Instructions:

The information contained in this manual will help you install and operate your system. If these instructions are misplaced, Vaddio keeps copies of Specifications, Installation, User Guides and the most pertinent product drawings on the Vaddio website. These documents can be downloaded from www.vaddio.com free of charge.

Important Safeguards:

Read and understand all instructions before using. Do not operate any device if it has been dropped or damaged. In this case, a Vaddio technician must examine the product before operating. To reduce the risk of electric shock, do not immerse in water or other liquids and avoid extremely humid conditions.



Use only the 12 VDC, 1.0 Amp power supply provided with the product. Use of any unauthorized power supply will void any and all warranties. Please do not cut and extend the DC side of any camera as it will void the warranty and generally not provide the power the camera needs to operate correctly over the long term.

Unpacking:

Carefully remove all of the parts from the shipping box.

Unpack and identify the following parts for the Hot-Shot Preset Camera Controller:

- One (1) Hot-Shot Preset Camera Controller with three (3) 14-position Phoenix type spring cage connectors
- One (1) 12 VDC, 1.0 Amp PowerRite™ Power Supply with AC Cord Set
- Documentation (User Manual 342-0124)

Hot-Shot Key Features:

- **Each Hot-Shot can receive up to 36 physical trigger inputs from any trigger device.**
For example; MicVIEW, AutoVIEW IR Sensor, StepVIEW Mats, TouchVIEW Buttons and PresenterPOD (even paper clips too) can be used as triggers.
- **Up to 4 Hot-Shots can be cascaded together for a total of 144 trigger inputs.**
While TANDBERG and LifeSize do not offer that many camera presets, the Polycom systems offer up to 99.
- **The Hot-Shot outputs RS-232 commands in the protocol of the selected device.**
 - Cisco C40, C60 and C90 series codecs and TANDBERG 6000MXP, 3000MXP
 - Polycom HDX-9000 and HDX-8000
 - LifeSize Room Series Codecs (with RS-232 Port)
 - Vaddio Generic (for use with Crestron® or AMX® Systems)
 - Vaddio HD-20, HD-19, HD-18 and HD-USB PTZ Cameras
- **Flexible triggering modes are included.**
The Hot-Shot can be set up as a “Last Step” or “First Step” triggering mode. Setting it up in Last Step Mode allows for the last trigger activated to switch to that trigger’s preset. First Step trigger mode allows the first trigger to activate and then prevent all other triggers until the first trigger is released.
- **Default Idle Return to Preset 1.**
Default idle return to preset 1 allows the system to use Preset # 1 (Polycom and TANDBERG MXP codecs use Preset “0”) stored in the codec as the default camera shot when no triggers are present. This is especially useful for a teacher’s or presenter’s position when setting up the room for teacher/student discussions.

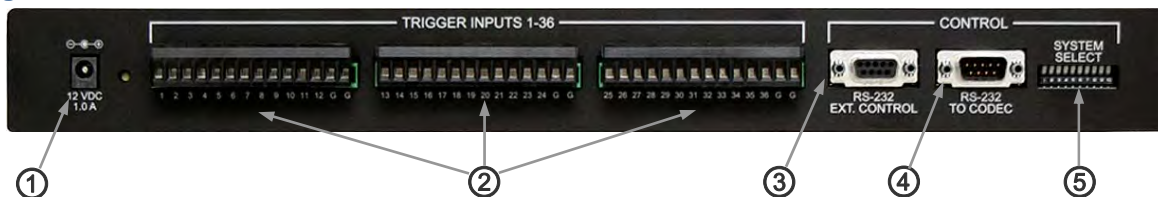
Hot-Shot Preset Camera Controller Basic I/O:

Image: Front Panel



- 1) Power/Preset Enable Switch: To bypass presets, touch the Power switch, LED light off indicates the presets are disabled. When power is connected to the system, the blue LED will illuminate.

Image: Rear Panel



- 1) Power Input - 12 VDC, 1.0 Amp Power Connection, 5.5mm OD x 2.5mm ID, Positive Center
- 2) Thirty Six (36) Trigger Inputs: Triggers on phoenix-type connectors with six (6) ground pins to support multiple triggers
- 3) RS-232 Ext. Control: For Hot-Shot cascading and external control system feed-thru
- 4) RS-232 Out: Preset # ASCII strings out to codec or control system and Hex commands to the Vaddio Cameras
- 5) System Select: 10-position dip switch selects output preset codes, first or last step trigger modes, assign Preset 1 as default preset and master/slave cascade functionality

Diagram: Basic Connectivity featuring the Hot-Shot and C60 Codec

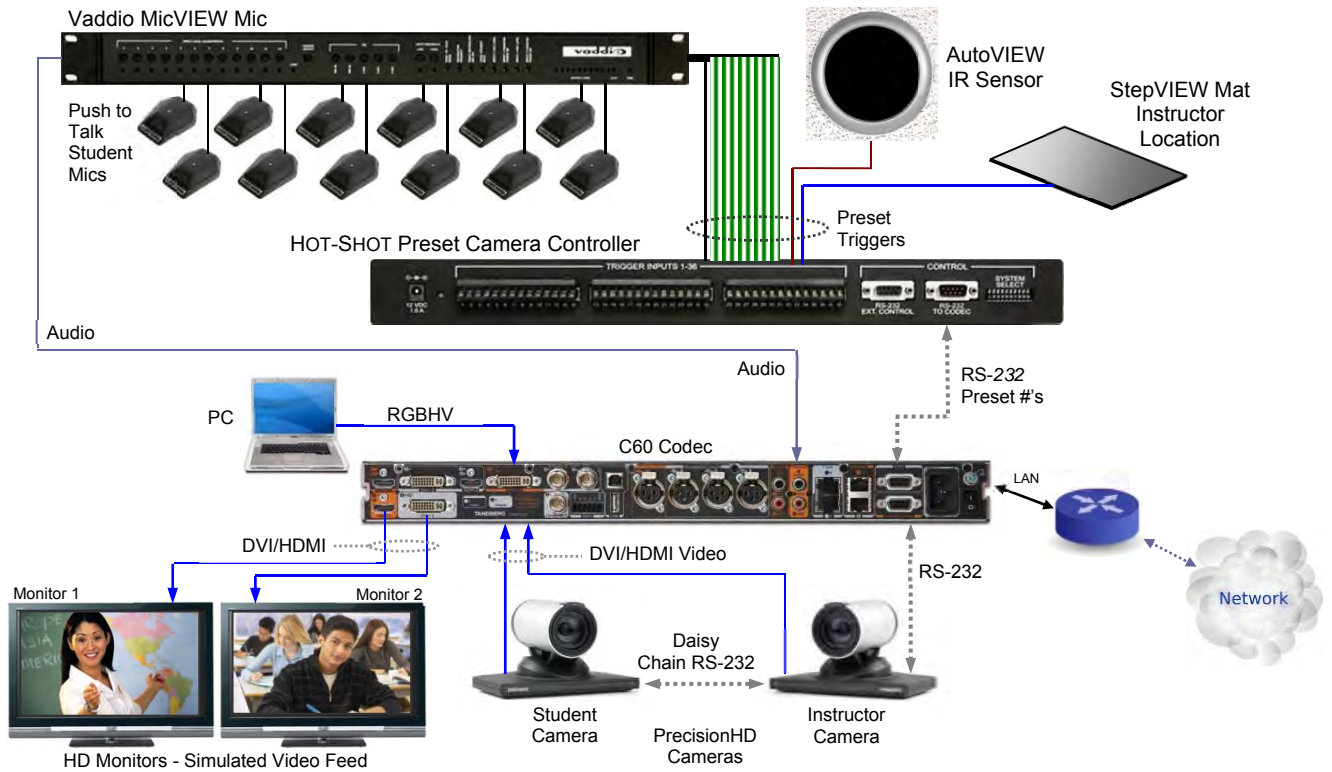


Diagram - Advanced Connectivity: Three (3) Hot-Shots, Six (6) MicVIEWs, PresenterPOD, AutoVIEW IR Sensor, StepVIEW Mat w/Polycom Codec and External Control System

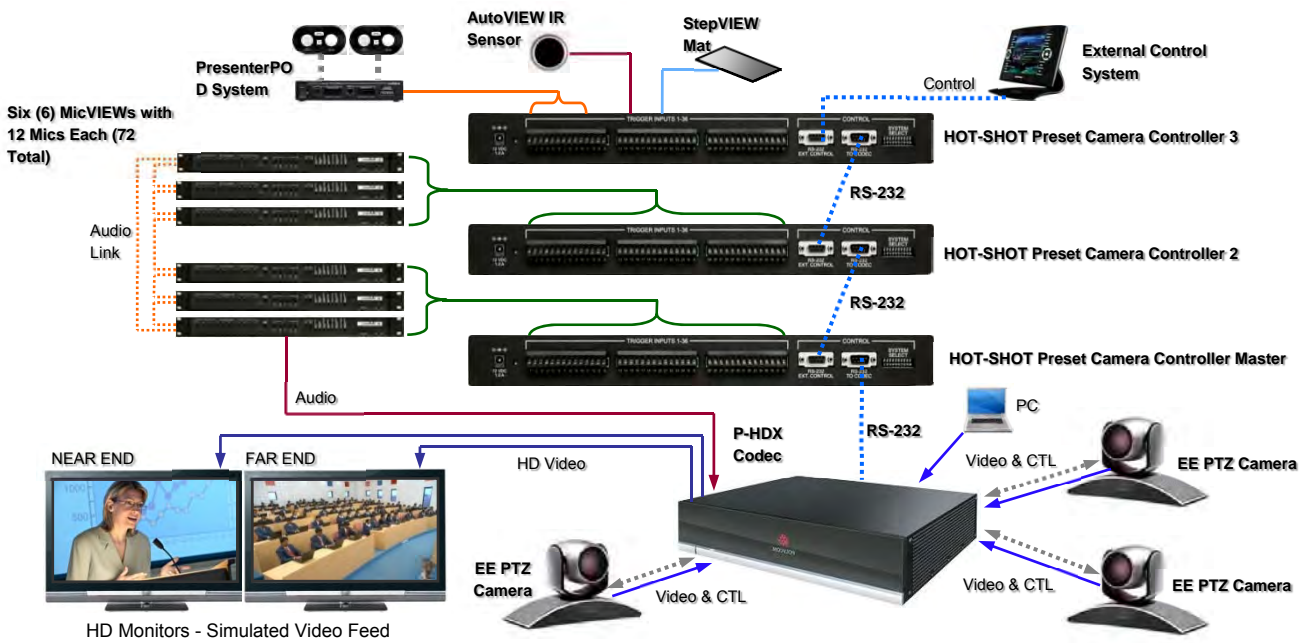
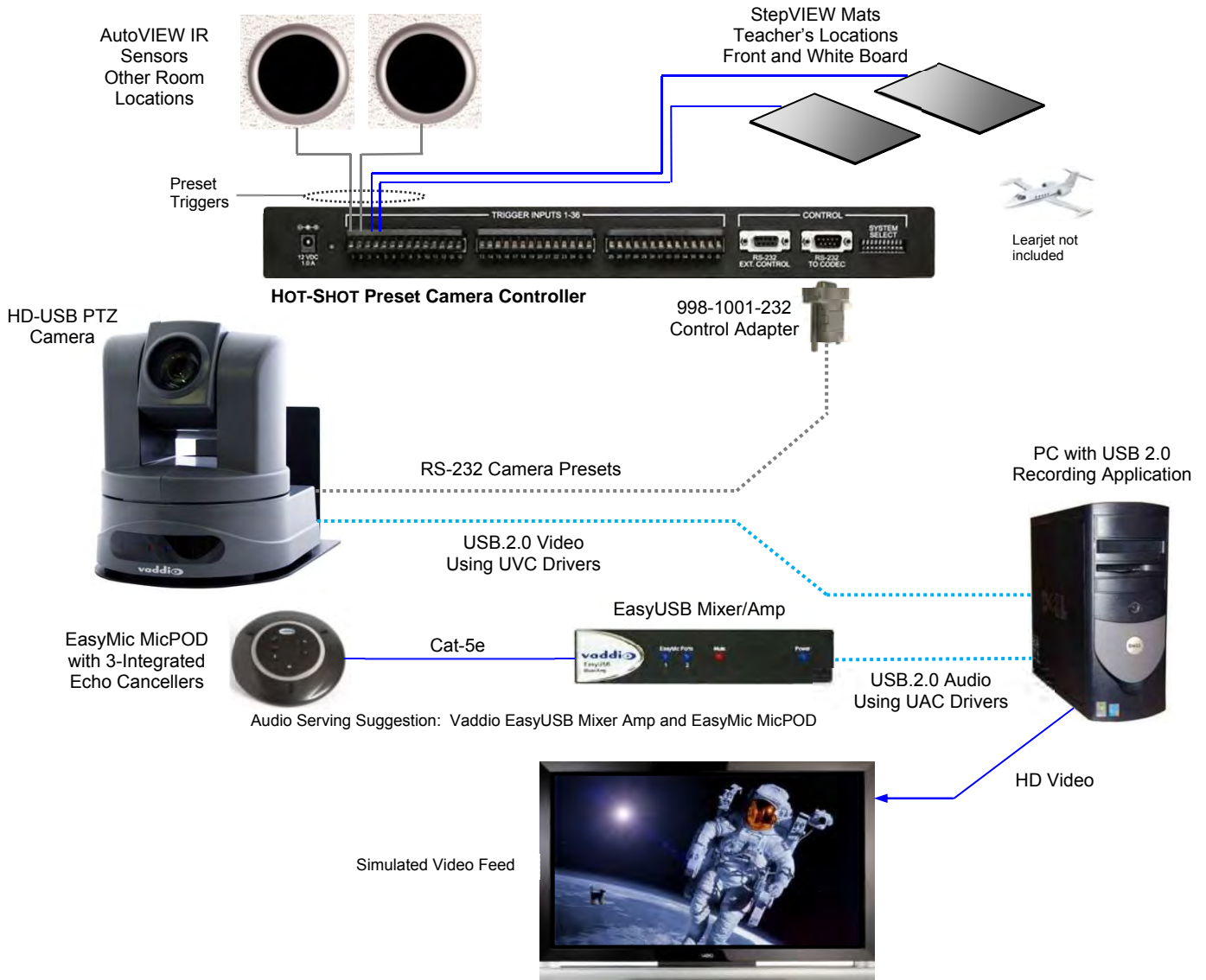


Diagram - New Application - Single Camera System: Hot-Shot and Vaddio HD-USB PTZ Camera, AutoVIEW IR Sensor, StepVIEW Mats



Setting Up the Hot-Shot Preset Camera Controller

The Dip Switches:

There are ten (10) dip switches on the rear panel that configure the Hot-Shot Preset Camera Controller. Configuration is not automatic, but it is easy to understand. The dip switches control the following functions:

- Dip Switches 1 through 5: Assigns the RS-232 output preset codes
- Dip Switch 6: Not used - for future features
- Dip Switch 7: Assigns the trigger processing order (Last Step or First Step)
- Dip Switch 8: Assigns Preset #1 to Default Idle Return (returns to preset #1 with no trigger)
- Dip Switch 9 and 10: Sets the Hot-Shot Address and Master/Slave configuration when cascaded



Table - Dip Switch Assignments: The following table identifies the dip switch settings in detail. Set these switches according to the application requirements of the installation.

Function / Dip Switch	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10
Vaddio Default ASCII	Up	Up	Up	Up	-	-	-	-	-	-
Polycom Codecs	Down	Up	Up	Up	-	-	-	-	-	-
TANDBERG C-Series Codecs	Up	Down	Up	Up	-	-	-	-	-	-
TANDBERG MXP Codecs	Up	Up	Down	Up	-	-	-	-	-	-
LifeSize Codecs	Up	Up	Up	Down	-	-	-	-	-	-
Vaddio PTZ Camera Programming Mode	Down	-	-	-	Down	-	-	Down	-	-
Vaddio PTZ Cameras Preset Playback Mode	Up	Up	Up	Up	Down	-	-	-	-	-
Trigger Last Step	-	-	-	-	-	-	Up	-	-	-
Trigger First Step	-	-	-	-	-	-	Down	-	-	-
Default Idle Return to Preset 1 (Preset 0 on Polycom and TANDBERG Codecs)	-	-	-	-	-	-	-	Up	-	-
Default Idle Return Off	-	-	-	-	-	-	-	Down	-	-
Hot-Shot Address Master 0	-	-	-	-	-	-	-	-	Up	Up
Hot-Shot Address Slave 1	-	-	-	-	-	-	-	-	Up	Down
Hot-Shot Address Slave 3	-	-	-	-	-	-	-	-	Down	Up
Hot-Shot Address Slave 4	-	-	-	-	-	-	-	-	Down	Down

Notes:

- 1) The Vaddio PTZ Camera Programming mode is used to program Presets 7 through 16 on the Vaddio PTZ Camera.
- 2) The Vaddio PTZ Camera Playback mode is turned on to trigger the stored presets inside the camera. Dip Switch 5 must be down in both Programming and Playback modes.

Control Protocols and Strings:

When a preset number is triggered, for example Preset # 2*, the ASCII Output Strings are automatically output in the following formats:

- **Vaddio Default ASCII:** Preset 2<cr><lf>
- **Polycom*:** preset near go 3<cr><lf>
- **TANDBERG C-Series:** xcommand preset activate presetid:2<cr><lf>
- **TANDBERG MXP Series*:** presetactivate number:3<cr><lf>
- **LifeSize**:** set camera position -P 2<cr><lf>
- **Vaddio PTZ Cameras (HEX)** 81 01 04 3F 02 01 FF

The **Vaddio** Default ASCII, Vaddio Camera Hex and the TANDBERG C-Series have no offset to the preset numbers.

*For **Polycom** and **TANDBERG MXP** codecs have a Preset "0". Presets on the Hot-Shot are offset by -1 (for example; 1 = 0, 2 = 1, 3 = 2 and so on).

For **LifeSize Codecs: The "0" key, when used as a preset, always moves the selected camera to the default position and cannot be overwritten. There is no offset to the Hot-Shot and LifeSize preset numbers.

Note: All commands are followed by a carriage return <cr> and line feed <lf> except Vaddio Cameras

Physical Connection:

The RS-232 connection between the Hot-Shot and the codec varies from codec to codec depending on the manufacturer. The following RS-232 connections are required for proper operation:

- **Hot-Shot to Polycom Codec:** 9-Pin Female to Female Cable - Null Modem
- **Hot-Shot to TANDBERG Codec:** 9-Pin Female to Male Cable - Straight Through
- **Hot-Shot to Life Size Codec:** 9-Pin Female to Female Cable - Null Modem
- **Hot Shot to Vaddio Cameras:** Control Adapter (998-1001-232) 9-Pin Female to RJ-45F - Cat-5e to RJ-45 of Camera

INSTALLATION Step-by-Step Example with Codec:

This example is a room system using a Cisco C60 codec with two (2) cameras (student camera located in front and the instructor camera in the rear of the room). There are 18 students and 9 tables with two students to a table and each table has a push-to-talk microphone (9 total mics) set to momentary mode. The microphone mixer/switcher is the Vaddio MicVIEW. The instructor has a front of the room lectern which will be a default position and a whiteboard area that will be covered by a Vaddio AutoVIEW IR Sensor. Monitors are at the front of the room. The instructor has a mic at the lectern position that is always on - or - has a wireless lapel mic plugged into MicVIEW Input # 1 which is always on. The equipment is in the lectern or small rack nearby.

Step 1:

Install the videoconferencing system as described by the system manufacturer.

Step 2: With the codec IR remote control, set the preset positions in the codec preset memory reflecting where each preset position is located in the desired order that the triggering is to be activated. In this case the Instructor position is Preset 1 on Camera 2, the IR Sensor near the whiteboard is Preset 2 on Camera 2 and the Students on Presets 3 through 11 using camera 1. The presets are stored in the codec.

Step 3:

Connect the Hot-Shot to the RS-232 Port of the TANDBERG codec, in this case with a Female to Male 9-pin straight through RS-232 cable (PN 998-1002-232). Set the dip switches for the TANDBERG C-Series codec (first four dip switches to Up, Down, Up, Up). Set dip switch 7 to Last Step trigger mode (Up). Set dip switch 8 to enable Default Idle Return to activate Preset 1 (Up) so that if nothing is triggered, then the codec will return to Preset #1 and display the instructor position. Finally, set dip switches 9 and 10 (both Up) to Hot-Shot Address Master 0, since only one Hot-Shot is being used.

Step 4:

Connect the IR Sensor leads (+ to connector 2 and - to GND) to the Hot-Shot. Connect the MicVIEW logic out triggers 3 through 11 to terminals 3 through 11 on the Hot-Shot and the GND wire of the MicVIEW to the GND of the Hot-Shot. Leave Terminal 1 of the Hot-Shot empty since Default Idle Return to Preset 1 is on and is the Instructor on Preset 1 of the codec.

Step 5:

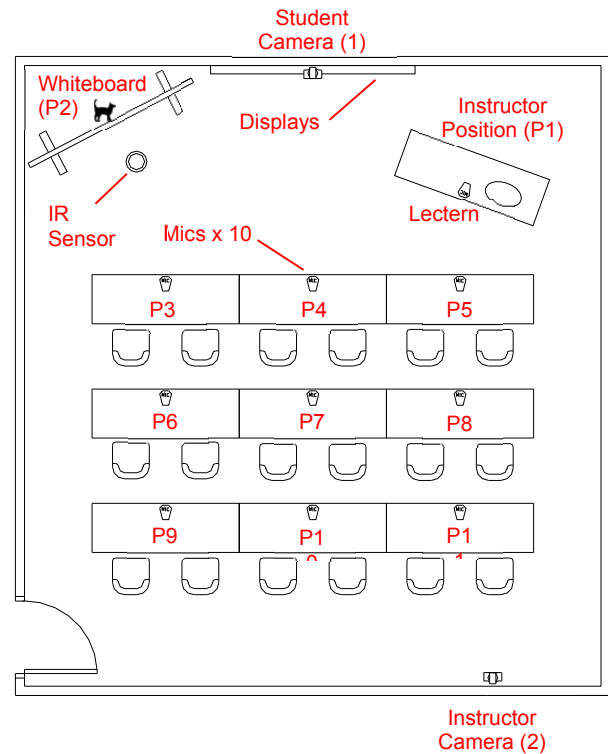
Once all the presets have been saved, and the trigger connections made, then power down the system completely. To reboot the system, turn on the Hot-Shot, and then turn on the codec. The system should be ready for use. Test each trigger and fine tune the camera presets as needed.

Notes:

To use the videoconferencing system without triggers, simply touch the blue LED button on the front panel of the Hot-Shot to disable the triggers/presets. When the Blue LED is off, the preset triggers are disabled.

The camera presets are stored in the codec and can easily be overwritten by users that are unfamiliar with the room automation set-up. Please keep a record of the preset numbers and locations available to quickly reprogram the codec if some of the presets are inadvertently erased or changed.

Basic Hot-Shot Room Example with Codec



INSTALLATION Example with Vaddio PTZ Cameras:

Using the IR Remote Control to Set up to 6 Presets:

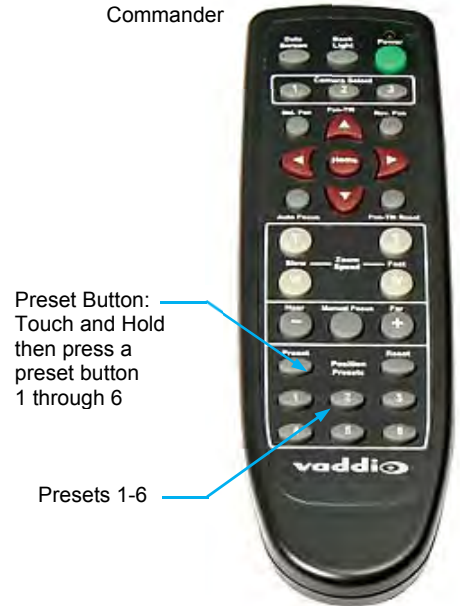
Step 1: Find the Vaddio IR Remote Commander.

Step 2: Set the first 6 presets with the IR remote by moving the camera to the desired location, touch and hold the preset button and while holding the preset button, touch a preset number 1 through 6 to store that preset.

Step 3: After the presets are set, put Dip Switch 5 down. Leave all other dipswitches up for now.

Step 4: If you would like Preset 1 to become the main wide shot of the presets when there is no triggering activity, 1st program Preset 1 to be that shot, and then put Dip Switch 8 down. This is the default Idle Return shot main shot. If no Default Idle Return shot is needed then leave Dip Switch 8 Up.

Vaddio IR Remote Commander



Using the Hot-Shot to program preset 7 through 16 (if more than 6 presets are needed):

Each Vaddio Camera has 16 internal presets. However, only 6 presets can be programmed via IR Remote. To program the rest of the Hot-Shot presets:

Step 1: Put dip switches 1, 5 and 8 down on the Hot-Shot.

Step 2: With the IR Remote, position the camera to the position of the 7th preset.

This is where it gets really gets tough...

Step 3: Now with a piece of wire, stretched out paperclip type device or trigger, touch G (ground) and #7 and release. This will set the 7th Preset. Reposition the camera and touch 8 & G and the 9 & G, and so on...

1st Bank of 12 Presets:
This is the only bank that to work with for a Single Vaddio or VISCA Camera



Wire, Bent Paperclip or trigger device

- Position the camera and touch 7 and G to program the 7th Preset
- Reposition the camera and touch 8 and G for the 8th Preset
- Reposition the camera and touch 9 and G for the 9th Preset
- And so on...



Step 4: After all the presets are set, put dip switch 1 and 8 in the up position, leave dipswitch 5 in the down position. Please take notice that the system will not recall presets unless dipswitch 5 is down and number 1 and 8 are up. If the positions were programmed with a wire or paperclip, hook up the triggers to the programmed presets. There is a convenient NOTES section in the back of this manual to record the trigger types, camera position and presets numbers



Remember, if a Default Idle Return is programmed into Preset 1, then put dip switch 8 down and use it accordingly.

General Specifications:



Hot-Shot Preset Camera Controller	
Part Numbers	999-1036-000 - North America 999-1036-001 - International (with UK and Euro AC Cord Set)
Connectors & Controls Rear Panel	<ul style="list-style-type: none"> • 5.5mm OD and a 2.5mm ID Coaxial Power Connector • 36 Trigger Inputs and six (6) GND Terminals on Phoenix-type connectors • Two (2) RS-232 Ports Male & Female for flexibility in configuration, cascading and control through from a control system for codec control with a touch panel • 10-Position Dip Switch for system assignment and choice of functionality
Controls - Front Panel	Front Panel: Power ON / Preset Enable, (Turn OFF to disable presets)
Compatible Codecs/Controllers/Cameras	<ul style="list-style-type: none"> • Polycom 8000 and 9000 series codecs • LifeSize Room System codecs with RS-232 port • TANDBERG C-Series - C40, C60 and C90 • TANDBERG MXP Series (3000 and 6000) • Any control system that can receive an ASCII control string ending in a carriage return & line feed and then format it to the functionality required by the application and system design. • Vaddio PTZ Cameras: <ul style="list-style-type: none"> • ClearVIEW HD-20 PTZ Camera and all WallVIEW versions based on the HD-20 • ClearVIEW HD-19 PTZ Camera and all WallVIEW versions based on the HD-19 • ClearVIEW HD-18 PTZ Camera and all WallVIEW versions based on the HD-18 • ClearVIEW HD-USB PTZ Camera and all WallVIEW versions based on the HD-USB
Power Supply	12 VDC, 1.0 Amp PowerRite (60/50Hz 110-240V) Switching Power Supply and AC Cord Set Included
Dimensions (H x W x D)	1.72" (43.7mm) H x 18.93" (480.8mm) W x 6.0" (152.4mm) D, 1-RU Rack Height
Weight	2.90 lbs. (1.31541796 kg)
Compatible Vaddio Triggers	MicVIEW, AutoVIEW IR Sensor, StepVIEW Mat, TouchVIEW Buttons, PresenterPOD etc...

Warranty Information (See Vaddio's Warranty Policies posted on vaddio.com for complete details):

Hardware* Warranty: One year limited, non-transferable warranty on all parts. Vaddio warrants this product against defects in materials and workmanship to the original purchaser for a period of one year from the day of purchase from Vaddio. If Vaddio receives notice of such defects during the warranty period, they will, at their option, repair or replace products that prove to be defective.

Exclusions: The above warranty shall not apply to defects resulting from: improper or inadequate maintenance by the customer, customer applied software or interfacing, unauthorized modifications or misuse, operation outside the normal environmental specifications for the product, use of the incorrect power supply, improper extension of the power supply cable or improper site operation and maintenance.

Vaddio Customer Service: Vaddio will test, repair, or replace the product or products without charge if the unit is under warranty and is found to be defective. If the product is out of warranty, Vaddio will test then repair the product or products. The cost of parts and labor charge will be estimated by a technician and confirmed by the customer prior to repair. All components must be returned for testing as a complete unit. Vaddio will not accept responsibility for shipment after it has left the premises.

Vaddio Technical Support: Vaddio technicians will determine and discuss with the customer the criteria for repair costs and/or replacement. Vaddio Technical Support can be contacted through one of the following resources: e-mail support at support@vaddio.com or online at www.vaddio.com.

Return Material Authorization (RMA) Number - Before returning a product for repair or replacement, request an RMA from Vaddio's technical support. Provide a technician with a return phone number, e-mail address, shipping address, and product serial numbers and describe the reason for repairs or returns as well as the date of purchase and proof of purchase. Include your assigned RMA number in all correspondence with Vaddio. Write your assigned RMA number on the outside of the box when returning the product. All returns are subject to a restocking fee without exception (see warranty policies, terms and conditions at vaddio.com).

Voided Warranty: The warranty does not apply if the original serial number has been removed or if the product has been disassembled or damaged through misuse, accident, modifications, or unauthorized repair. Cutting the power supply cable on the secondary side (low voltage side) to extend the power to the device (camera or controller) voids the warranty for that device.

Shipping and Handling: Vaddio will not pay for inbound shipping transportation or insurance charges or accept any responsibility for laws and ordinances from inbound transit. Vaddio will pay for outbound shipping, transportation, and insurance charges for all items under warranty but will not assume responsibility for loss and/or damage by the outbound freight carrier.

If the return shipment appears damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.

Products Not Under Warranty: Payment arrangements are required before outbound shipment for all out of warranty products.

*Vaddio manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry standard practices.

Other General Information:

Care and Cleaning

Do not attempt to take this product apart at any time. There are no user-serviceable components inside.

- Do not spill liquids or liquid type substances onto the device.
- Keep this device away from food or liquid.
- For smears or smudges on the devices, wipe with a clean, soft cloth.
- Do not use any abrasive pads or caustic chemicals at any time on any Vaddio equipment.

Operating and Storage Conditions:

Do not store or operate the device under the following conditions:

- Temperatures above 40°C (104°F) or temperatures below 0°C (32°F)
- High humidity, condensing or wet environments
- In inclement weather or weather chasing truck
- Dusty environments
- In a swimming pool, in a bear cave or in outer space
- Dry environments with an excess of static discharge
- Under severe vibration

Compliance and CE Declaration of Conformity

Compliance testing was performed to the following regulations:

- **FCC Part 15, Subpart B**
- **ICES-003, Issue 4: 2004**
- **EN 55022 A: 2006 + A1: 2007(CISPR 22:2005/A1:2005)**
- **AS/NZS CISPR 22: 2009**
- **VCCI V-3/2010.04**
- **Korean Requirements KN22: KCC Notice Number 2009-27**



Class A
Class A
Class A
Class A
Class A
Class A



FCC Part 15 Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15, Subpart B, of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by Vaddio can affect emission compliance and could void the user's authority to operate this equipment.



ICES-003 Compliance

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.



European Compliance

This product has been evaluated for Electromagnetic Compatibility under the EMC Directive for Emissions and Immunity and meets the requirements for a Class A digital device. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Standard(s) To Which Conformity Is Declared:

EMC Directive 2004/108/EC

EN 55103-2: 1996; E4 - Controlled EMC Environment

- EN 61000-4-2: 1995 + Amendments A1: 1998 + A2: 2001
- EN 61000-4-3: 2006 + A1: 2008
- EN 61000-4-4: 2004 + Corrigendum 2006
- EN 61000-4-5: 2006
- EN 61000-4-6: 2007
- EN 61000-4-8: 2010
- EN 61000-4-11: Second Edition: 2004
- Annex A of EN 55103-2: 1996

Electrostatic Discharge
Radiated Immunity
Electrical Fast Transients
Surge Immunity
Conducted Immunity
Power Frequency Magnetic Field
Voltage Dips, Interrupts and Fluctuations

Korean Requirements:

- EN 61000-4-2 with KCC Notice No. 2009-27
- EN 61000-4-3 with KCC Notice No. 2009-27
- EN 61000-4-4 with KCC Notice No. 2009-27
- EN 61000-4-5 with KCC Notice No. 2009-27
- EN 61000-4-6 with KCC Notice No. 2009-27
- EN 61000-4-8 with KCC Notice No. 2009-27
- EN 61000-4-11 with KCC Notice No. 2009-27

Inside Rear Cover - Blank



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