

CONTROLVIEW™

PAN/TILT/ZOOM CAMERA CONTROL SYSTEMS



- **CONTROLVIEW** is a one or two camera controller for an automated camera control system. The ControlVIEW will work with any VISCA compatible PTZ camera (such as the Sony® EVI Series). The

ControlVIEW Camera Controller controls one or two Pan-Tilt-Zoom (PTZ) camera(s) and positions them to any of 12 user selected preset locations when triggered by an external device. In a two camera operation the camera video source is switched automatically to match the selected camera preset. The ControlVIEW can be controlled by many types of electronic equipment and be programmed differently depending upon the application.

- **CONTROLVIEW IV** Camera Control System is an expanded one to four camera controller with up to 24 camera presets. The ControlVIEW IV package includes two ControlVIEW Camera Controllers modified with an additional daisy-chain I/O port that allows the systems to be linked together. The first controller is the master controller and the second controller is the slave unit. The system also comes with an external automatic video switcher that automatically switches the active controller output.

CONTROL OPTIONS

The following equipment can be integrated and provide camera preset control triggering to the ControlVIEW Camera Controller.

AUDIO/MIXERS

With a ControlVIEW Controller you can interface with any mixer that provides a 5-Volt gate status output. By adding a ControlVIEW Control Expander you can interface with any mixer that has a 0-Volt or 3.3-Volt gate status output.

MicVIEW™

Vaddio's MicVIEW is an automated 12-input microphone switching/mixing system that was designed for distance education and other videoconferencing applications. MicVIEW integrates directly with the ControlVIEW Camera Control by using the optional link cable.

TouchVIEW™

Vaddio's TouchVIEW Wireless Remote Control System provides for individual RF remote control buttons that can be placed on whiteboards, podiums, desktops, etc. so that the presenter can switch to any video preset they desire as they move around the room. Up to 12 remote buttons can be used on a system.

AutoVIEW™

Vaddio's AutoVIEW Remote Control capabilities work just like our TouchVIEW only it provides hands-free operation. The presenter wears a clip-on wireless AutoVIEW transmitter that when detected by an AutoVIEW receiver automatically switches the video preset to the location that the presenter has moved to. The AutoVIEW receivers come in four different detection range setting. Up to 12 receivers can be used in the system. A ControlVIEW control expander must be added to use Vaddio's AutoVIEW.

Polycom® and Tandberg® Video Codecs

Vaddio's ControlVIEW can be integrated with the Polycom Viewstation™ FX and EX models and with the VS4000 by using the RS-232 port. In a Polycom control set-up, the codec stores the preset memory locations (up to ten presets) and allows near/far-end control of two cameras. Tandberg codecs can also be controlled via the RS-232 port. In a Tandberg control configuration, the Tandberg has 15 preset memory locations, 3 are controlled by the Tandberg remote control or by microphones. The other 12 can be controlled by the ControlVIEW Camera Controller.

Control Systems

The Vaddio ControlVIEW can also be integrated with a control system such as Crestron® or AMX® by using the RS-232 control port.

Contact Closure Interface

The preset input interface allows for connection of external devices such as switches, sensors, floormats, etc. The contact must see 5-Volts DC to operate.

PROGRAM FEATURES

• Switching Delay Settings

Both the camera switching delay and the video switching delay can be programmed to select the appropriate delay time before switching to the default position or another camera. The settings are 2.5, 5 and 10 seconds. There is also an OFF position which turns off the default position function.

• Preset Recall ON/OFF

When the preset recall is ON, the system switches to the default camera and user selected preset. When the preset recall is OFF, only the default camera video is selected.

• Default Camera Selector

Selects what camera will be default camera.

• Polycom or Tandberg

Video switcher is disabled because camera switching is done through the video codec.

• Crestron or AMX

The ControlVIEW allows RS-232 control through the external port.

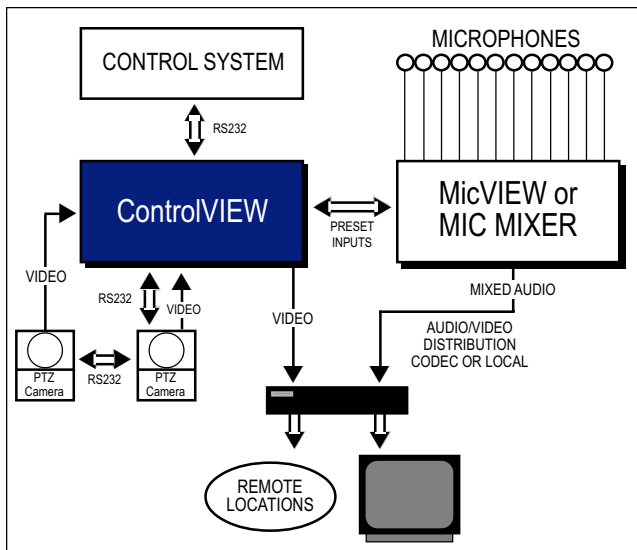


Figure 1 – ControlVIEW setup, audio mixer.

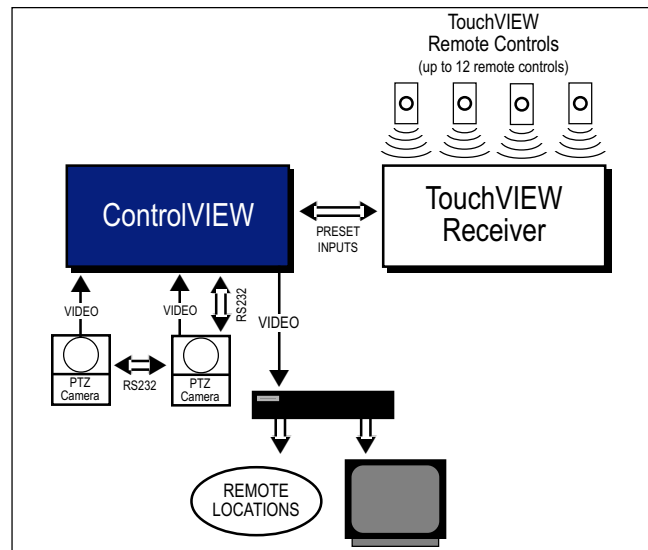


Figure 3 – ControlVIEW setup, TouchVIEW.

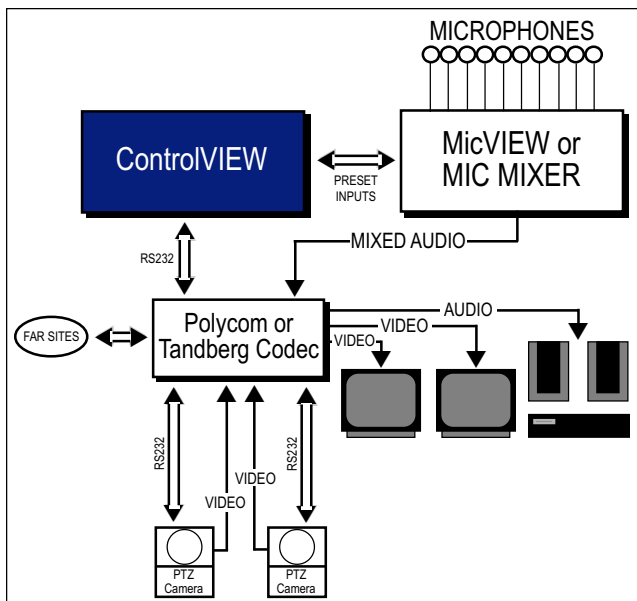


Figure 2 – ControlVIEW setup, Polycom or Tandberg.

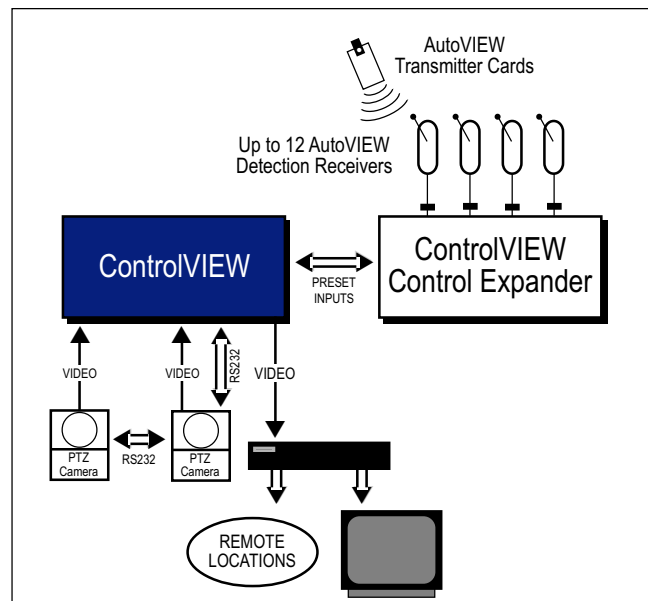


Figure 4 – ControlVIEW setup, AutoVIEW.

APPLICATIONS

Distance Learning

In education applications for videoconferencing, there are many applications in which the professor wants to teach the class in the local environment and have the entire presentation shown via video at a remote location.

The Vaddio ControlVIEW in this application plays the vital role of camera manager so that the professor can teach the course rather than having to control the camera and video system.

The ControlVIEW can be set to view several areas from which the professor likes to present (podium, whiteboard, blackboard, etc.). As the professor presents from each of these areas, the ControlVIEW can automatically adjust the camera in the room to each position to ensure that the entire presentation by the professor is sent over the videoconference.

As in any classroom, students will be asking questions throughout the professor's presentation. As students ask their questions, the ControlVIEW, when used with a MicVIEW or audio mixer, can redirect the camera to view the student as they are speaking and then return to viewing the professor as he/she responds. All of this is possible with the ControlVIEW without ever requiring the professor to control the system. All the participants are seen and heard.

Conference Room

In cases where conference rooms are being designed both to optimize meetings and/or have video-conference sessions, the Vaddio ControlVIEW can play a crucial role.

In this application, the room could be designed with a microphone placed at each participants chair. When they speak, the microphone triggers the ControlVIEW to recall that position so that the person is seen and heard over the conference. The system can then be set to return the camera to the chairperson of the conference, or it can move to the next person.

Church

In many churches, there are sound reinforcement systems which provide high quality audio from the altar, music or choir sections of the building. The next step in church presentation is automating a camera system to track the priest or minister during services to show the image up on a large screen in front or to broadcast the service internally to the overflow areas or childrens rooms. The Vaddio ControlVIEW system can manage multiple cameras to track the presenters motions around the altar as he or she speaks. This eliminates the need for a person to work behind a video camera to maintain video throughout the service. The ControlVIEW can be integrated with a wide range of audio mixer systems for use in applications such as church presentations.

City Council Meetings

The ControlVIEW by Vaddio can provide a key service in applications for city council meetings. Typically, meetings will consist of several council members, the mayor and often, a forum for citizens to listen and ask questions. These meetings are traditionally recorded for record purposes as well as for broadcast on local cable TV channels.

In lieu of hiring a camera person to position the TV camera on each person as they speak, the ControlVIEW can adjust the camera(s) to each speaker as they present and feed the audio from their microphone into the broadcast. Then, during the question and answer forum from the citizens, the ControlVIEW will automatically show the citizen as they ask the question while simultaneously sending their audio through the broadcast.

This automation of the camera and audio process provides a much smoother run meeting which is easily managed from a production standpoint.

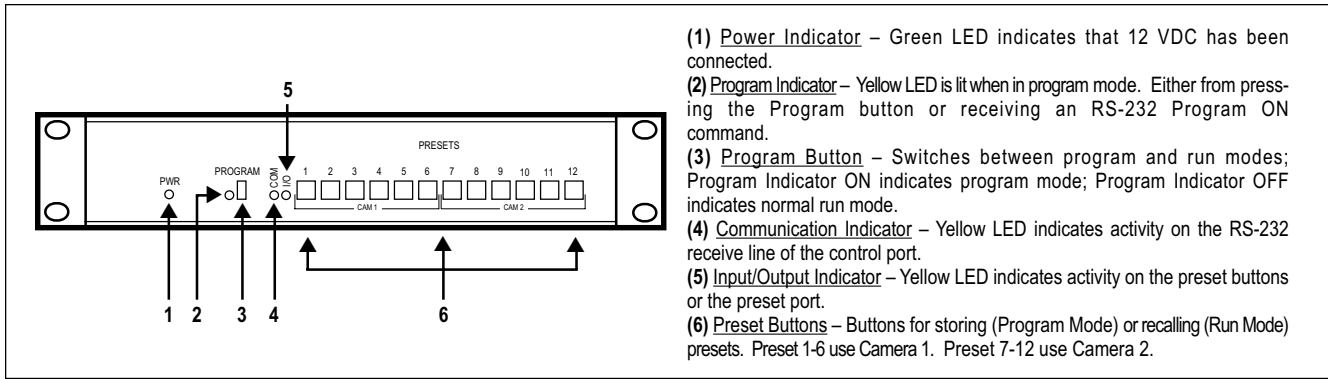


Figure 5 – ControlVIEW front panel functions.

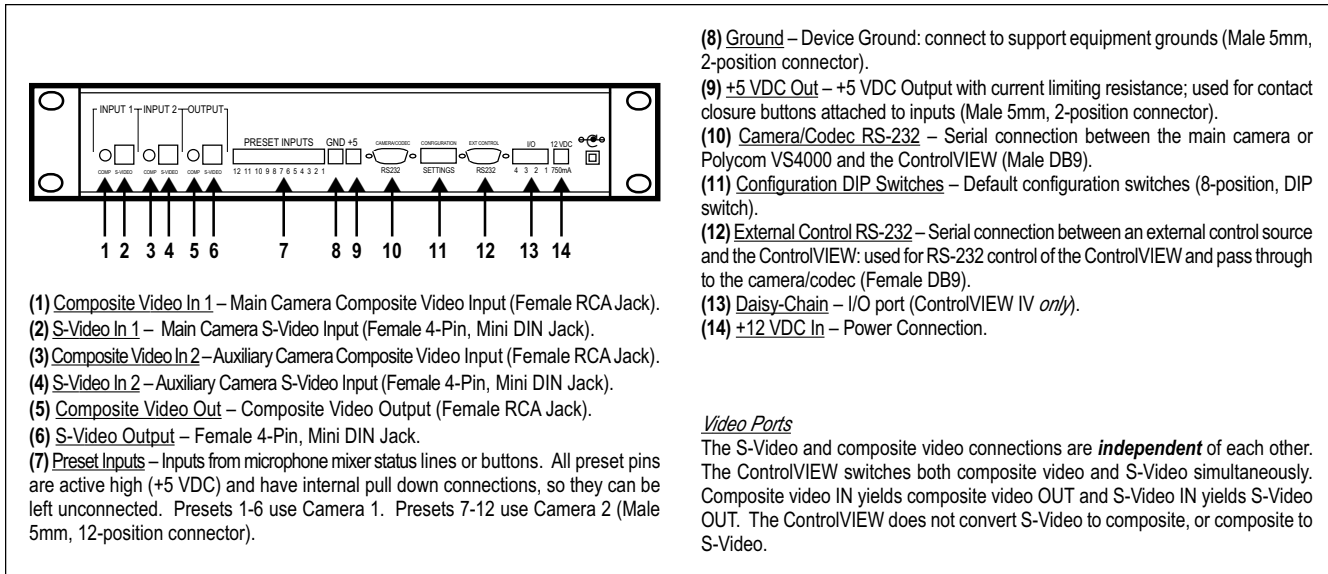


Figure 6 – ControlVIEW back panel functions.

TECHNICAL SPECIFICATIONS

Serial Communication	Data Rate: 9600, 8N1 Pass-through, Control and Data
Video Input	S-Video and Composite
Video Output	S-Video and Composite
Switcher Input Controller	– 12-Pin, 5mm Connector (12 presets, one video switcher) – 2-Pin, 5mm Connector (ground) – 2-Pin, 5mm Connector (+5 VDC) – 4-Pin, 5mm Connector
Weight	3.54lbs/1.6kg
Dimensions	
Depth	6 1/4"/15.9cm
Width	16 3/4"/42.6cm
Height	1 3/4"/4.45cm
Power Supply	12 VDC, 750mA

INCLUDED ACCESSORIES

- Rack mount ears
- Power supply



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