

**Use as a Stand-Alone Module or with Controls That Support
4204 Relay Module Connection Via Keypad (ECP) Bus**

INSTALLATION AND SETUP GUIDE

ABOUT VISTAVIEW-100

The VistaView-100 module is a CCTV switcher that accepts 4 video inputs, switching them to 2 video outputs. The VistaView-100 module features:

- 4 video inputs compatible with any standard 75-ohm, line-locked, black and white or color video camera
- 2 video outputs compatible with any standard 75-ohm video monitor or recorder
- A form-C trigger relay output that may be used to start/stop recording, or to change from time lapse to real time recording
- An open collector video loss output that indicates when video signals are no longer present on one or more video inputs.

Modes of Operation

Normal Sequencing Mode — automatically sequences installer selected video inputs to the outputs using a common installer selected dwell time. This allows cameras assigned to a given output to be continuously monitored using a video monitor and/or continuously recorded using a recorder set for time lapse recording. A control panel is not required for operation in this mode.

Panel Trigger Mode — switches a specific video input to the OUTPUT1 line on a momentary basis using a separate installer selected dwell time, or on a latched basis as directed by commands received from a control panel. A control panel that supports the 4204 relay module is required in this mode. In this mode VistaView-100:

- Receives commands via the control's ECP bus
- Responds to the same commands that the control uses to activate the relays on the 4204 relay module
- Allows one specific camera to be monitored by a video monitor and/or recorded by a recorder set for real time recording when an installer defined event occurs such as an alarm or trouble condition on a selected control panel zone.

HOW TO INSTALL THE VISTAVIEW-100

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VistaView-100 should be installed by a qualified service person and its installation should conform to all local codes.

The VistaView-100 is supplied in a plastic case that may be wall mounted or placed on a shelf. To mount the case on a wall:

1. Insert two supplied self-tapping screws into the wall with a 3-1/4-inch horizontal separation. The screw

heads should project approximately 1/8-inch from the wall.

2. Remove the VistaView-100 PCB from the case and position the slotted holes on the case back onto the screw heads with the holes for the BNC video connectors facing down.
3. On the inside of the case, remove the plastic strip covering the remaining unused slotted hole and insert a screw into this hole to lock the case in position. After tightening, make sure screw head is flush with case back to avoid contact with the PCB.
4. Replace the VistaView-100 PCB into the case.

HOW TO CONNECT THE VISTAVIEW-100

When VistaView-100 is used with control panels that have earth ground fault detection, a ground fault indication will occur when video monitors, recorders, or cameras are connected to the VistaView-100 that tie the shell of their video BNC connector to earth ground via their power cord or mounting bracket.

Standalone UL Installations: VistaView-100 is listed as a standalone unit for CCTV UL2044 applications.

Panel triggered UL Installations: VistaView-100 may be connected as a supplemental device to listed fire and/or burglar alarm control panels that support the 4204 relay module except as noted below.

- In UL installations, VistaView-100 may be connected to panels that have ground fault detection only if the local authority having jurisdiction allows the ground fault detection feature to be disabled.
- In non-UL installations requiring ground fault detection, when possible, use cameras powered by a power source such as a plug-in transformer that is not earth grounded and isolate the camera's mounting brackets from earth ground. Connect a video ground loop isolation device such as Vicon's V235GLTA Ground Loop Transformer to the coaxial cable that runs between VistaView-100 and the video monitor or recorder (or camera if required) causing the ground fault. Video ground loop isolation devices are not UL listed and may not be used in UL installations.

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BNC Connectors

Use for video input and output connections to video cameras, monitors, and recorders with 75-ohm coaxial cable. Depending on the devices used, the maximum cable length running from a camera, through VistaView-100, to a

monitor or recorder is typically 500 to 1000 feet when high quality, low distortion coaxial cable such as RG59B/U is used. Consult the instructions provided with these devices for cable length limitations.

Screw Terminals

Use for power source, ECP bus, trigger relay, and video loss output connections.

- Run wires from VistaView-100's power input and ground screw terminals to a 12VDC-power source (such as the control's auxiliary power output or supplemental 12VDC-power supply).
- If panel trigger mode will be used, run wires from VistaView-100's Data In/Out screw terminals to the corresponding ECP bus terminals on the control.
- If video loss is to be annunciated by the control, the video loss output must be connected to a zone on the control having a grounded return. Connect one side of the zone's EOLR to the control's zone + (or zone Hi) input. Connect the other side of the EOLR to the VistaView-100's video loss output. Program the zone for 24-hour trouble (or equivalent) response.
- When powered from a source other than the control (if using either panel-triggered mode or video-loss feature), run a wire from VistaView-100 ground screw terminal to a ground terminal on the control so that both devices share a common ground reference.

HOW TO PROGRAM THE VISTAVIEW-100

Normal Sequencing Mode

1. Set DIP switches (OUT1 and OUT2) to assign desired video inputs to OUTPUT1 and OUTPUT2, respectively.



Switches 1-4 on each DIP switch enable INPUT1-INPUT4 on the corresponding DIP switch output. For example, turn on switch #3 on the DIP switch OUT1 to enable INPUT3 on OUTPUT1 and so on.

2. Adjust the NSD trimpot to select desired normal sequencing dwell time (1 to 30 seconds).

Panel Trigger Mode

1. Set ECP DIP switch to the address that will be used by the control to communicate with the VistaView-100. (Refer to the instructions provided with the control when selecting this address.) The table below shows the DIP switch settings for each of the 16 possible addresses that can be selected. Be sure to choose an address that is different from the addresses of all other devices, including other VistaView-100 modules, which are connected to the control's ECP bus.
2. On some controls, it is necessary to program the selected address into the control and to assign an output device type (i.e.: type 4) to this address using the applicable control programming menu.

3. Program the events that will trigger relay numbers 1 through 4 (corresponding to INPUT1 through INPUT4) along with the start and stop options for these relays into the control using the applicable control programming menu. Video inputs should either be assigned an "Activate for 2 seconds" start option (this option does not require a stop option to be programmed) or an "Activate Steady Until Stopped" start option (this option requires a stop option to be programmed).
4. If the "Activate for 2 Seconds" start option is used, adjust the PTD trimpot to select the desired panel trigger dwell time (2-60 seconds).

VISTAVIEW-100 OPERATION

- When power is applied, VistaView-100 enters normal sequencing mode where it automatically sequences through the video inputs selected for each output. The trigger relay remains inactive in this mode.
- When a command to activate a relay for 2 seconds is received, the corresponding video input is switched to OUTPUT1 for the dwell time set by the PTD trimpot.
- When a command to activate a relay steady is received, VistaView-100 switches the corresponding video input to OUTPUT1 until it receives another command to deactivate the relay.
- When a command to activate a second, third, or fourth relay is received before a previously switched input has been deactivated, it automatically sequences between all activated inputs using a fixed 1-second dwell time.
- VistaView-100 activates the trigger relay when one or more inputs are switched to OUTPUT1 and deactivates this relay when all inputs have been deactivated.

SPECIFICATIONS

Dimensions	6-7/16 W x 4-3/4" H x 1-1/4" D
Input Voltage:	12VDC nominal, 9.6-14VDC operating range.
Current:	72mA
Video Inputs:	75-ohm termination, compatible with black and white or color composite video signals, BNC connections.
Video Outputs:	75-ohm termination, AC coupled, unity gain, BNC connections.
Trigger Relay:	Form-C contacts rated 1A at 24VAC/ VDC.
Video Loss Output:	0.7 V through 300 ohms when video is present on all enabled inputs and open collector when video is lost (i.e., no sync) on one or more enabled inputs, or module has no power.
Agency Listings:	UL2044

DIP Switch Position	VistaView-100 Address Settings															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off	On	Off
2	On	On	Off	Off	On	On	Off	Off	On	On	Off	Off	On	On	Off	Off
3	On	On	On	On	Off	Off	Off	Off	On	On	On	On	Off	Off	Off	Off
4	On	On	On	On	On	On	On	On	Off	Off	Off	Off	Off	Off	Off	Off

ADEMCO LIMITED WARRANTY

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“FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 15 STATEMENT”

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the receiver away from the control/communicator.
- Move the antenna leads away from any wire runs to the control/communicator.
- Plug the control/communicator into a different outlet so that it and the receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

The user or installer may find the following booklet prepared by the Federal Communications Commission helpful: "Interference Handbook"

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402.

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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