Camera and Electronic Products for Integrators

PRODUCTIONVIEW™ SUPER JOYSTICK

Integration Joystick with Six Discrete Camera Control Ports, On-board Camera Presets, LCD Preview Monitor and External Control Capability

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Overview:

The Vaddio™ ProductionVIEW Super Joystick is a unique integration joystick contoller that is based on the ProductionVIEW series of camera controllers. The Super Joystick has six individual RS-232C camera control ports for direct control of PTZ cameras which eliminates the need for daisy chain control cabling. The camera control ports are on RJ-45 connectors which easily connect to the Vaddio EZCamera™ cabling packages using a Cat. 5 wiring standard.

Figure 1: ProductionVIEW Super Joystick

Each of the six camera control ports will auto-configure based on the robotic PTZ camera system connected to that port upon boot up. Whether it is a Vaddio, Sony® or Canon® PTZ camera system the ProductionVIEW Super Joystick senses the cameras and provides for seamless control of the camera functions. Each of the six cameras attached has been supplied with 12 internally stored camera presets effectively removing the internal preset limitations of the camera. Each of the six cameras attached can also be adjusted individually for the operating environment with adjustments for auto/manual focus, auto/manual brightness, backlight compensation and one push automatic white balance.

The ProductionVIEW Super Joystick has two rows of six external control switches which can be used in a variety of ways. These switches are tied to trigger outputs and can be used to control external video switchers with contact closures or tally lights for studio applications. The Super Joystick also has provision for external control of select HD switchers/mixers with built-in RS-232 codes in the system menu. And like the ProductionVIEW FX, the ProductionVIEW Super Joystick console has a 4" LCD preview monitor is built-in. Overall, the ProductionVIEW Super Joystick is a unique and advanced camera controller that is unmatched in today's market for functionality, convenience and value.

Intended Use:

Before operating the Vaddio ProductionVIEW Super Joystick, please read the entire manual thoroughly. The system was designed, built and tested for use indoors, and with the provided power supply and cabling. 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 Vaddio ProductionVIEW Super Joystick. If these instructions are misplaced, Vaddio keeps copies of Specifications, Installation and User Guides and most pertinent product drawings for the Vaddio product line 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 power supply provided with the ProductionVIEW system. Use of any unauthorized power supply will void any and all warranties.**

UNPACKING:

Carefully unpack and identify the following parts from the packaging.

- One (1) ProductionVIEW Super Joystick Camera Control Console
- One (1) Vaddio PowerRite 18 VDC, 2.75A Power Supply
- One (1) Vaddio AC Cord Set
- Documentation and Manuals

Key Technical Features:

- **Camera Auto-Sensing** - The ProductionVIEW Super Joystick is capable of identifying through auto-sensing of each camera attached. Control codes for the following cameras are built-in:
  - Vaddio WallVIEW™ Series Cameras* based on the following PTZ Camera Platforms:
    - Vaddio HD-18, Canon VC-C50i& VC-C50iR, Sony EVI-HD1, EVI-D30, EVI-D100 & EVI-D70, BRC-300, BRC-H700, BRC-Z700
  - Vaddio CeilingVIEW™ 70 PTZ Series Cameras*
  - Vaddio HideAway Series Cameras*
  - Vaddio Model Series and PTZCam Series Cameras*
  - Vaddio Add-A-Cam™ PRO Series Camera Systems*
  - Sony EVI-HD1, EVI-D30, EVI-D100 & EVI-D70, BRC-300, BRC-H700, BRC-Z700*
  - Canon VC-C50i & VC-C50iR*

*IMPORTANT NOTE: Specifications are subject to change. There are a small number of commands on the ProductionVIEW Super Joystick that will not operate with certain camera platforms. For a list of control exceptions, please contact Vaddio Technical Support.

- **Control of External Video Switchers or other Control Devices**
  - **Built-in RS-232 Codes**
  The ProductionVIEW Super Joystick has RS-232 codes built-in to the console to control the Edirol® V-44SW, Extron® ISS-506 and the Analog Way® Eventix EVX8022 video switchers. Switcher selection, configuration and transition times are handled through the Menu System.
    - The Extron ISS-506 is a 6x2 seamless switcher that lines up well with the 6x2 external control switches on the front panel.
    - The Edirol is an 8-channel switcher/mixer (4 SD video and 4 HD video) and can be configured for control of 6 of the 8 channels in the following combinations; 3-SD & 3-HD, 4-SD & 2-HD or 4-HD & 2SD.
    - The Analog Way Eventix EVX8022 is an 8x2 switcher/mixer. The Super Joystick switches only the first six inputs, effectively using it as a 6x2 configuration.
  Currently only these switchers are supported for RS-232 control. Other switchers may be added in future firmware releases.
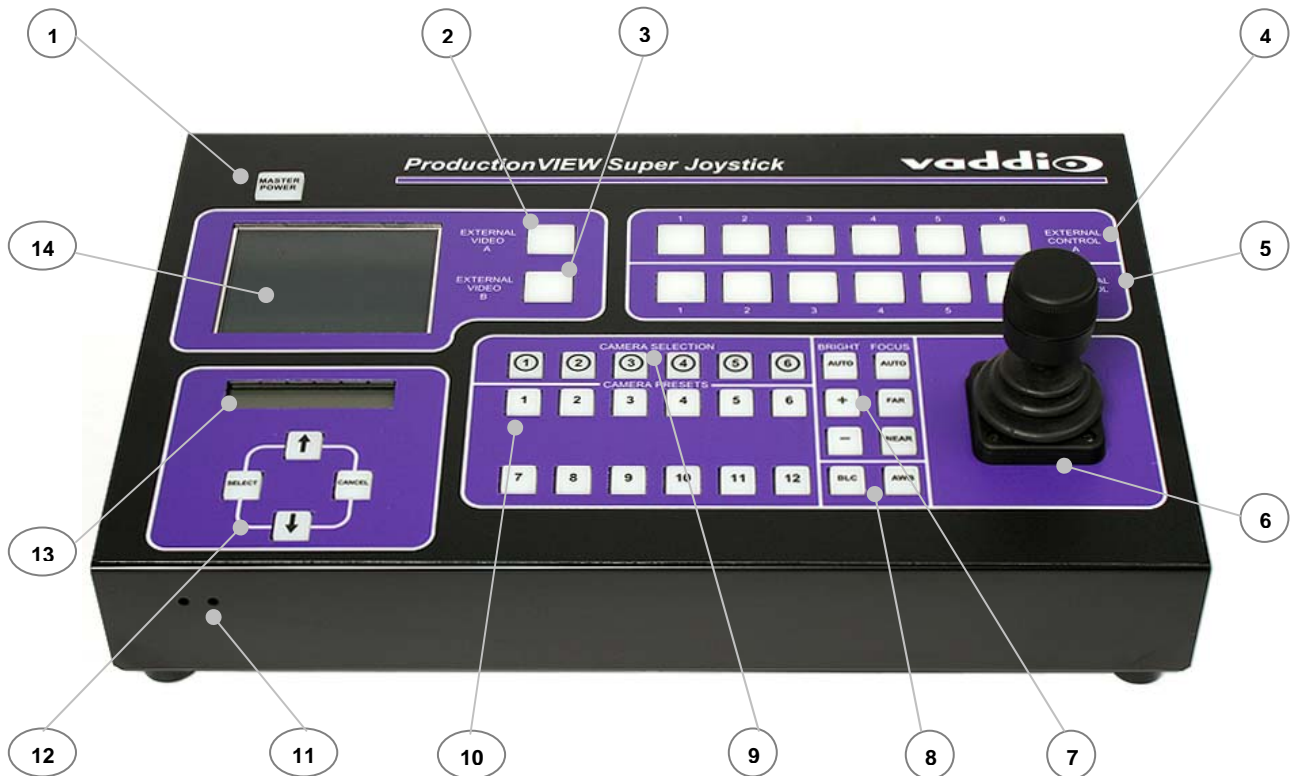 - **External Triggers/Tally Contacts**
  The ProductionVIEW Super Joystick has 2 rows of 6 external control buttons on the front panel which directly correspond to the External Triggers/Tally Contacts on the rear panel. With these contact closures, video switchers such as the Extron SW series switchers can be controlled from the front panel buttons of the Super Joystick. These triggers can be configured as active high or active low. The contacts are latching, TTL type and are not relays and no voltage should be applied to these triggers at any time.
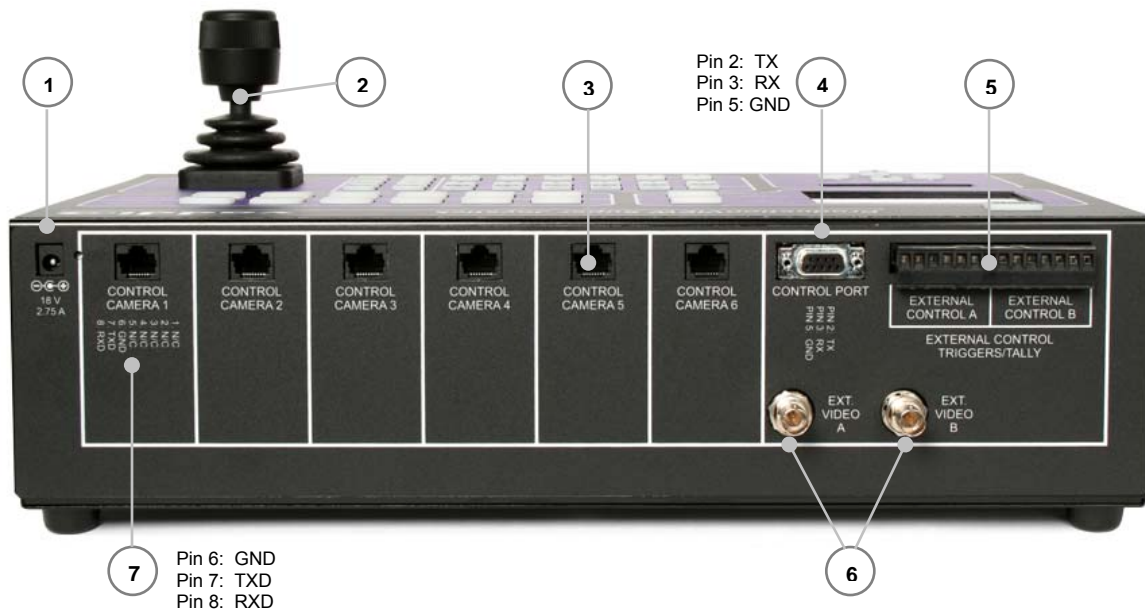 - **Reporting RS-232 Button Pushes**
  The button pushes on the front panel can also be reported to the RS-232 port allowing for use with an external control system to translate the RS-232 out of the ProductionVIEW Super Joystick to any other RS-232 controllable device available.
- **3-Axis Hall-Effect Joystick** - High quality Hall-Effect joystick allows for control of Pan/Tilt (X/Y coordinates) and the Zoom function (twist for Z or zoom axis). This non-contacting joystick uses industrial quality magnets and sensors, providing solid, consistent performance throughout its entire lifetime.
- Camera Control - Each camera input has individual control for Pan/Tilt/Zoom and auto/manual focus, auto/manual brightness, backlight compensation and one-push automatic white balance.
- **72 Total Camera Presets - Dual Mode** - Twelve presets per camera input channel are stored internally and are not dependent on the internal presets of the camera. There are two modes for camera preset storage in the ProductionVIEW consoles. All twelve (12) presets can be stored internally, or six can be stored in the camera (1 through 6) and six stored internally (7 through 12). Storing presets in the cameras allows for quicker switching since position feedback is not needed.
- **Speed Switching Modes** - The Super Joystick can be set so the External Control A or the External Control B buttons can be tied to the Camera Selection buttons. For example, in Select follows External A mode (Sel Follow Ext A), the Camera Selection buttons follow the External A button pushes which transfers full camera control to that camera selected by the A bus buttons.

ProductionVIEW Super Joystick Front Panel Controls (Figure 2):

1) **MASTER POWER** (system on/off)
2) **EXTERNAL VIDEO A**
   - Selector Switch assigns External Video Input A to the Built-in 4" LCD Monitor
3) **EXTERNAL VIDEO B**
   - Selector Switch assigns External Video Input B to the Built-in 4" LCD Monitor
4) **EXTERNAL CONTROL A**
   - For controlling external devices via tally contacts (contact closure) or RS-232
5) **EXTERNAL CONTROL B**
   - For controlling external devices via tally contacts (contact closure) or RS-232
6) **HALL EFFECT JOYSTICK**
   - Pan (left, right), Tilt (up, down), Zoom (twist +, -) Camera Control
7) **CAMERA CONTROLS**
   - Brightness (+, -) and Focus (Far, Near) controls
8) **CAMERA CONTROLS**
   - BLC – Back Light Compensation and AWB – Automatic White Balance
9) **CAMERA SELECTION**
   - Selects camera to be controlled by the Joystick and camera controls (brightness, focus, etc.)
10) **CAMERA PRESETS**
    - Twelve (12) camera presets per camera can be saved under the Camera Preset switches
    - In "6InCam 6Local", Presets 1 - 6 are stored in the cameras & 7 - 12 are stored internally
11) **LCD DISPLAY CONTROLS** (recessed mini screw driver adjustments on front edge)
    - Left Adjustment - Color Saturation (up, down), Right Adjustment - Brightness (up, down)
12) **MENU CONTROLS**
    - Select, up, down and Cancel used to navigate menu system (see pages 9 & 10)
13) **LCD Display for Menu Control**
    - See Appendix 1 for detailed description
14) **4" LCD PREVIEW MONITOR**
    - Select between EXTERNAL VIDEO A and EXTERNAL VIDEO B inputs

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ProductionVIEW Super Joystick Back Panel I/O and Controls (Figure 3):

Pin 2: TX
Pin 3: RX
Pin 5: GND

Pin 6: GND
Pin 7: TXD
Pin 8: RXD

1) **POWER INPUT**
   - Use only the 18 VDC, 2.75A power supply provided with the ProductionVIEW Super Joystick. Use of any other power supply may cause damage to the ProductionVIEW and to the products attached.
   - Connector 5.5mm OD, 2.5mm ID, positive center
2) **3-AXIS HALL-EFFECT JOYSTICK**
   - Pan/Tilt/Zoom Control, Side view - shown with rubber boot.
3) **CAMERA CONTROL PORTS on RJ-45 connectors**
   - One camera control port per camera (no daisy-chaining required)
4) **RS-232 CONTROL PORT**
   - DB-9 for RS-232 control of internal functions (Pin 2 = TX, Pin 3 = RX, Pin 5 = GND) for use with external controllers or external production switchers
5) **EXTERNAL CONTROL TRIGGERS/TALLYS**
   - For use with tally lights or external devices (i.e. video switchers or control systems). These external control contacts correspond directly to front panel EXTERNAL CONTROL A (1 through 6) and EXTERNAL CONTROL B (1 through 6) switches on the front panel.
   - External Control Triggers/Tally contacts are latching, TTL type. These triggers are not relays and no voltage should be applied to these triggers at any time. The triggers are configurable as Active High or Active Low.
6) **EXTERNAL VIDEO INPUTS (A & B)**
   - Composite video inputs on BNC connectors, 1 V p-p, and 75Ω for display on built-in 4" preview monitor.
7) **RJ-45 Pin–outs**
   - Pin-out reference for RS-232 control over Cat-5 (Cat. 5e) cabling
     - Pin 6: GND
     - Pin 7: TXD
     - Pin 8: RXD

First Time Set-up with the ProductionVIEW Super Joystick:
ProductionVIEW Super Joystick was designed to be exceptionally easy to use and operate right out of the box. The controls are intuitive and logical and the pin-outs are printed on the back panel.

Getting Started:
To start using the ProductionVIEW Super Joystick, connect the RS-232 Camera Control Ports on the Super Joystick to the RS-232 inputs on the cameras, turn on the cameras and let them home, then turn on the Super Joystick. The Super Joystick will scan each of the cameras connected and automatically load the appropriate RS-232 codes for control of each camera. Any mix of up to six (6) compatible camera systems can be used concurrently on the system (see Figures 4 and 5). In all cases, video would be routed to an external switcher/mixer.

Figure 4: Basic System Configuration - Standard Definition Video
- Cameras are controlled by the Super Joystick
- Video is handled by an external video switcher
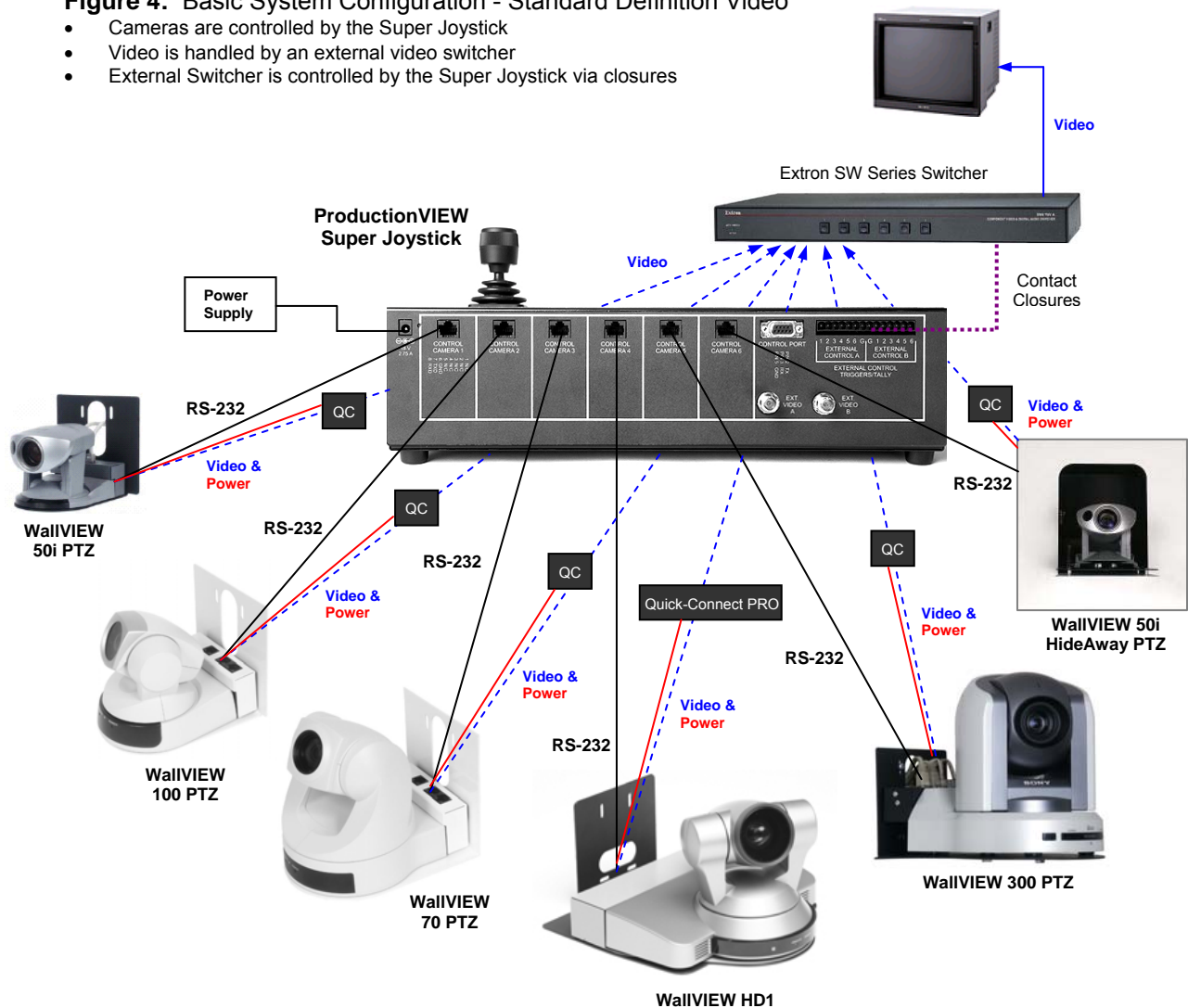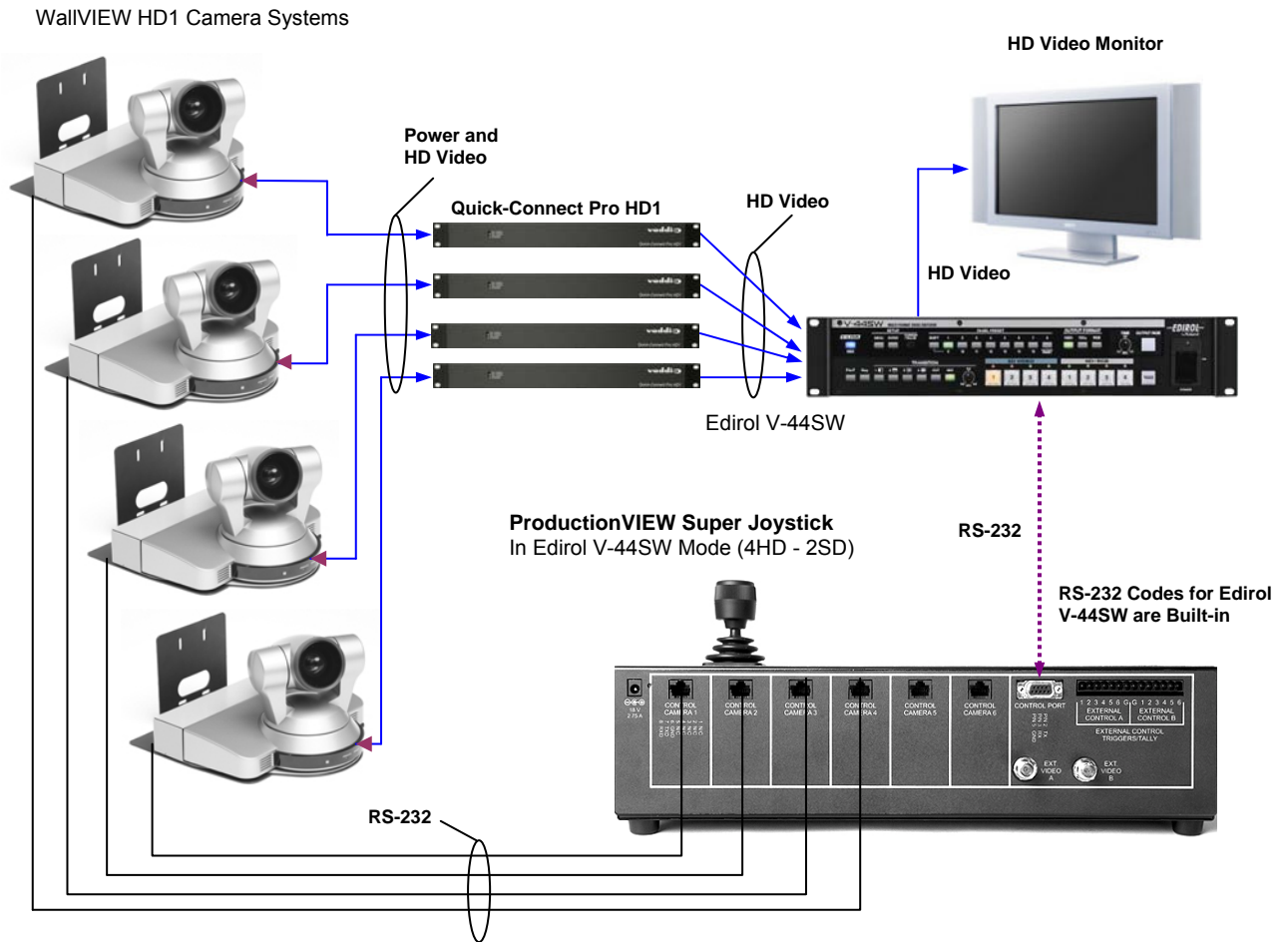- External Switcher is controlled by the Super Joystick via closures

Figure 5: System Configuration - High Definition Video
- Cameras are controlled by the Super Joystick
- Video is handled by an external video switcher
- External Switcher is controlled by the Super Joystick via RS-232
  - System is shown with Edirol V-44SW In Edirol V-44SW Mode (4HD - 2SD)

Operating the ProductionVIEW Super Joystick:

Master Power Switch
- When the Master Power Switch is powered down, all of the attached cameras will be placed in standby.
- When the Master Power Switch is powered up, all attached cameras will activate and select default camera and preset information as defined in the menu. The ProductionVIEW Super Joystick will scan the inputs for camera type and video signal type and auto-configure accordingly. This can take up to one minute and is normal operation.
- To power down the ProductionVIEW, press and hold the button for 1 second. This feature eliminates the accidental powering down of the system if the Power switch is bumped.

Important Note: When the camera control ports are changed or reconfigured, the ProductionVIEW Super Joystick must be restarted (power cycled) or the cameras must be rescanned for type of camera to allow reloading of the proper control codes.

Operating the ProductionVIEW Super Joystick *(continued)***:**

Setting-up Compatible External Switchers using RS-232
The RS-232 control codes for the Edirol V-44SW, Extron ISS-506 and the Analog Way Eventix external switchers are built-in to the ProductionVIEW Super Joystick. To Activate these codes use the following procedure:
1. Go to the Menu (see page 10) under Video Switcher and select the desired switcher mode.
2. The next item in the menu is the transition time, set this to the desired time.
3. Turn off the ProductionVIEW Super Joystick
4. Connect the external video switcher to the RS-232 Control Port (DB-9) on the back of the Super Joystick.
5. Turn on the external switcher and let it boot up completely.
6. Turn on the Super Joystick and let it boot up completely.
7. Test for proper operation
   a. External Control A row will control the Preview inputs
   b. External Control B will control the Program assignment with the Take and Transition Time programmed into a single button push on that row.

Setting Camera Presets per Channel:
- Press and hold the desired camera selection button for 4 seconds.
- The unused camera presets and camera selection button will flash at this time.
- Touching a flashing camera preset button, the unit will store all the information available via the camera at this time. A non-flashing or already saved preset location (not-flashing camera preset button) can be overwritten by touching it.
- Camera presets contain all the camera information besides the Pan/Tilt/Zoom position including brightness, focus, backlight, zoom-speed and others as well. The particular control saved under each camera preset is a function of the parameters available on a per camera basis.

Setting the Speed Switching (Camera Selection follows External Control A or B):
The Super Joystick can be set so the External Control A or the External Control B buttons can be tied to the Camera Selection buttons. Enter the Menu system and locate Switching Modes. Choose Manual mode, "Follow Ext. A" mode, or "Follow Ext. B" mode.
- In Manual mode, Camera Selection, External Control A and External Control B are all independent.
- In Follow Ext. A mode, the Camera Selection buttons follow the External A button pushes which transfers full camera control to that camera selected by the A bus buttons.
- In Follow Ext. B mode, the Camera Selection buttons follow the External B button pushes which transfers full camera control to that camera selected by the B bus buttons.
This mode essentially allows the end user to set up Ext. Control A or B up as a Preview Bus with an external switcher and transfer camera control to the camera selected on that bus automatically.

Using the Onboard 4" (10.16cm) LCD Monitor:
The LCD monitor is a convenience feature and the ProductionVIEW Super Joystick is generally expected to be used with additional higher resolution monitors. The ProductionVIEW Super Joystick has two External Video inputs as a convenience. Note: The LCD is covered with a thin protective film, please remove this film carefully.

The 3-Axis Joystick:
Within the menus, the 3-axis joystick is programmable for pan, tilt and zoom direction control. The zoom-in/zoom-out, tilt-up/tilt-down and pan-left/pan-right commands can be inverted on all 3-axis to customize control of the PTZ cameras attached to ProductionVIEW Super Joystick. On a per camera port basis, tilt direction and pan direction can be inverted allowing maximum flexibility when setting up the Vaddio Add-A-Cam PRO system with the Vaddio Pan/Tilt PRO pan/tilt head.

Menu System:
The menu system used is both powerful and very flexible to set-up the ProductionVIEW Super Joystick to the preferences of the operator and the requirements of the system. Please review the Menu System on the following pages in order to maximize familiarity with ProductionVIEW Super Joystick and the functions of each parameter.

ProductionVIEW Super Joystick Menu System Structure

The ProductionVIEW Super Joystick has a back lit, 2-line LCD that displays the system menus. The menus are traversed with the up/down arrows, select and cancel buttons. The menu structure is as follows:

Menu Section

Menu Structure:

1st Screen   ProductionVIEWSJ
T01.00.01

Rescan Cameras
>Select
>Start - Rescans control ports 1 through 6 to find the cameras connected
Rescan is required if a change is made to the inputs of the ProductionVIEW

Default Camera
>Select
> 01 – 06
Selects camera 1 through 6 as the default camera (default is 01)

Default Preset
>Select
> 01 – 12
Assigns camera preset 1 through 12 as Default Preset on the default camera (default is 01)

PanSensitivity
>Select
>01 – 24
Sets the pan sensitivity of the joystick - Lowering the value reduces joystick sensitivity (default is 24).

TiltSensitivity
>Select
>01 – 24
Sets the tilt sensitivity of the joystick - Lowering the value reduces joystick sensitivity (default is 24).

Pan Speed
>Select
>01 – 24
Sets the Pan Speed on all cameras between internally stored camera presets only (24 is fastest) (default is 18)
(This parameter does not affect the Pan Speed or Pan Sensitivity of the Joystick)

Pan Direction Menu
>Select
>All Ports: Normal or Invert (default is Normal) Inverts the Joystick Pan Direction (Inverted - left = right)
>Port 01: Normal or Invert
>Port 02: Normal or Invert
>Port 03: Normal or Invert
>Port 04: Normal or Invert
>Port 05: Normal or Invert
>Port 06: Normal or Invert
>Return to Main
Set this for the requirements of the Pan/Tilt Head or camera used on a per port basis

Tilt Speed
>Select
>01 – 20 (default is 15)
Sets Tilt Speed on all cameras between internally stored camera presets only (20 is fastest).
(This parameter does not affect the Tilt Speed or Tilt Sensitivity of the Joystick)

Tilt Direction
Tilt Direction Menu
>Select
>All Ports: Normal or Invert (default is Normal) Inverts the Joystick Tilt Direction (Inverted - up = down)
>Port 01: Normal or Invert
>Port 02: Normal or Invert
>Port 03: Normal or Invert
>Port 04: Normal or Invert
>Port 05: Normal or Invert
>Port 06: Normal or Invert
>Return to Main

Zoom Direction
>Select
>Normal or Invert (default is Normal)
Inverts the Joystick Zoom Direction (Inverted - Clockwise twist = zoom out)

Panel Lights
>Select
>00 through 50
Panel Light Brightness (all lights - 50 is the brightest) (default is 25, off is 00)

Switching Modes (For Camera Selection - Manual or tying Camera Selection to Ext. Control A or Ext. Control B):
>Select
>Manual
Camera Selection Button operate independently from Ext. Control A or Ext. Control B Buttons

> Follow Ext A
Camera Selection Buttons follow Ext. A Control Button Pushes
When assigned, Camera Selection switching follows the External A button selection, immediately transferring joystick and camera control directly to the camera selected on the Ext. A bus.

> Follow Ext B
Camera Selection Buttons follow Ext. B Control Button Pushes
When assigned, Camera Selection switching follows the External B button selection, immediately transferring joystick and camera control directly to the camera selected on the Ext. B bus.

Video Switcher
>Select
>None
External Control A and External Control B buttons report out via RS-232

>Edirol 3S, 3H
3 Std. Def. and 3 High Def. Input Configuration
>Edirol 4S, 2H
4 Std. Def. and 2 High Def. Input Configuration
>Edirol 4H, 2S
4 High Def. and 2 Std. Def. Input Configuration
*For use with Edirol V-44SW Multi-Format Switcher (6 channels only)

>Analog Way (supports Analog Way Eventix EVX8022 Switcher) Channels 1 through 6 only.

>Extron (Supports Extron ISS-506 6x2 Integration Switcher)

Note: Other switchers may be added in future firmware releases.

Transition Time
>Select
>0.0 - 4.0 Transition Timer, 0.0 to 4.0 seconds for use with Edirol, Extron and Analog Way Switchers

Ext. Triggers
>Select
>Active High
>Active Low
Select Active High or Active Low depending on the requirements of the attached device. External Control Triggers/Tally contacts are latching, TTL type. These triggers are not relays and no voltage should be applied to these triggers at any time. The External Control switches on the front panel correspond directly to the External Control Triggers/Tally on the rear panel.

System Menu
>Select
>Serial Input
>Select
>Yes or No
Turns on or off serial input (default is Yes or On)
>Serial Echo
>Select
>Yes or No
Turns Serial Echo on or off (default is Yes or On)

System Menu *(continued)*

>Clear Memory
>Select
>Start
Clears the camera preset memories and sets all parameters to default settings

>Clear Presets
>Select
>Start
Clears the camera preset memory only

>Serial Info
>Select
>On or Off
Reports button pushes on front panel out the serial port (default is off)
(Does not report joy stick position)

>Power Up Preset
>Select
>Home Camera
>Select - Upon power up, all cameras will go to their home position

>Preset 12
> Select - Upon power up, all cameras will go to Preset 12

>Preset Location
>Select
>All Local
>6 InCam 6 Local
In "All Local" mode, the ProductionVIEW stores all 12 presets internally.
In "6 InCam 6 Local" mode, the presets 1 through 6 will be stored in the cameras.
Presets 7 through 12 will be stored in the ProductionVIEW.

Note: The "6 InCam 6 Local" mode allows for switching video sources when cameras are moving to preset locations. Since Presets are stored in Camera, the system does not have to wait for position feedback before allowing another command to be entered.

>Return to Main
>Select
Returns to Main Menu item (System Menu)

General Specifications:

ProductionVIEW Super Joystick	
System Part Numbers	999-5300-000 North America (North American AC Cord Set) 999-5300-001 International (Euro and UK AC Cord Set)
System I/O	Six (6) RS-232 Camera Control Ports on RJ-45 Connectors One (1) Master RS-232 Control Port on DB-9F Six (6) External Control A (Preview) Triggers/Tally on Phoenix Type Connectors Six (6) External Control B (Main) Triggers/Tally on Phoenix Type Connectors One (1) Ext. Video A (Preview) Input on BNC Connector One (1) Ext. Video B (Main) Input on BNC Connector One (1) Power Connector (Coaxial, Positive Center, 5.5mm OD x 2.5mm ID)
Joystick	3-Axis, Hall Effect, Non-contacting type
LCD Monitor	4" (101.6mm) Active Matrix with 960 x 234 Resolution
LCD Display	2-Line Back-lit Display
Internally Stored Presets	72 (12 per PTZ camera attached) 2 modes **Local Mode** - All 12 Presets are stored in the ProductionVIEW **6 In Camera - 6 Local** - The presets 1 through 6 are stored in the camera allowing for quicker camera switching on those presets. Presets 7 through 12 are stored internally in the Supper Joystick
Camera Control Parameters	Brightness, Focus, AWB (auto white balance) and BLC (back light compensation)
Power Supply	18 VDC 2.75 Amp
Weight	7lbs/3.175kg
Dimensions (H x W x D):	4" (10.2cm) x 16" (40.6cm) x 10" (25.4cm)

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RS-232 Control of the ProductionVIEW Super Joystick

Key Feature: The ProductionVIEW Super Joystick has six (6) discrete camera control ports which eliminates the need for daisy-chaining control cabling. With all the ProductionVIEW consoles, all cabling configurations are home-run type or "star" wiring configurations. Each Channel will auto-configure the input channel for video signal and control for the camera attached.

Key Feature: The ProductionVIEW Super Joystick can also be controlled by an external control system such as Crestron® or AMX®. This flexibility allows for a system to be designed for multiple uses and applications where joystick control of the cameras may only be needed on occasion.

Vaddio uses very simple control protocols to accomplish custom programming with the ProductionVIEW consoles.   The Communication Specification, API and Programming Language are listed below and definitions are listed on the next page thereafter.

Communication Specification
Communication Speed: 9600 bps (default)
Start bit: 1
Stop bit: 1
Data bits: 8
Parity: None
No Flow Control

Female DB-9 Control Port Pin-outs
Pin 2:   TXD
Pin 3:   RXD
Pin 5:   GND

API and Programming Language*

```
+----------------------------------------------------------------------------+
|                 Vaddio ProductionVIEW Super Joystick                       |
+----------------------------------------------------------------------------+
|?          - This menu                                                      |
+--------------- System ----------------------------------------------------+
|Power      x- Power(On/Off)              |Reset      - 'CPU' Reset          |
|Version     - Firmware Version           |ClearAll   - Clear all presets    |
|ExtTrigger x- Sel Active (Low/High)      |Rescan     - Re-Scan for Cameras  |
|DspCams    x- List connected cameras     |Config     - List Config Settings |
|DefaultCam x- Set Default Camera(1-6)    |CHAIn      x- CHA Source (1-6)     |
|SetDefault x- Set Default Preset(1-12)   |CHBIn      x- CHB Source (1-6)     |
|Display    x- Display (CHB/CHA/Off)      |SerialEcho x- Echo Serial (Yes/No)|
|SwitchMode x- CamSel->(CHA/CHB/Manual)   |SerialInfo x- Status (On/Off)     |
|TiltMaxSpd x- Tilt Speed Range (1-24     |PanMaxSpd  x- Pan Spd Range(1-24)  |
|PresetLoc  x- Store Preset (InCam/Lcl)   |                                  |
+--------------- Pan, Tilt, Zoom----------+----------------------------------|
|InvertPan  x- Invert Pan Dir(Yes/No)     |PanSpeed   x-Pan Speed(1-24)      |
|InvertTilt x- Invert Tilt Dir(Yes/No)    |TiltSpeed  x-Tilt Speed(1-20)     |
|InvertZoom x- Invert Zoom Dir(Yes/No)    |OnCamInit  x- (Home/Preset12)     |
+--------------- Camera -------------------+----------------------------------|
|Camera     x- Switch to Camera(1-6)      |Preset     x-Go to Preset(1-12)   |
|Zoom       x- Zoom (In/Out/Stop)         |Store      x-Store Preset(1-12)   |
|Focus      x- Focus(Auto/Near/Far/Stop)  |BLC        x-BacklightComp(On,Off) |
|Bright     x- Bright(Auto,Up,Down)       |AWB        x-AutoWhiteBal(On,Off)  |
|Move       x- Move(Up,Down,Stop,Left,Right)|Pass(cr)(Camera command string) |
+----------------------------------------------------------------------------+
```
*Carriage return required after each command

Note: To display this menu on a computer, connect a computer to the RS-232 port of the ProductionVIEW Super Joystick. With a communication program (i.e. Hyper Terminal) type in ? and carriage return, this menu will be displayed. If this menu does not display, then the computer port isn't configured correctly or the cable is either bad or pinned incorrectly.

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Command Structure Definitions

Command	Description
AWB x	(On/Off) Turns auto white balance on or off on controlled camera.
BLC x	(On/Off) Turns backlight compensation on or off on controlled camera.
Bright x	(UP) Turns brightness up one increment, (Down) Turns brightness down one increment, (Auto) restores auto brightness on controlled camera.
Camera x	(1-6) Switch control function to camera x.
CHAIn x	External Control A (1-6)
CHBIn x	External Control B (1-6)
ClearAll	Clears ALL presets.
Config	Displays the current configuration.
DefaultCam x	(1-6) This camera will be activated at startup
Display x	(CHB/CHA/Off) Selects what will be viewed on the internal LCD screen.
DspCams x	Lists connected cameras
ExtTrigger x	Select active high or active low (Low/High)
Focus x	(Auto) restores auto-focus, (Near) focus near, (Far) focus far, (Stop) stops near and far focus
InvertPan x	(Yes) Changes pan direction on all cameras. (No) Normal direction.
InvertTilt x	(Yes) Changes tilt direction on all cameras. (No) Normal direction.
InvertZoom x	(Yes) Changes zoom direction (No) Normal direction.
Move x	(Up/Down/Stop/Left/Right) Moves or stops controlled camera.
OnCamInit x	(Home/Preset 12) Homes default camera or sends all camera to Preset 12 upon power up
PanSpeed x	(1-24) Changes pan speed on all cameras 24=fastest. This is the pan speed between presets only.
PanMaxSpd x	(1-24) Sets Pan Speed Range - 24 Fastest
Pass(cr)	Passes next string to controlled camera (camera response, if any, is not passed back)
Power x	(On) Starts ProductionVIEW, (Off) Places ProductionVIEW and all controlled cameras into standby mode
Preset x	(1-12) Go to preset x on controlled camera.
PresetLoc x	(InCam/Lcl) Preset location - Local is all 12 internal - InCam is 6 in the cameras and 6 internal
Rescan	Rescans for attached cameras.
Reset	Reboots system
SerialEcho x	(Yes) Serial commands sent to the ProductionVIEW SJ will be echoed back. (No) Not echoed.
SerialInfo x	(On) Shows console button pushes to RS232 host port. These commands the same as the input serial commands (Off) Does not show these button pushes.
SetDefault x	(1-12) Set Default Preset
Store x	(1-12) Stores preset x for the controlled camera.
SwitchMode x	CamSel - (CHA/CHB/Manual) Sets Camera Selection to follow Ext A or External B button pushes
TiltSpeed x	(1-20) Changes tilt speed on all cameras 20 = fastest. This is the tilt speed between presets only.
TiltMaxSpd x	(1-24) Sets Tilt Speed Range - 24 Fastest
Version	Displays Firmware version installed
Zoom x	(In) Zooms in (Out) Zooms out (Stop) Stops Zoom - On controlled camera.

Compliance and CE Declaration of Conformity

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 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'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numeriques de la classe A préscrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications du Canada.

European Compliance
This product has been evaluated for Electromagnetic Compatibility under the EN 55103-1/2 standards for Emissions and Immunity and meets the requirements for E4 environment.
This product complies with Class A (E4 environment). 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 89/336/EEC

EN 55103-1   Electromagnetic Compatibility - Emissions

EN 55103-2   Electromagnetic Compatibility - Immunity

EN 55022A   Conducted and Radiated Emissions

EN 61000-3-2 Limits for Harmonic Current Emmissions

EN 61000-4-2 Electrostatic Discharge

EN 61000-4-3 Radiated Immunity

EN 61000-4-4 Electrical Fast Transients

EN 61000-4-5 Surge Immunity

EN 61000-4-6 Conducted Immunity

EN 61000-4-8 Power Frequency Magnetic Field

EN 61000-4-11 Voltage Dips, Interrupts and Fluctuations

Annex A   Magnetic Field Immunity

Warranty Information:

Hardware* Warranty - One year limited warranty on all parts. Vaddio warrants this product against defects in materials and workmanship 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.

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 in the ProductionVIEW Super Joystick
- Keep this device away from food and liquid
- For smears or smudges on the console, wipe with a clean, soft cloth.
- Do not use any strong or abrasive chemicals.

Operating and Storage Conditions:
Do not store or operate the ProductionVIEW Super Joystick 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
- Dusty environments
- Under severe vibration

Specifications and Camera Compatibility are Subject to Change.

Touchboards

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