

VADDIO™ PRODUCTIONVIEW™ HD

Camera Control Console with HD/SD Video Switching, Video Transitions, Up/Down Converting of Inputs and Outputs, Lower Screen Graphics and Automated Control Functionality

Model Number 999-5600-000 (NTSC)

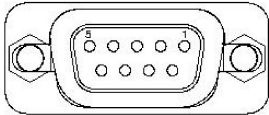
Model Number 999-5600-001 (PAL)



Appendix 1: RS-232 Control

The ProductionVIEW HD has six (6) discrete camera control ports which eliminates the need for daisy-chaining control cabling. With ProductionVIEW HD, all cabling configurations are home-run wiring configurations. Each Channel will auto-configure the input channel for control of the camera attached.

Vaddio uses simple control protocols to accomplish custom programming with the ProductionVIEW HD. The Communication Specification, API and Programming Language are listed below and definitions are listed on the next page. **Note: All commands must be followed by a carriage return.**

<p>Communication Specification Communication Speed: 9600 bps (default) Start bit: 1 Stop bit: 1 Data bits: 8 Parity: None No Flow control</p>	<p>Control Port - RS-232 on DB-9F Connector</p> <table border="1"> <thead> <tr> <th>PIN#</th> <th>Signal</th> </tr> </thead> <tbody> <tr> <td>2)</td> <td>TXD</td> </tr> <tr> <td>3)</td> <td>RXD</td> </tr> <tr> <td>5)</td> <td>GND</td> </tr> <tr> <td colspan="2">All other pins - Unused</td> </tr> </tbody> </table> 	PIN#	Signal	2)	TXD	3)	RXD	5)	GND	All other pins - Unused	
PIN#	Signal										
2)	TXD										
3)	RXD										
5)	GND										
All other pins - Unused											

API and Programming Language

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+-----+
|                                     Vaddio ProductionVIEW HD                                     |
+-----+
| ?           - This Menu                                                    |
+-----+
+----- System Access -----+
|Power        x- Power (On/Off)      |SysMode      x- (Manual/Auto)      |
|ProgIn       x- Program (1-6,7-LSG,8-PIP)|Mix          - Mix/FTB Button  |
|PrevIn       x- Preview (1-6,7-LSG,8-PIP)|Cut         - Cut Button      |
|Camera       x- Switch to Camera(1-6) |Take        - Take Button     |
|Preset       x- Go to Preset(1-12)   |Wipe        - Wipe Button     |
|Store        x- Store Preset(1-12)   |lsgSize     x- Lsg Size(0-3)   |
|WipeSel      x- Effect select:(0-8)   |lsgDen      x- Lsg Density(0-9)|
|0:Wipe UL>LR,1:Wipe Top>Bot,        |BLC         x-BacklightComp(On,Off)|
|2:Wipe UR>LL,3:Wipe L>R,4:Wipe Cnt>Out,|AWB        x- AutoWhiteBal(On,Off)|
|5:Wipe R>L,6:Wipe LL>UR,7:Wipe Bot>Top,|PipLoc     x,x- Location,size(0-2)|
|8:Wipe LR>UL                          |           0:UL,1:UR,2:LL,3:LR |
+-----+
+----- Joystick Pan, Tilt, Zoom-----+
|JPanDir      x,x-Port(0-6)Invert/Normal |JPanSpd     x,x-Port(0-6),Spd(1-24)|
|JTiltDir     x,x-Port(0-6)Invert/Normal |JTiltSpd    x,x-Port(0-6),Spd(1-20)|
|JZoomDir     x,x-Port(0-6)Invert/Normal |JZoomSpd    x,x-Port(0-6),Spd(0-7)|
+----- Preset Pan, Tilt, Zoom-----+
|PanSpeed     x- Preset Pan Speed (1-24)|TiltSpeed   x-Preset Tilt Spd(1-20)|
|ZoomSpeed    x- Preset Zoom Spd (0-7) |Home        - Home Camera      |
|PresetLoc    x- Store Preset (InCam/Lcl)|OnCamInit  x- (Home/Preset12)    |
+----- Camera -----+
|Move         x,x- (Up/Down/Stop/Left/Right),Value |
|Zoom         x,x- (In/Out/Stop),Value |
|Iris         x,x- (Up/Down/Auto/Manual),Value |
|Focus        x,x- (Up/Down/Auto/Manual),Value |
+----- System Setup and Utilities-----+
|SetDefault   x- Set Default Preset(1-12) |Tally       - Idle Tally(High/Low)|
|DefaultCam   x- Set Default Camera(1-6) |IdleRtn     x- Default Timer(0-60) |
|ExtTrigger   x- Combine (AllCam1/Cam1&2) |SerialEcho  x- Echo Serial (On/Off)|
|FTB          x- Fade U/D/(10-40)        |SerialInfo  x- Status (On/Off) |
|Reset        - 'CPU'Reset               |SwMode      x- Switch(Single/Dual) |
|DspCams      - List connected cameras   |Version     - Firmware Version  |
|ClearAll     - Clear all presets        |Config      - List Config Settings|
|SaveConfig   - Manual Config Save       |ResetVideo  - Re-Load Video config|
|Rescan       - Rescan cameras           |           |
+-----+
    
```

Appendix 1: Command Structure Definitions

Command	Parameters	Description
AWB	AWB On/Off(cr)	Auto White Balance On/Off
BLC	BLC On/Off(cr)	Backlight Compensation On/Off
Camera	Camera [9](cr)	Select indicated camera (1-6)
CamFolPrv	CamFolPrv On/Off(cr)	Set Select follows Review selection On/Off
ClearAll	ClearAll(cr)	Clear all presets
Config	Config(cr)	Display system configuration
Cut	Cut(cr)	Select Cut Transition
DefaultCam	DefaultCam [9](cr)	Set default camera (1-6)
DspCams	DspCams(cr)	Display cameras connected(and Port)
ExtTrigger	ExtTrigger AllCam1/Cam1_2(cr)	Set trigger mode all on cam 1 for 6 on each
Focus	Focus Up/Dn/Auto/Manual,[9] (cr)	Focus Up/Dn/Auto/Manual, Value
FTB	Fade U/D/(10-40)	Fade To Black
Home	Home(cr)	Home Camera
IdleRtn	IdleRtn [9](cr)	Idle Return 0-60 seconds
Iris	Iris Up/Dn/Auto/Manual,[9] (cr)	Iris change Up/Dn/Auto/Manual, Value
JPanDir	JPanDir [9],[9](cr)	Set Pan Direction by Port(0,1-6), Dir(Normal/Invert)
JPanSpd	JPanSpeed [9],[9](cr)	Set Pan Speed by Port (0,1-6), Speed(1-24)
JTiltDir	JTiltDir [9],[9](cr)	Set Tilt Direction by Port(0,1-6), Dir(Normal/Invert)
JTiltSpd	JTiltSpeed [9],[9](cr)	Set Tilt Speed by Port(0,1-6), Speed(1-20)
JZoomDir	JZoomDir [9],[9](cr)	Set Zoom Direction by Port(0,1-6), Dir(Normal/Invert)
JZoomSpd	JZoomSpeed [9],[9](cr)	Set Zoom Speed by Port(0,1-6), Speed(0-7)
lsgDen	lsgDen [9](cr)	Set LSG density (0-9)
LSgSize	LsgSize [9](cr)	LSG Size (0-3)
Mix	Mix(cr)	Select Mix/FTB mode
Move	Move(Up/Down/Left/Right/Stop)(cr)	Move camera
OnCamlnit	OnCamlnit Home/Preset12(cr)	Set initialization preset Home camera or content of preset12
PanSpeed	PanSpeed [9](cr)	Set Preset Pan Speed
PipLoc	PipLoc [9], [9](cr)	Select Pip location (0-3), Size (0-2)
Power	Power On/Off(cr)	Power system On/Off
Preset	Preset [9](cr)	Select indicated preset (1-12)
PresetLoc	PresetLoc Local/InCam (cr)	Set Preset location 6 in cam 6 in system, All in system
PrevIn	PrevIn [9](cr)	Select Preview input(1-6)
ProgIn	ProgIn [9](cr)	Select Program input(1-6)
Rescan	Rescan(cr)	Initiate Camera scan
Reset	Reset(cr)	Soft System reset
ResetVideo	ResetVideo(cr)	Re-Load Video Configuration
Save Config	SaveConfig(cr)	Saves configuration of all console settings
SerialEcho	SerialEcho On/Off(cr)	Serial Echo On/Off
SerialInfo	SerialInfo(On/Off)(cr)	Serial Information mode on/off
SetDefault	SetDefault [9](cr)	Set default Preset (1-12)
Store	Store [9](cr)	Store indicated preset on the current camera(1-12)
SwMode	SwMode Single/Dual(cr)	Select operating mode Single/Dual switcher(s)
SysMode	SysMode Auto/Manual(cr)	System Access automatic/Manual
Take	Take(cr)	Initiate Transition
Tally	Tally High/Low(cr)	Non-selected(Idle) tally level
TiltSpeed	TiltSpeed [9](cr)	Set Preset Tilt Speed
Version	Version(cr)	Display System Version information
Wipe	Wipe(cr)	Select Wipe Transition
WipeSel	WipeSel [9](cr)	Select Wipe (0-11)
Zoom	Zoom (in/Out/Stop)(cr)	Zoom Camera
ZoomSpeed	ZoomSpeed [9](cr)	Set Preset Zoom Speed