Introducing MaxColor™ 4K60

4:4:4 Chroma - 36 Bit Color
No Downscaling - No Subsampling
All on 1G Copper LAN
MaxColor™ Series

4K@60Hz
4:4:4 Chroma
36 Bit Color

This new series natively supports 4K@60Hz in and out, allowing end users to play High Dynamic Range video, including Dolby Vision and HDR10+ formats, using the growing number of Ultra 4K sources and devices. With MaxColor™, 4K60/4:4:4/36-bit color video can be distributed over a 1Gb managed network using existing CatX (Cat5e minimum) cable, eliminating the expense of upgrading to fiber and buying more costly network switches.

Use MaxColor™ 4K60 Transmitters and Receivers to create your new system, or bridge them to 3G Ultra models to support a variety of source and screen formats.

MaxColor™ can run parallel and or be bridged with 3G Ultra models. Bridging requires additional hardware.

MC-TX1 Transmitter

MC-RX1 Receiver
**MaxColor™ 4K60 Transmitter**

*MC-TX1*

**Features**

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<thead>
<tr>
<th>Audio</th>
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Featured Devices

Warp Engine
VBS-HDIP-737POE

• 1 U Rackmount
• Real Time Rotation of Video
• Image Push & Pull

• API or OSD Control of Sources
• Add-on to Any 3G System

The Warp Engine sends live rotated video to an unlimited number of Just Add Power Receivers. Rotate any HDMI source in a Just Add Power matrix in 0.1 degree increments.

Video Tiler
VBS-HDIP-759A

• Display 4 Sources on 1 Display
• View on Any Screen
• Adjustable Transparency
• Custom Sizing & Placement

• Mix Any Resolution Source
• Local HDMI Out
• Stackable for Unlimited Tiles
• Smooth Transitions for Live Events

The Video Tiler allows any integrated screen with a Just Add Power Receiver attached to do multiview.

Tile four (or more) HDMI sources on a single display in a variety of viewing modes.
**Featured Devices**

**ST-1 Sound Transceiver**  
VBS-HDIP-ST1

Operates as either a Transmitter or a Receiver.

Use the ST1 Sound Transceiver to add a stereo audio source to a Just Add Power system, or to extract stereo audio from an existing Transmitter. Supports up to 192kHz 24-bit 2-Channel LPCM Audio.

See product listing on page 5 for more information.

**Dante Enabled TX**  
VBS-HDIP-767DSS

Send and receive up to 8-Channels.

The Dante Enabled Transmitter allows any Just Add Power system to exchange 2-way audio with any Dante or AES67 sound system. Including all of the 4K system wide features found within the 3G Ultra Transmitters, this device has the richest feature set in the industry.

See product listing on page 5 for more information.

**3G POE TX With Stereo Extraction**  
VBS-HDIP-708POE

Supports all lossless audio formats - including Dolby Atmos.

The 708POE Transmitter with Stereo Audio Extraction can distribute 4K video, stereo audio, and breakout analog audio on a single device. Input stereo audio to enable the stereo audio extraction port to feed into a stereo distribution matrix.

See product listing on page 4 for more information.
3G ULTRA Transmitters

4K Transmitters
System Wide Features

- Encodes 4K or Lower Resolutions
- Supports HDCP 2.2
- 4K/60 Compatible at 4K/30
- HDR Support
- Seamless Switching
- Integrated Endpoint Control
- Zero Detectable Latency
- EDID Management
- POE Powered (unless otherwise noted)
- Plug-Play-Present
- Image Pull
- All 3D Formats Supported

3G POE
VBS-HDIP-707POE

- 4K System Wide Features
- All Lossless Audio Supported

3G POE
Plus Stereo Extraction
VBS-HDIP-708POE

- 4K System Wide Features
- All Lossless Audio Supported
- Stereo Audio Output 3.5mm

3G+ HIFI
VBS-HDIP-717HIFI

- 4K System Wide Features
- All Lossless Audio Supported
- HDMI Loopout

3G P2P
VBS-HDIP-709P2P

- 4K System Wide Features
- All Lossless Audio Supported
- Built-in POE Injector up to 40W
- Specifically Built for Point-to-Point

3G+ KVM
VBS-HDIP-718KVM

- 4K System Wide Features
- Stereo Audio Output 3.5mm
- KVM Support

AVP Upgrade Will be Available in the Future - 749A Chip Upgrade
Visit Link to Read More: www.justaddpower.com/kvmproduct.html
3G+ WP2
VBS-HDIP-717WP2
- 4K System Wide Features
- HDMI and VGA Input
- All Lossless Audio Supported
- Stereo Audio Input
- KVM Support
- Colors: Black, White or Custom

3G+ WP4
VBS-HDIP-718WP4
- 4K System Wide Features
- HDMI and VGA Input
- Dolby 5.1 Downmixing
- Audio Mixing
- Stereo Audio Input
- Stereo Audio Output 3.5mm
- KVM Support
- Colors: Black, White or Custom

3G 2-Gang Thin WP2
VBS-HDIP-707WP2
- 4K System Wide Features
- 1.5’ Total Depth
- Integrated Endpoint Control - CEC Control
- Colors: Black, White or Custom

3G POE Rackmount
VBS-HDIP-747POE
- 4K System Wide Features
- 4-in-1 Rackmount of 3G POE TX
- All Lossless Audio Supported
- POE or AC Powered

3G+ KVM Rackmount
VBS-HDIP-749KVM
- 4K System Wide Features
- 3-in-1 Rackmount of 3G+KVM TX
- Supports 110V to 240V AC Power
- Audio Mixing

AVP Upgrade Will Be Available in the Future - 749A Chip Upgrade
Visit Link to Read More: www.justaddpower.com/kvmproduct.html

3G+ Dante Enabled
VBS-HDIP-767DSS
- 4K System Wide Features
- Dante & AES67 RTP Enabled
- 8-Channel PCM Audio
- HDMI Loopout
### 3G ULTRA Transmitters

#### 1080p Transmitters

**System Wide Features**

- Encodes 1080p or Lower Resolutions
- Supports HDCP 2.2
- HDR Support
- Seamless Switching
- Zero Detectable Latency
- EDID Management
- POE Powered (unless otherwise noted)
- Plug-Play-Present
- Image Pull
- All 3D Formats Supported

#### 2GΩ/3G

**VBS-HDIP-705POE**

- 1080p System Wide Features
- All Lossless Audio Supported
- Integrated Endpoint Control

#### 2GΩ/3G SDI

**VBS-HDIP-725POE**

- 1080p System Wide Features
- Supports 48kHz Audio Sample Rate, 8 Channels, 16~24 Bits
- HDMI Loopout
- Analog Audio Output
- Integrated Endpoint Control - RS232 & IR

#### 2GΩ/3G+

**VBS-HDIP-715POE**

- 1080p System Wide Features
- All Lossless Audio Supported
- Analog Audio Input
- HDMI Loopout
- Integrated Endpoint Control
- KVM Support

#### 2GΩ/3G TVI

**VBS-HDIP-726TVI**

- 1080p System Wide Features
- TVI Input
- Analog Audio Input
- HDMI Loopout
- KVM Support
3G ULTRA Receivers

4K Receivers

System Wide Features

- Resolution Output Scaling
- HDR Support
- HDCP 2.2
- All Lossless Audio Supported
- Integrated Video Scaler
- Seamless Switching
- Integrated Endpoint Control
- Video Wall with Rotation
- EDID Management
- POE Powered (unless otherwise noted)
- Plug-Play-Present Built-in
- Image Push, Pull, Pop
- On Screen Display
- All 3D Formats Supported

3G POE

VBS-HDIP-508POE

- 4K System Wide Features

3G+ AVP

VBS-HDIP-518AVP

- 4K System Wide Features
- Analog Audio Out
- KVM Support

3G POE Daisy-Chain

VBS-HDIP-509POE

- 4K System Wide Features
- Network Out Port
- Can use with 709P2P for Video Walls
- DHCP Integration
- Supports Multiple Receivers on Single LAN Port
3G ULTRA Receivers

1080p Receivers
System Wide Features

- 1080p & Lower Resolution Support
- HDCP 2.2
- Integrated Video Scaler
- Video Wall with Rotation
- Seamless Switching
- Integrated Endpoint Control
- All Lossless Audio Supported
- POE Powered (unless otherwise noted)
- Plug-Play-Present
- Image Push, Pull, Pop
- On Screen Display
- All 3D Formats Supported

2GΩ/3G
VBS-HDIP-505POE

- 1080p System Wide Features

2GΩ/3G+
VBS-HDIP-515POE

- 1080p System Wide Features
- Analog Audio Output
- KVM Support

Accessories

2GΩ/3G ST-1
Sound Transceiver
VBS-HDIP-ST1

- Send Stereo Audio Signal from Any Transmitter to an Analog Audio System
- Inject Any Analog Audio Signal into the System
- Operates as Either a Transmitter OR a Receiver
- Supports up to 192kHz 24-bit 2-Channel LPCM Audio
- Variable Audio Adjustment from -46.5dB to +12dB
- POE Powered
- Ultra Low Latency
- Integrated Endpoint Control (RS232 & IR)

IR Control
VBS-HDIP-IRD2

- Serial to IR
- Compatible with All Devices
- Adds IP to IR Control

Rackmount Shelf
VBS-HDIP-RS1U

- 2G, 2GΩ, & 3G Compatible
- Holds up to 13 Devices
- Max 5U High
- 19’ Rackmount Shelf
Just Add Power built its reputation for outstanding performance on its design using VLAN switching on a closed network to distribute audio and video with zero detectable latency. For most installs, a **VLAN system** is still the **best performing option for a Just Add Power AV system**.

For some larger installs where equipment is already in place or must be consistent across the company’s network, a multicast system is necessary to meet these requirements.

Use the guide below to help you choose the type of system that’s right for your next project.

<table>
<thead>
<tr>
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<th>Multicast</th>
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<tr>
<td><strong>Device Config Tool</strong></td>
<td>JADConfig</td>
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<tr>
<td><strong>System Setup</strong></td>
<td>Software Does It All</td>
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<tr>
<td><strong>Software Sets Up</strong></td>
<td>J+P Devices <strong>AND</strong> Switch</td>
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<td><strong>Network Switches</strong></td>
<td>Specific Models Supported</td>
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<tr>
<td><strong>Network Knowledge</strong></td>
<td>Basic</td>
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<tr>
<td><strong>Data Network Impact</strong></td>
<td>None Standardized by J+P</td>
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<td><strong>System Maintenance</strong></td>
<td>Installer</td>
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<td><strong>Installation Type</strong></td>
<td>Residential or Commercial</td>
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<tr>
<td><strong>Control System</strong></td>
<td>Control4, URC, Crestron, RTI, MediaSwitcher</td>
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How to Build Any Size AV over IP Matrix:

1. **Source Transmitters**
   One Transmitter (TX) per source.

2. **Gigabit Switch**
   A suitable Gigabit Switch with the right number of ports. One port for each Just Add Power device plus one additional port connected to the data network.

   Multiple switches may be used to create any size matrix - allowing a flexible matrix of sources and displays.

3. **Display Receivers**
   One Receiver (RX) per display.

   **Cabling:** Use Cat 5e/Cat 6/Cat 7 for distances up to 100m or fiber optic cabling for distances up to 10km.

4. **Control System**
   **Control System Integration:** We provide free drivers for popular control systems and an easily accessible API.
Need to Expand?
Thanks to our unmatched scalability, expanding a current system is easy.

If you are adding a new source to your system, simply connect a Transmitter to the source. If adding another display, attach it to an additional Receiver. Some items require a bridging component for integration into an existing system.

Expanding a system with two new displays would only require adding two new Receivers.
Residential Install
3 Sources x 5 Displays

4 Bedroom Residential Install: Second Floor
3 Sources x 5 Displays
A simple two story install with a switch located upstairs in the living room closet with 3 sources and 1 display per room (5 total displays).

Residential AV over IP
With Just Add Power, residential installers benefit from having no fixed number of inputs/sources or outputs/displays to work around, have no difficulty distributing to distances over 100m in large luxury homes, and like the fact that they can easily return to a site in the future to expand the system when desired.
Nightclub & Sports Bar Install:

20 Sources x 30 Displays

This install is a perfect example where an installer has used stacked switches to distribute AV throughout this large commercial space.

Paired with a compatible control system, the client and their employees easily manage the sources and screens from anywhere in the building.

Pro AV & Commercial AV over IP

Whether it’s an airport, office building, a sports bar or a stadium, Just Add Power lets you build a video distribution system of networked AV devices that is scalable, reliable, economical, and easily controllable.

Our AV over IP products can also create stunning standard mosaic and artistic video walls and combine multiple video feeds onto a single screen. Read more about our Warp Engine Transmitter and the Video Tiling Processor on page 2.
**System Features**

**Any Size Matrix**
Create a flexible matrix of sources and displays limited only by the switch(es) used.

**Artistic Video Wall Capability**
Send image-rotated video content to a set of displays of any size, mounted at any angle, and pressed edge to edge or spaced apart, to provide a cohesive artistic image with video content chosen or designed exclusively for the layout.

**Audio Mixing**
Mix analog audio inputs and outputs with digital audio inputs and outputs, including HDMI, AES67 and Dante 8-channel, with adjustable volume, mute and delay.

**DHCP Integration**
Provide internet connectivity to a smart device through the same CATx cable that connects the Just Add Power matrix to that device using a DHCP server integrated receiver.

**Dolby 5.1 Downmixing**
Convert a source’s Dolby 5.1 audio to Dolby ProLogic II audio for stereo-only speaker zones and allow both audio formats to be used simultaneously in multiple speaker zones.

**Easily Accessible API**
Write custom drivers and programs to interact with Just Add Power devices.

**EDID Management**
Display High Dynamic Range (HDR) content on HDR displays, permit the same content to display on standard screens, and allow content to be displayed simultaneously on both types of screens.

**HDCP 2.2 Support**
Display content with HDCP 2.2 copy/content protection on any HDMI screen in your system.

**HDR Support**
Support High Dynamic Range (HDR) formats including HDR10, HDR10+, HLG, and Dolby Vision.

**Integrated Endpoint Control**
Control source and screen devices using built-in Consumer Electronic Control (CEC), Transmission Control Protocol (TCP/IP), Infrared control (IR) or Serial control (RS232).

**Image Pop**
Display a custom logo or message as an overlay on any active screen.

**Image Push**
Load a custom default image or logo for when no source is displayed onscreen.

**Image Pull**
Preview an image from any source or display, in any web browser or control system, at up to 10 fps.

**Image Rotation**
Rotate video input in 0.1 degree increments to create artistic video walls with screens at any angle and in any configuration.

**KVM Support**
Provide local and remote access to all computers on the system with a built-in keyboard, mouse and touchscreen interface at both ends of a connection.

**Mosaic Video Wall Capability**
Send video content to a set of displays mounted in a combination of equal or differently sized screens, mixed in portrait and landscape orientations, and pressed edge to edge or spaced apart, to provide a cohesive image with video content chosen or designed exclusively for the layout.

**Plug-Play-Present**
Capture and maintain a preset protocol that is initiated when a source is connected to a designated transmitter to power on desired display(s) and switch to the newly connected source for quick and easy presentation setup, and an ending protocol for when the source is disconnected from the transmitter, with no additional control system necessary.

**Resolution Scaling**
Downscale a source’s 4K signal for viewing on a lower resolution screen and upscale a source’s lower resolution signal for viewing on a 4K display.

**Seamless Switching**
Eliminate black screen downtime when switching sources at the same resolution and minimize black screen downtime when switching sources with different resolutions.

**Standard Video Wall Capability**
Send video content to a set of 2 to 256 displays of equal sizes, mounted in a grid in either portrait or landscape orientation and pressed edge to edge, to provide a single wall image or a set of smaller video images with the ability to dynamically change the layout as desired.

**Video Rotation**
Rotate your video by 90 degrees for portrait or landscape display.

**Video Tiling**
Combine video input from four sources to create a tiled source that can be displayed on a single screen.

**Visually Lossless Video**
Send original source signals to multiple and various screens with the same outstanding performance at each display.

**Zero Detectable Latency**
Minimize encode/decode latency over the network so that it is visually undetectable.