4K60 from Source to Screen

36 Bit Color
4:4:4 Chroma
No Downscaling
No Subsampling
All on 1G Copper LAN

Product Guide
Summer 2022
Easy Installation

Just Add Power systems require just a few easy steps to install, and our setup software guides you through the process. Our industry renowned technical support team provides installers with the tools and information they need to include our products as part of a reliable installation.

Unmatched Scalability

Just Add Power systems continue to evolve after they’ve been installed. Free firmware updates provide new functionality as technologies evolve. Sources and displays can be added and new devices integrated as system needs grow and change.

Outstanding Performance

Just Add Power systems are long-lasting and maintain a consistent, high-quality user experience. Our five-year warranty protects your investment, while our robust feature set outperforms every other system on the market, giving you the power to wow your customer every time.
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 and 3G Ultra are independent systems that can run on the same switch and be integrated with additional hardware.

<table>
<thead>
<tr>
<th>Device</th>
<th>MC-TX1</th>
<th>MC-RX1</th>
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</thead>
<tbody>
<tr>
<td>Audio</td>
<td>Supports all lossless audio formats</td>
<td>Supports all lossless audio formats</td>
</tr>
<tr>
<td>Color Depth</td>
<td>Supports deep color up to 36-bit</td>
<td>Supports deep color up to 36-bit</td>
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<tr>
<td>HDR Support</td>
<td>HDR10, HDR10+, HLG, Dolby Vision, and SDR</td>
<td>HDR10, HDR10+, HLG, Dolby Vision, and SDR</td>
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<tr>
<td>Endpoint Control</td>
<td>Control endpoints with CEC, IR, RS232</td>
<td>Control endpoints with CEC, IR, RS232</td>
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<tr>
<td>Image Pop</td>
<td>Display a custom logo or message as an overlay on any active screen</td>
<td>Preview an image from any source or display, in any web browser or control system, at up to 30 fps</td>
</tr>
<tr>
<td>Image Pull</td>
<td>Controls image as an overlay</td>
<td>Preview an image from any source or display, in any web browser or control system, at up to 30 fps</td>
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<tr>
<td>Supported Resolution</td>
<td>Computer and video resolution up to and including 4K60 @ 4:4:4</td>
<td>Computer and video resolution up to and including 4K60 @ 4:4:4</td>
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<tr>
<td>Video Wall</td>
<td>May require firmware update</td>
<td>Supports standard video wall displays</td>
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</table>
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**.

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**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.
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.

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.

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.
## 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 ULTRA

**3G+ KVM**

**VBS-HDIP-718KVM**

- 4K System Wide Features
- Stereo Audio Output 3.5mm
- KVM Support
- Field-Modifiable Dolby Chip Upgrade*

*Upgrade available once Dolby chips are in stock
**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
- Field-Modifiable Dolby Chip Upgrade*  
  * Upgrade available once Dolby chips are in stock

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

IR Control & Rackmount Shelf

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
The Holladay Cinema
Location: Salt Lake City, Utah
Integrator: Tym LLC

This ultimate entertainment space features a custom-built 16-foot wide-screen to display stunning images, a custom Tym signature star ceiling, a Just Add Power video distribution system, and more.

EVO Entertainment Multiplex
Location: Schertz, Texas
Integrator: Mood Texas

EVO Entertainment had a vision to pack their 73,000-square-foot facility with nearly a 100 displays consisting of video walls, outdoor displays, signage and more. Integrator Mood Texas was called upon to complete their vision of a high-tech establishment with flawless audio and video distribution. Thanks to Just Add Power’s easy installation, seamless switching, video wall functionality, and other features, EVO Entertainment’s high-tech vision was turned into a reality.

The Holladay Cinema
Location: Salt Lake City, Utah
Integrator: Tym LLC

This ultimate entertainment space features a custom-built 16-foot wide-screen to display stunning images, a custom Tym signature star ceiling, a Just Add Power video distribution system, and more.

Montecito Club
Location: Santa Barbara, CA
Integrator: Central Coast Audio Visual

“The owner and members of the Montecito Club have been very pleased with the clean look of the displays in the space, and how simple it is to control them... And it has delivered the performance and reliability the Club expects. The system has performed flawlessly since its deployment and its scalability will allow us to easily meet future growth, whether it’s more displays or additional sources.”

Chris Wilson
President of Central Coast Audio Visual

Residential - Home Theater

Commercial - Golf Club

Commercial - Entertainment Center

EVO Entertainment Multiplex
Location: Schertz, Texas
Integrator: Mood Texas

EVO Entertainment had a vision to pack their 73,000-square-foot facility with nearly a 100 displays consisting of video walls, outdoor displays, signage and more. Integrator Mood Texas was called upon to complete their vision of a high-tech establishment with flawless audio and video distribution. Thanks to Just Add Power’s easy installation, seamless switching, video wall functionality, and other features, EVO Entertainment’s high-tech vision was turned into a reality.
Designing A System

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

Determine Product Series

MaxColor™ 4K60
- Supports up to 4K Resolution at 60fps
- Supports HDR, HDR10, HDR10+, HLG and DolbyVision formats

3G ULTRA
- Supports up to 4K60 Resolution at 4K30 output
- Supports HDR & HDR10 formats
- Most extensive feature set with image rotation and tiling

2G OMEGA
- Supports up to 1080p Resolution
- Supports HDR format

VLAN vs Multicast System

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.

<table>
<thead>
<tr>
<th>Configuration Software</th>
<th>VLAN</th>
<th>Multicast</th>
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<tbody>
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<td>AMP</td>
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<td>AMP</td>
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<td>Software does some Installer does some</td>
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<th>J+P Devices ONLY You Configure the Switch</th>
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<th>Software Sets Up</th>
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<td>J+P Devices AND Switch</td>
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<th>Network Switches</th>
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<th>Minimum Technical Specs</th>
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<td>Specific Models Supported</td>
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<th>Installer and/or IT Admin</th>
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<th>Installation Type</th>
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<tbody>
<tr>
<td>Residential or Commercial</td>
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</table>
### Choose Network Switch
Select from a variety of supported switch manufacturers and models.

<table>
<thead>
<tr>
<th>Switch Model</th>
<th>VLAN</th>
<th>Multicast</th>
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### Control System
**Control System Integration:** We provide free drivers for popular control systems and an easily accessible API.
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. **Configuration - AMP**

   Advanced Matrix Programmer - AMP - configures Just Add Power 3G Ultra and MaxColor™ devices into an HDMI matrix switching system.

   New systems should be built with AMP. AMP will support a wider range of switches, configure 3G and MaxColor systems, and continue to be updated over time.

   AMP is the spiritual successor to JADConfig. If you were previously using JADConfig to configure systems, you can continue to use it for maintaining those systems. However, we recommend that new systems should be configured with AMP software.
Expanding A System

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.

---

**Adding Two New Displays**
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.
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.

Plugg-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.

Security
Feel confident that any Just Add Power AV over IP system is secure from outside intrusion, since the system is isolated from all data networks and devices are secure and never connected to or accessed via the internet (firmware updates are done locally by system maintenance staff).

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.

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