

# MASTERPIECE X

## Cloud-based, Broadcast-grade Master Control



Masterpiece X unlocks new workflows with a future-proofed solution that scales with an organization's day-to-day or even hour-to-hour requirements. Masterpiece X enables easy regionalization by driving multiple outputs from a single user interface, and helping to produce up to 16 different language feeds.

### What is Masterpiece X?

- Cloud-native Master Control solution running on AMPP®, Grass Valley's agile production and distribution platform
- Fully featured Master Control with mixing, branding, audio capabilities
- Deployable in the public cloud, private data center or in a hybrid model

AMPP is the technology that underpins a whole suite of cloud software offerings from Grass Valley®. The use of AMPP for this new offering follows the "build once, integrate into many" philosophy.

Masterpiece X is ideal for broadcasters and content owners who are looking to leverage the flexibility of cloud and SaaS models to reach new markets. Other organizations, such as leagues (including eSports), may benefit from the additional flexibility provided by Masterpiece X to deliver their live content to a wider audience, leveraging the plethora of emerging distribution platforms.

### Masterpiece X Key Benefits:

- **Increased monetization opportunities:** spin up additional channels, regionalize content, test new markets
- **Distributed operations:** take live control of your channels from anywhere, with just a browser and internet connection
- **Familiar Master Control workflow and control surface:** no need to retrain your Master Control operators

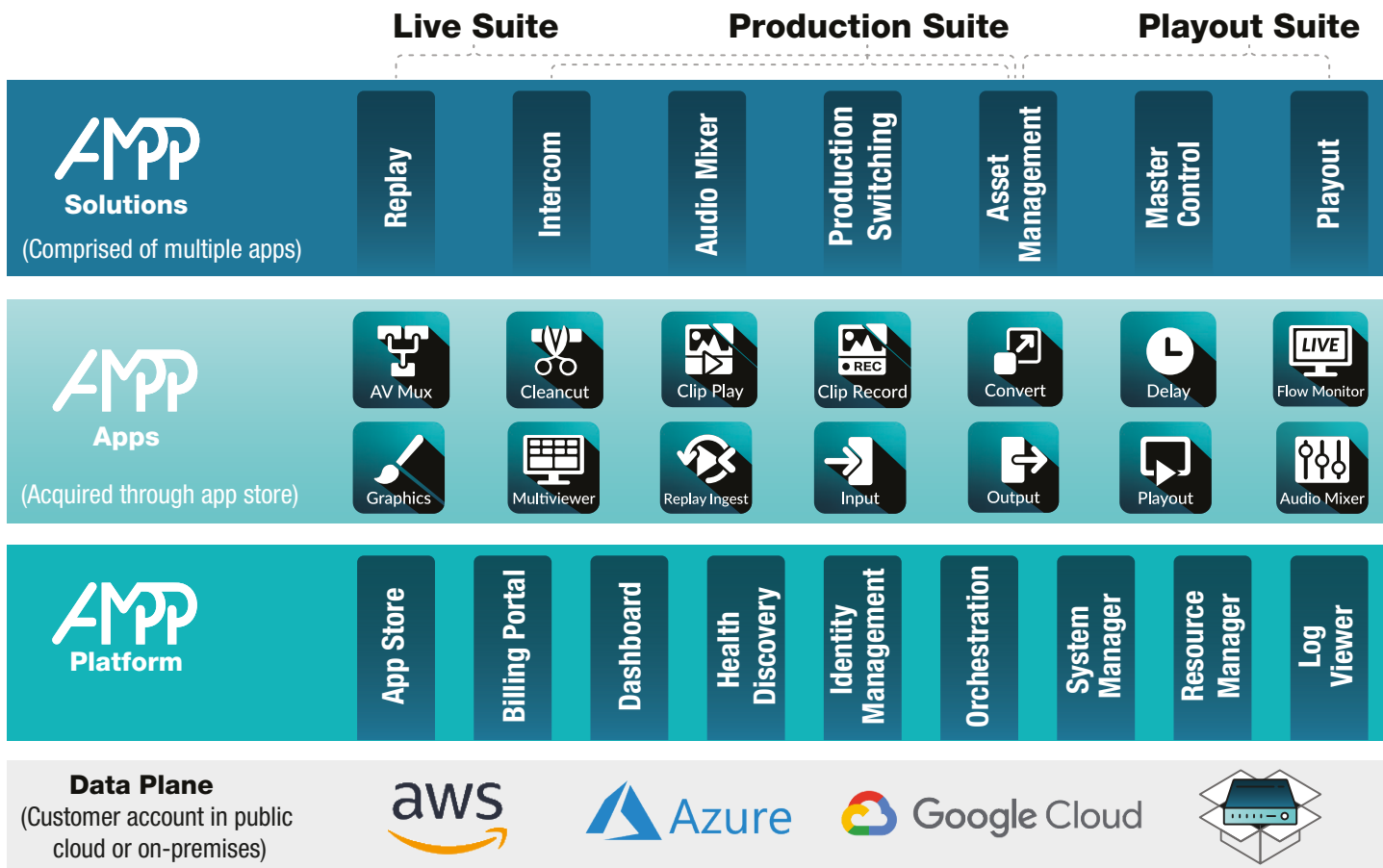
### GV AMPP Overview: Agile Media Processing Platform

Masterpiece X runs on the Grass Valley Agile Media Processing Platform (AMPP). Designed to meet the demands of live production teams who need to deliver great content, AMPP is the most agile production and distribution platform, giving creators the technology edge they'll need to thrive in a challenging live media environment. Because AMPP is open to integration with both hardware and software

solutions as well as third-party applications, it provides a path to future innovation while allowing adoption at whatever pace is right for its users. System operators can access AMPP through familiar hardware panels or nothing more than a web browser on a laptop with internet connectivity. This revolutionary platform empowers the user with unprecedented scalability to quickly spin up or spin down applications as and when needed – and only pay for the services used.

## Key Features

- Fully-featured, cloud-based master control switcher
- Scalable inputs/outputs with internal routing capabilities
- Full transition engine
- HTML5 branding graphics
- Built-in video/audio clip player with full control capabilities
- Highly visual, customizable HTML5-based UI allowing fully distributed operations
- Powerful audio control with mixing/processing/shuffling on a track-by-track basis
- Customizable multiviewer included
- Runs on AMPP, Grass Valley's cloud-based SaaS platform
- Deployable in public cloud, private cloud or hybrid configurations
- Multilingual capabilities, ideal for regionalization applications



**The GV AMPP Software Stack:** Grass Valley's Media Processing Platform for building Agile Media Solutions.

## Specifications

### Video Inputs:

- SMPTE ST 2110
- SMPTE ST 2022-6/-7
- NDI (including fill & key)
- SDI

### Video Outputs:

- SMPTE ST 2110
- SMPTE ST 2022-6/-7
- NDI
- SDI

### Codecs and Transport Wrappers:

- H.264, H.265
- SRT
- RIST
- Zixi (input only)
- WebRTC (output only)

**Audio I/Os:** SMPTE ST 2110, AES67, SDI embedded  
SD, HD and UHD formats supported  
NMOS IS-04/IS-05 support  
Clip playback and audio-over (from clip or live audio source)

### Transitions:

U-fade, V-fade, X-fade  
**Audio support:** control of individual channels for gain, shuffling  
HTML5 graphics rendering for native graphics  
6x Digital Video Effects per output  
6 keys per output  
8 audio-only channels for music or commentary

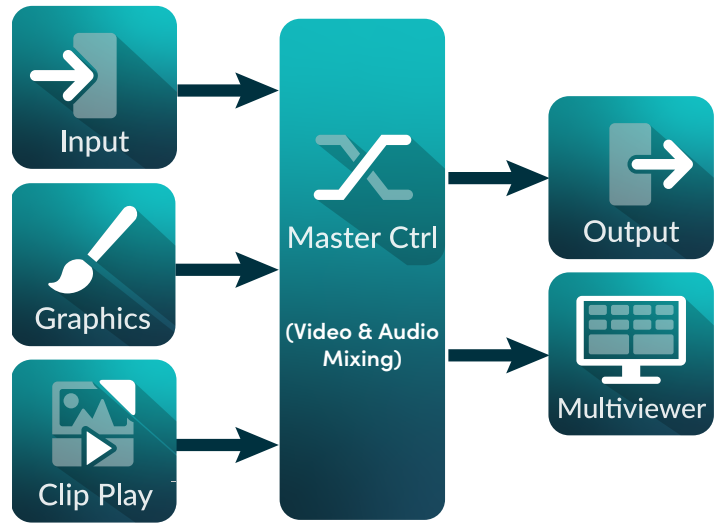
## Ordering

Please contact your Grass Valley sales representative for more details.

## Masterpiece X Components

A Masterpiece X solution consists of several components:

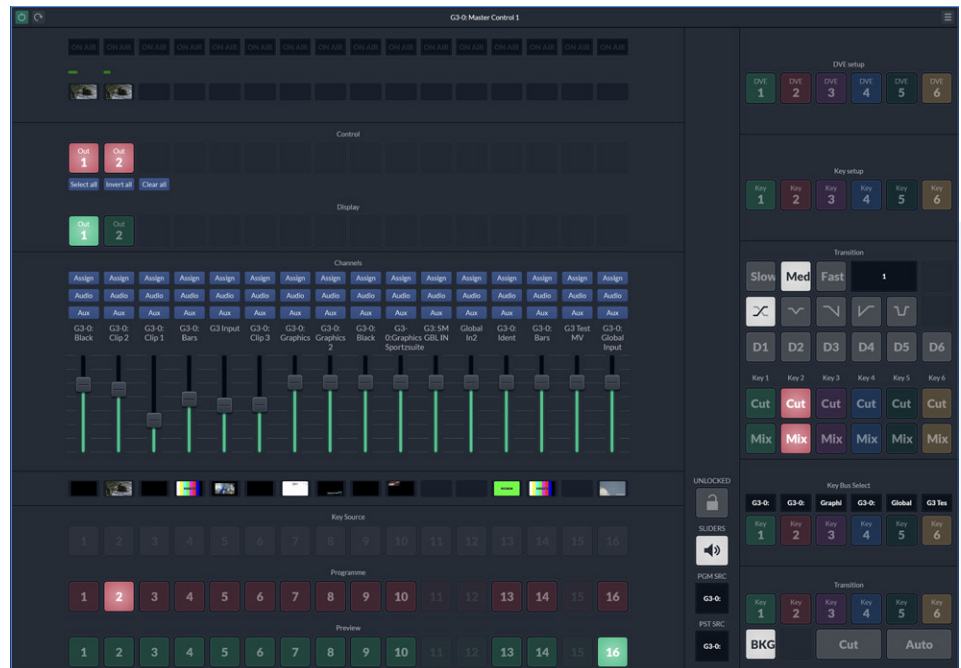
- 1. I/O and Routing:** provides all the inputs and outputs of the system as well as internal routing of signals to the different system components.
- 2. Master Control Switcher:** performs the traditional switching functions you would typically find in a hardware-based Master Control switcher, such as mixing and graphics keying.
- 3. Master Control Audio Mixer:** performs basic audio mixing functionality for all signals of the production, such as audio level adjustment and auxiliary adjustments
- 4. Clip Players:** plays back pre-rendered animations (lower third or full screen) for channel branding.
- 5. HTML5 Renderer:** renders dynamic graphics (tickers, crawls) as a normal CG would do in a traditional workflow.
- 6. Multiviewer:** provides a multiviewer to the operator, replicating the same monitoring experience as a traditional master control room.



## Masterpiece X: Operational User Interfaces

### Main Master Control Panel

This view looks very similar to a traditional master control panel where sources are organized in Preview and Program “buses.” The difference with a traditional panel is that a thumbnail provides the operator with a quick preview of the source or graphic they may want to take to air, which reduces the reliance on multiviewers and ultimately the risk for errors. Other controls, such as transition types, keyers and individual audio gains, are also provided.



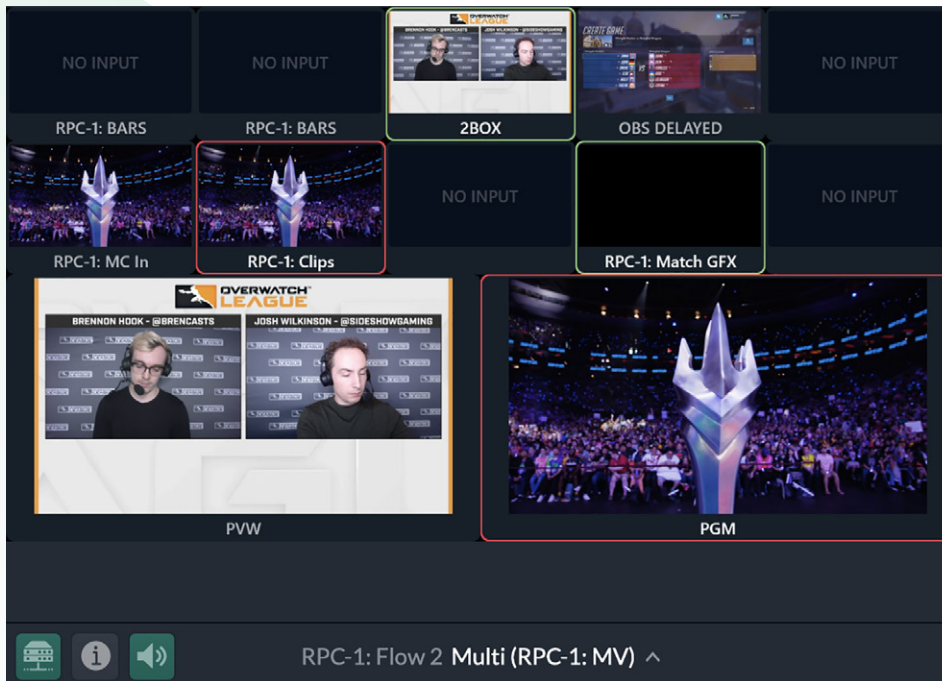
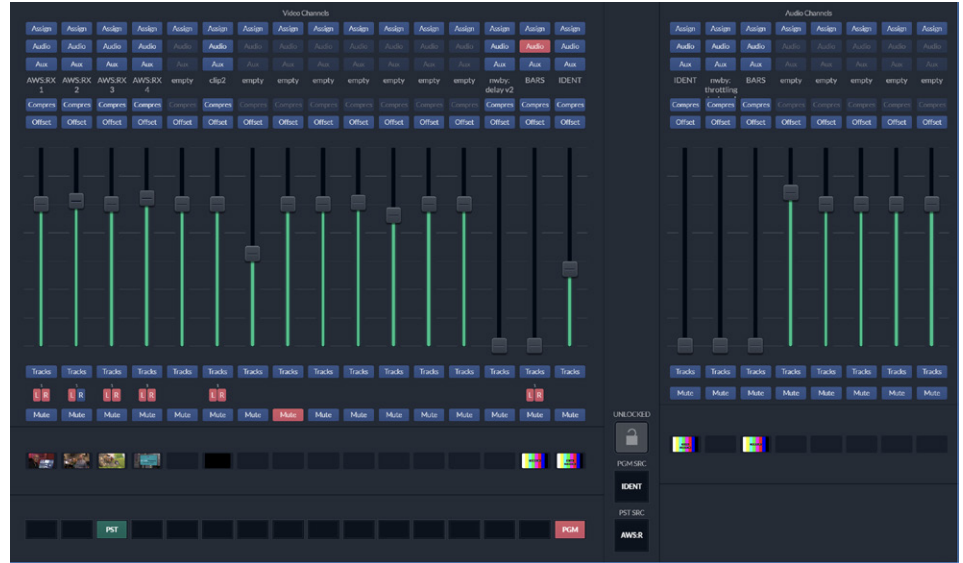
# Masterpiece X: Operational User Interfaces

## Audio Mixer Panel

This view allows an additional audio engineer to work on the same production without having to share the same user interface. Audio channels can be assigned and include a preview thumbnail. They can also be routed to auxiliary buses.

The audio panel is available in the Masterpiece X menu for audio-only operators and allows eight additional audio-only inputs, which may be useful for music, for example. The audio panel also provides an audio compressor and limiter functionality to enable all required workflows in broadcast environments.

The Aux Send option allows multiple additional Aux outputs to be created in the configuration menu. These additional Aux outputs will appear as a new source on the router panel, but with the ability to have a different audio mix. A common use case would be creating a mix minus feed to a remote contributor. Once created, the new Aux dialog on each input allows operators to adjust the level or completely remove that input's contribution to the specific Aux output.



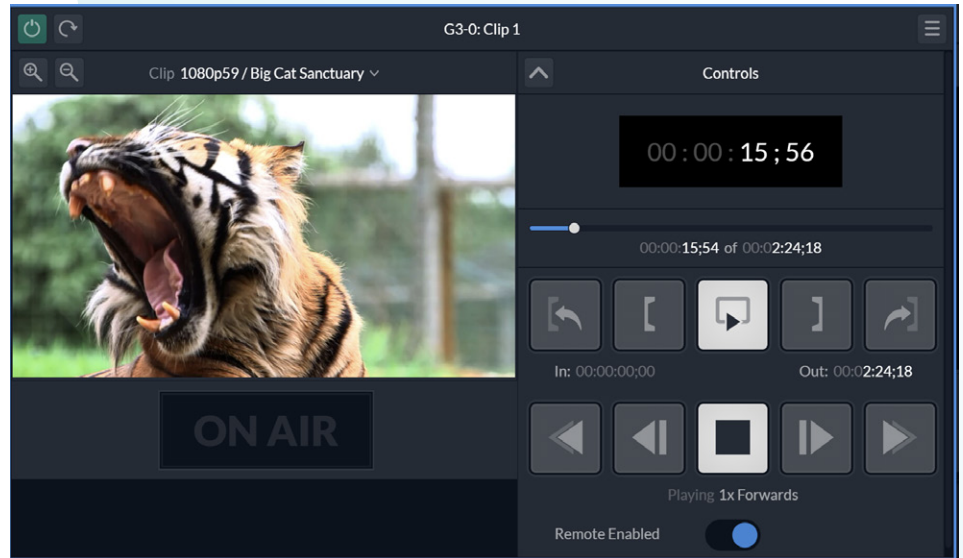
## Multiviewer

Kaleido IP X is a fully customizable multiviewer that allows you to create different layouts with a single click. Sources can be switched in seconds and the multiviewer editor enables you to create layouts in minutes. Kaleido IP X also supports multiple formats.



### Densité X – Clip Player HD

Densité X – Clip Player HD allows you to perform all the tasks of a video server. Easily load, play, stop and start, jog and shuttle, loop or trim clips. You can also change formats and run simple playback with a single click, making this tool an easy-to-use application for your production.



### Learn more about Masterpiece X:



This product may be protected by one or more patents. For further information, please visit: [www.grassvalley.com/patents](http://www.grassvalley.com/patents)

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