



# Alta 4K

PRESENTATION SWITCHERS

 ANALOG WAY®

**Alta 4K** is a new line of high-performance multi-screen and multi-layer 4K60 presentation switchers and videowall processors. The **Alta 4K** line comprises two products, Zenith 100 and Zenith 200, designed for medium to large-scale live events and permanent LED video wall installations requiring the highest reliability and performance.

## VERSATILE 4K CONNECTIVITY

The **Alta 4K** presentation switchers offer up to sixteen inputs, including fourteen 4K60 inputs (eight HDMI™ 2.0, four DisplayPort 1.2 and two 12G-SDI) as well as two 1080p inputs with user selectable HDMI™ and SDI connectors. They feature also up to six independent 4K60 outputs, each with mirrored HDMI™ and SDI connectors. Four of these outputs are additionally equipped with SFP+ connectors compatible with Analog Way's fiber optic or ST 2110 SFP modules. All **Alta 4K** products come also standard with a dedicated Multiviewer output to control all connected sources as well as Program & Preview screens.

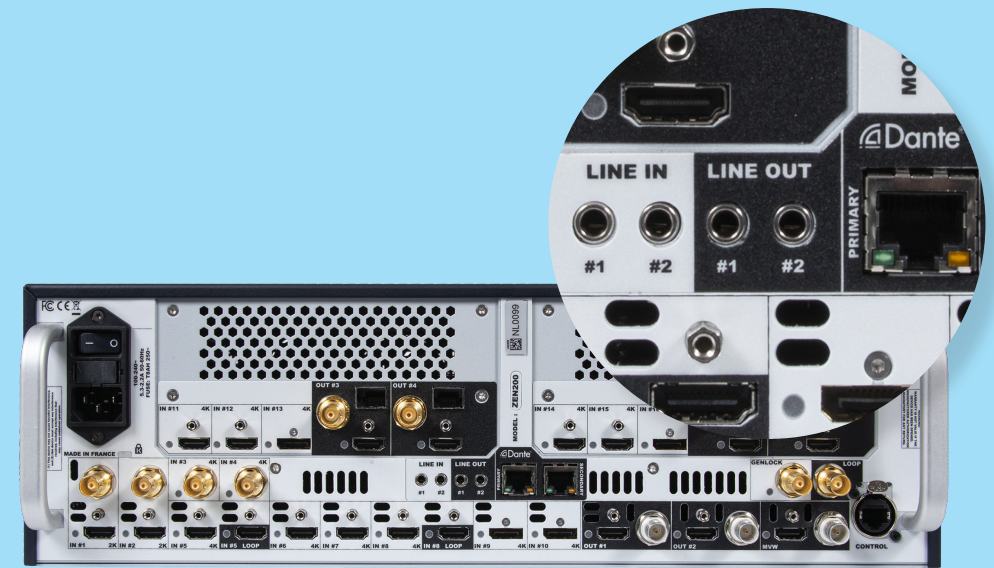


## CLASS-LEADING IMAGE PROCESSING

Like the award-winning Aquilon and Midra 4K products, the **Alta 4K** series is based on the class-leading Analog Way's 5th generation scaling engine, featuring ultra-low latency 4K60 10-bit 4:4:4 image processing, uncompromising video quality, and HDCP 2.2 compatibility. The 4K video outputs of the **Alta 4K** series can be freely configured as single screens, edge-blended widescreens or scaled auxiliary outputs, and each screen can be composed of a live background with native resolution and up to 8 live layers. The **Alta 4K** series also incorporates all Analog Way's latest innovations to meet the expectations of the most demanding customers, including advanced color correction with custom external 3D LUTs, real-time SDR/HDR conversion or high frame rate processing at up to 144 Hz.

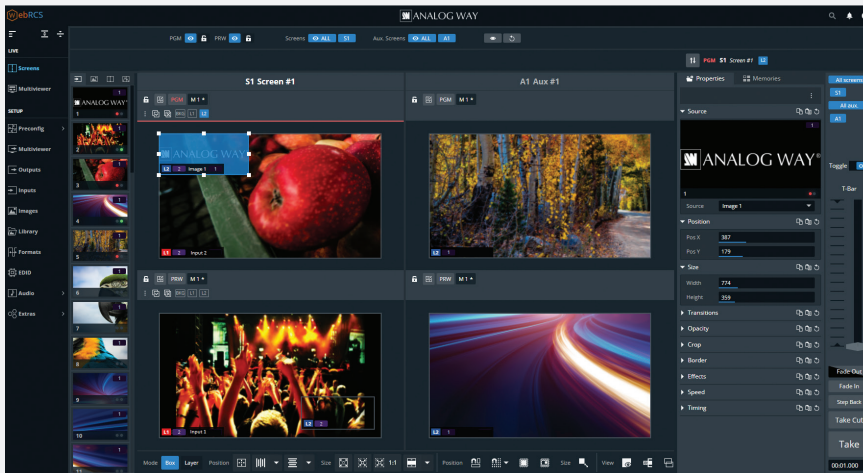
## COUNTLESS FUNCTIONALITIES

The **Alta 4K** series offers all the advanced real-time video processing features you need to unleash your creative potential and deliver outstanding presentations that leave a lasting impression: true seamless switching on all layers, advanced borders, elegant transitions, alpha channel support, Luma and Chroma keying, custom output formats, AOI ... In addition, audio can also be easily de-embedded from the video sources, and re-embedded on the physical video outputs to be sent to a display or recording device. A Dante audio networking of 32 channels is also included. The **Alta 4K** series also offers a livestreaming functionality, allowing to stream any input or output to an online web service such like YouTube and Twitch.tv, or directly send the content to software like OBS Studio for recording or custom livestreaming.



## EASY TO CONTROL AND INTEGRATE INTO YOUR ECOSYSTEM

The **Alta 4K** series features an elegant and easy-to-learn HTML5-based user interface (Web RCS) that offers unique features such as live source thumbnails and supports multi-operator collaboration. The **Alta 4K** presentation switchers can also be conveniently operated by a comprehensive range of control solutions from compact presets shot boxes to the powerful event controller RC400T, but also by many third-party solutions or controller such as Companion, Universe or SKAARHOJ Air Fly Pro. To ease the integration into a fixed installation, the **Alta 4K** series offers TCP/IP control and SNMP management via a standard Ethernet connection as well as free Crestron drivers. And for even more advanced integration, Analog Way offers the unique VideoCompositor solution, which gives end customers easy access to the powerful video compositing capabilities of the **Alta 4K** video processors directly within any Crestron application. Finally, a complete off-line simulator allows you to train yourself or to prepare your configuration and presets in advance.



## QUICK OVERVIEW

Alta 4K models	Zenith 100	Zenith 200
Inputs	13	16
Mirrored outputs	4	6
Dedicated multiviewer	✓	✓
Maximum PGM Screens	3	4
Maximum Auxiliary Screens	2	4
Hard/Soft Edge mode	✓	✓
Background layer	Live or still image	Live or still image
4K split layers per system	6	8
4K foreground layer (still image)	✓	✓
IP LiveStreaming	✓	✓

## ANALOG AND DANTE™ AUDIO NETWORKING CARD

- De-embed audio from sources and route directly to Dante™ network
- Re-embed audio from external audio processor for sending to display
- 32x32 Dante™ channels @48 kHz
- Dual redundancy Ethernet ports
- 2 analog stereo mini jack line inputs 1/8" (3.5 mm)
- 2 analog stereo mini jack line outputs 1/8" (3.5 mm)



# THE PRODUCTS

## Zenith 100



## Zenith 200



# EXTENSIVE ECOSYSTEM FOR CONTROL AND MANAGEMENT

### Control Box<sup>3</sup>



### AW VideoCompositor



### Web RCS



### Control Application

{REST:API}  
{AWJ protocol}

### Shot Box<sup>2</sup>



### Crestron® Driver

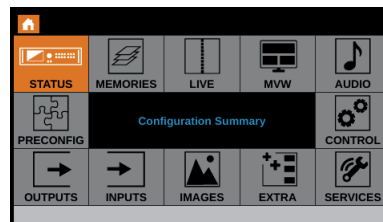


# Alta 4K Products

### RC400T



### Front Panel



### Control Software



Supported by  
**Companion**



supported by  
**universe**

# Zenith 100

Ref. ZEN100



Zenith 100 is a high-performance multi-screen and multi-layer 4K60 presentation switcher and videowall processor, with thirteen inputs, four outputs, and one dedicated Multiviewer.

## Zenith 100 at a glance :

- Compact 3RU rugged chassis
- Thirteen inputs (11x 4K60 + 2x 1080p inputs) and four multiplug outputs
- Up to 3x 4K60 PGM outputs + up to 2x full HD AUX outputs
- One dedicated multiviewer with resizable widgets
- Six 4K split layers (or three 4K mixing layers)
- Real-time 10-bit 4:4:4 video processing compliant with HDR10 & HLG
- IP Streaming of any input or output
- Intuitive HTML5-based user interface with live source thumbnails
- Advanced audio processing and dynamic routing
- Analog and Dante™ audio networking card (32x32 channels)

## KEY FEATURES :

13 inputs including 11x 4K60 inputs and 2x 2K60 inputs

4 multiplug outputs

- 2 with HDMI™ 2.0 and 12G-SDI

- 2 with HDMI™ 2.0, 12G-SDI and SFP+ connectors

Versatile 4K connectivity: HDMI™ 2.0; DP 1.2; 12G-SDI; SFP+

Up to 3 outputs configurable as independent screens or as multi-output widescreens

Unused outputs configurable as auxiliary outputs at 1080p60 (2 max)

Up to 6x 4K split layers or 3x 4K mixing layers

Seamless crossfade on all mixing layers, on all 13 sources

Live or still image background available on all PGM outputs

Additional still image foreground layer available on all screens

4x 4K concurrent still images available per screen

1 dedicated multiviewer with resizable widgets, including clocks, countdown and timers (max. resolution 2560x1600@60)

4K60 10-bit 4:4:4 ultra-low latency processing (16 msec @60Hz)

Support of HFR, up to 240Hz for inputs and 144Hz for outputs

Compliant with HDR10 and HLG - Built-in SDR/HDR converters

Advanced color correction with custom external 3D LUTs

RTMP-based livestreaming of any input or output

Advanced EDID management on every input and output

Web RCS: highly intuitive, lightning-fast web-based user interface based on HTML5 with password protection

Live video thumbnails shown on GUI

HTTP for standard connection or HTTPS for secure connection

Built-in SNMPv2-MIB

Multi operator real-time collaboration

Fully configurable from the front panel menu

Advanced audio processing and dynamic routing

Analog and Dante™ audio networking card with 32 ch.

Innovative 'Quick Preset' feature

Custom output formats for non-standard display applications

Area of Interest feature to customize active areas of outputs

Freeze of inputs, layers and screens

Easily create and recall memories on your screen and AUX outputs

Fully functional simulator for offline configuration and practice

Dedicated BNC with loop for Genlock, Blackburst and tri-level sync

I/O connector status LEDs for easy troubleshooting

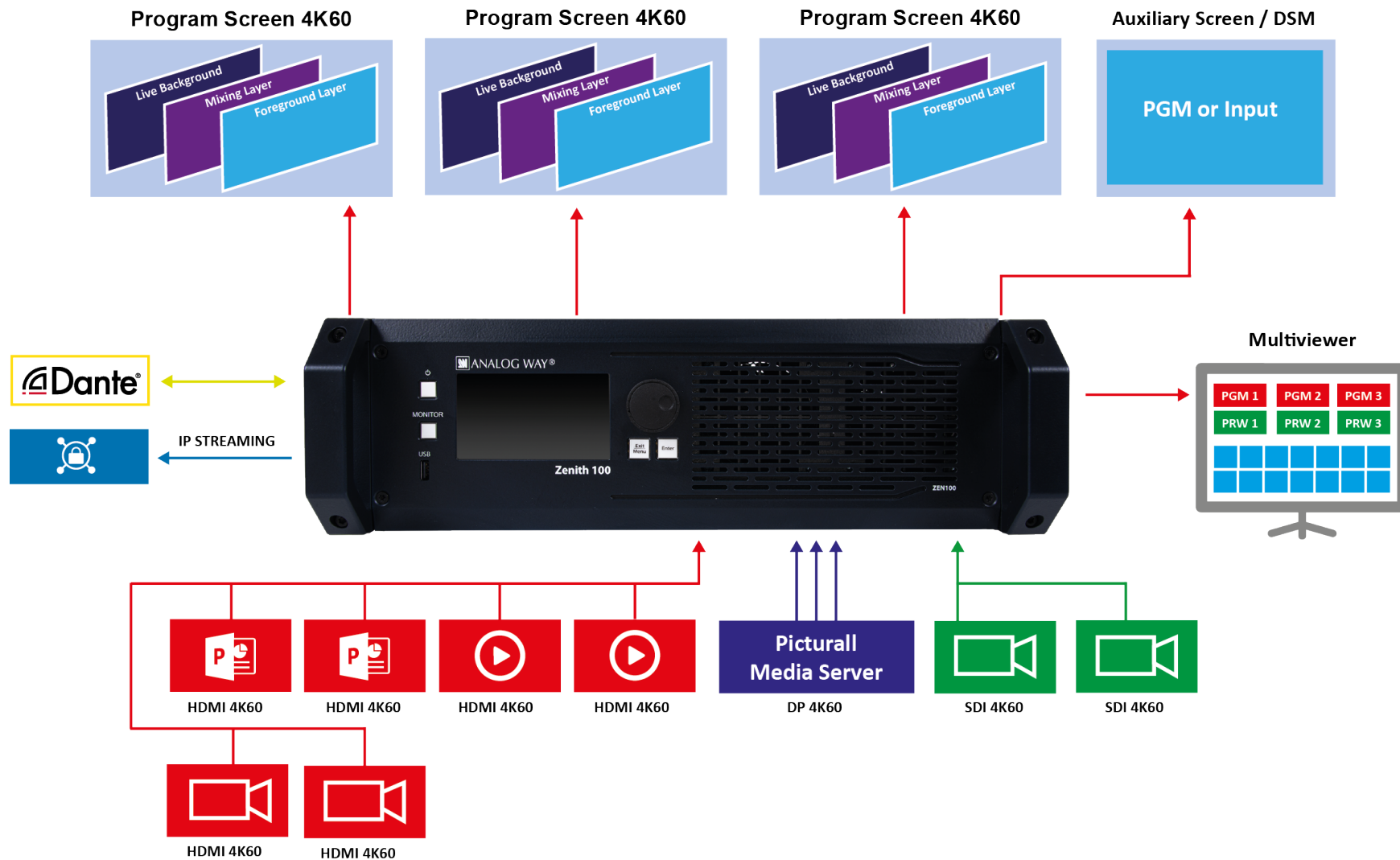
Remove services and maintenance

Backup and restore functions

# Zenith 100

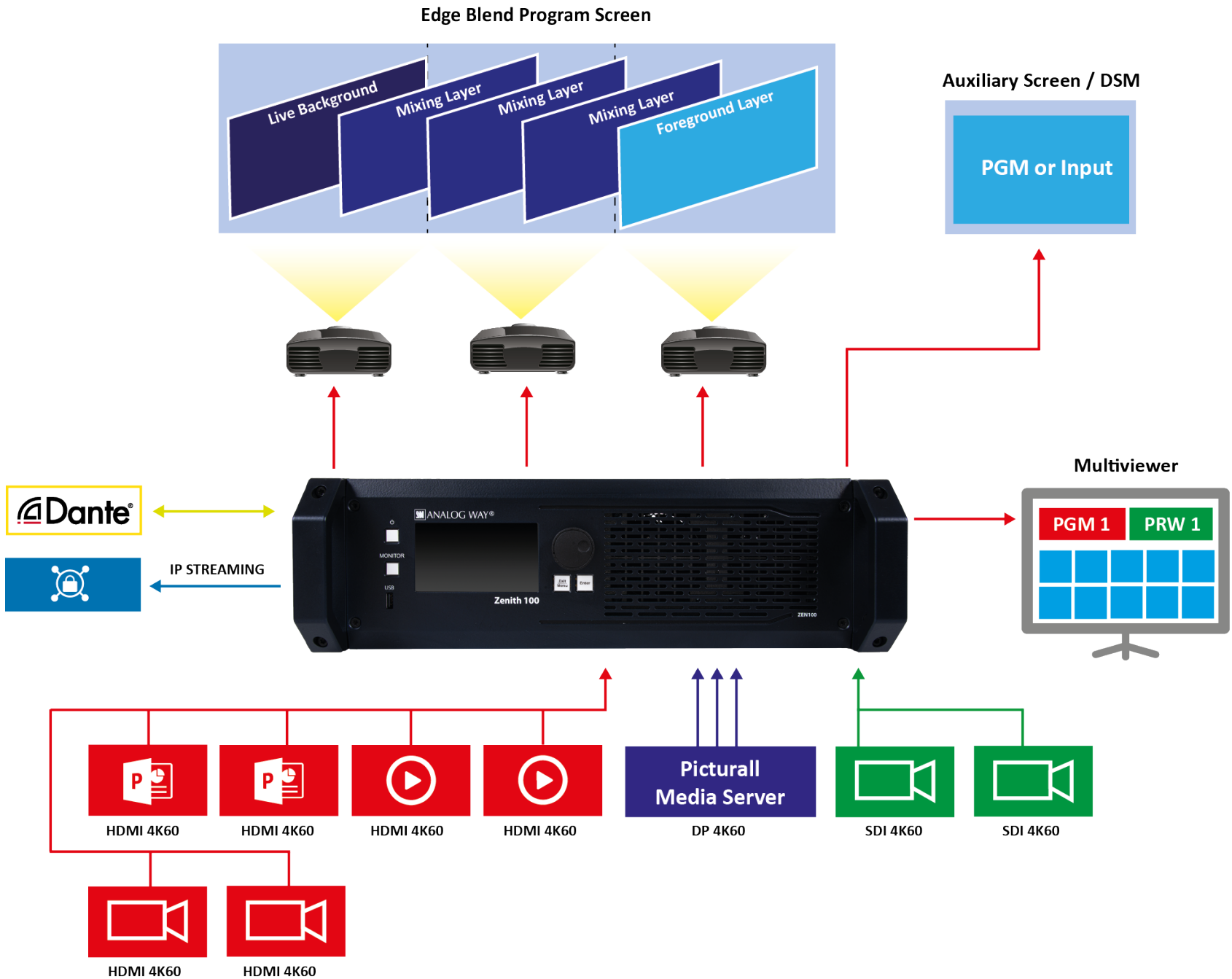
## Zenith 100 - 3 independent 4K60 Screens + AUX

APPLICATION EXAMPLE



# Zenith 100 - Multi-Projector 4K60 Edge Blending + AUX

Zenith 100



APPLICATION EXAMPLE

# Zenith 200

Ref. ZEN200



**Zenith 200 is a high-performance multi-screen and multi-layer 4K60 presentation switcher and videowall processor, with sixteen inputs, six outputs, and one dedicated Multiviewer.**

## **Zenith 200 at a glance :**

- Compact 3RU rugged chassis
- Sixteen inputs (14x 4K60 + 2x 1080p inputs) and six multiplug outputs
- Up to 4x 4K60 PGM outputs + up to 4x full HD AUX outputs
- One dedicated multiviewer with resizable widgets
- Eight 4K split layers (or four 4K mixing layers)
- Real-time 10-bit 4:4:4 video processing compliant with HDR10 & HLG
- IP Streaming of any input or output
- Intuitive HTML5-based user interface with live source thumbnails
- Advanced audio processing and dynamic routing
- Analog and Dante™ audio networking card (32x32 channels)

## KEY FEATURES :

16x inputs including 14x 4K60 inputs and 2x 2K60 inputs

6 multiplug outputs

- 2 with HDMI™ 2.0 and 12G-SDI

- 4 with HDMI™ 2.0, 12G-SDI and SFP+ connectors

Versatile 4K connectivity: HDMI™ 2.0; DP 1.2; 12G-SDI; SFP+

Up to 4 outputs configurable as independent screens or as multi-output widescreens

Unused outputs configurable as auxiliary outputs at 1080p60 (4 max)

Up to 8x 4K split layers or 4x 4K mixing layers

Seamless crossfade on all mixing layers, on all 16 sources

Live or still image background available on all PGM outputs

Additional still image foreground layer available on all screens

4x 4K concurrent still images available per screen

1 dedicated multiviewer with resizable widgets, including clocks, countdown and timers (max. resolution 2560x1600@60)

4K60 10-bit 4:4:4 ultra-low latency processing (16 msec @60Hz)

Support of HFR, up to 240Hz for inputs and 144Hz for outputs

Compliant with HDR10 and HLG - Built-in SDR/HDR converters

Advanced color correction with custom external 3D LUTs

RTMP-based livestreaming of any input or output

Advanced EDID management on every input and output

Web RCS: highly intuitive, lightning-fast web-based user interface based on HTML5 with password protection

Live video thumbnails shown on GUI

HTTP for standard connection or HTTPS for secure connection

Built-in SNMPv2-MIB

Multi operator real-time collaboration

Fully configurable from the front panel menu

Advanced audio processing and dynamic routing

Analog and Dante™ audio networking card with 32 ch.

Innovative 'Quick Preset' feature

Custom output formats for non-standard display applications

Area of Interest feature to customize active areas of outputs

Freeze of inputs, layers and screens

Easily create and recall memories on your screen and AUX outputs

Fully functional simulator for offline configuration and practice

Dedicated BNC with loop for Genlock, Blackburst and tri-level sync

I/O connector status LEDs for easy troubleshooting

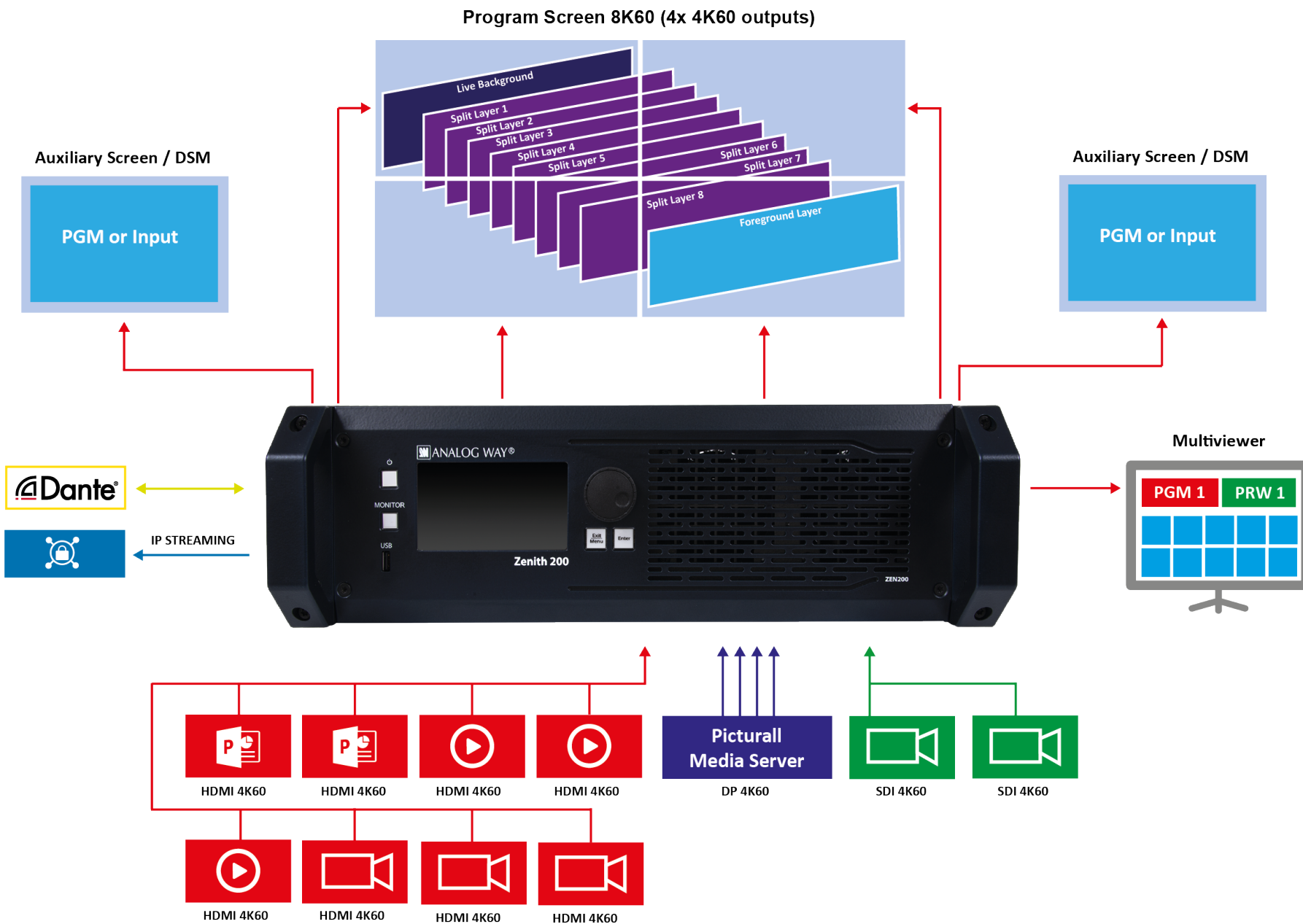
Remove services and maintenance

Backup and restore functions

# Zenith 200

## Zenith 200 - 8K60 LED Wall + 2 AUX

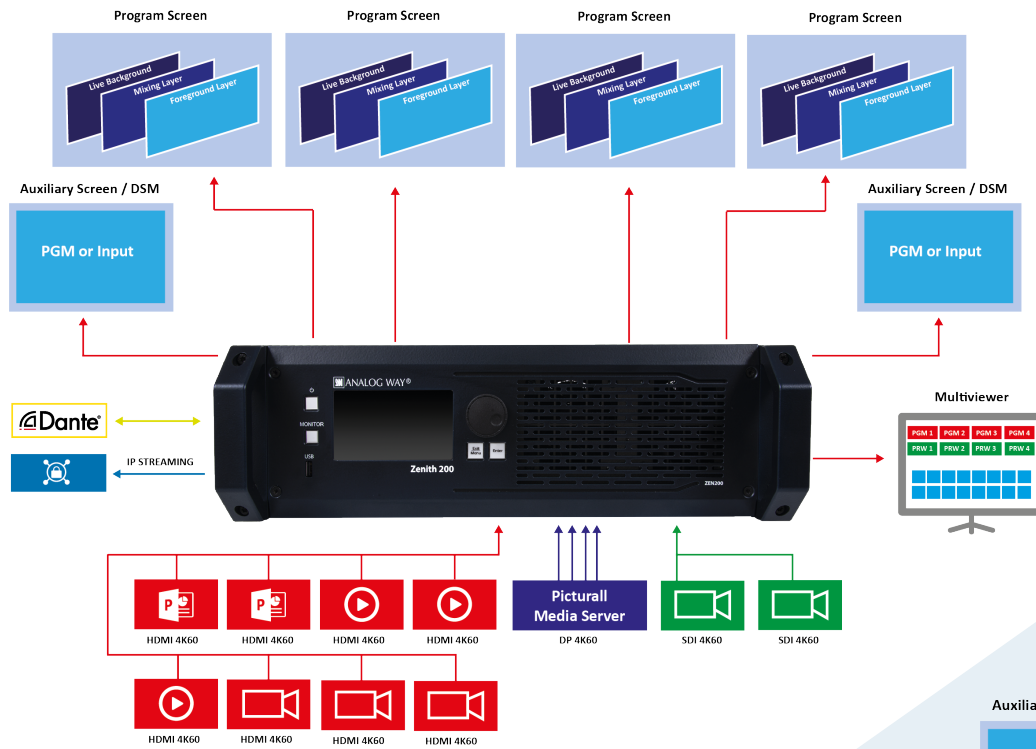
APPLICATION EXAMPLE



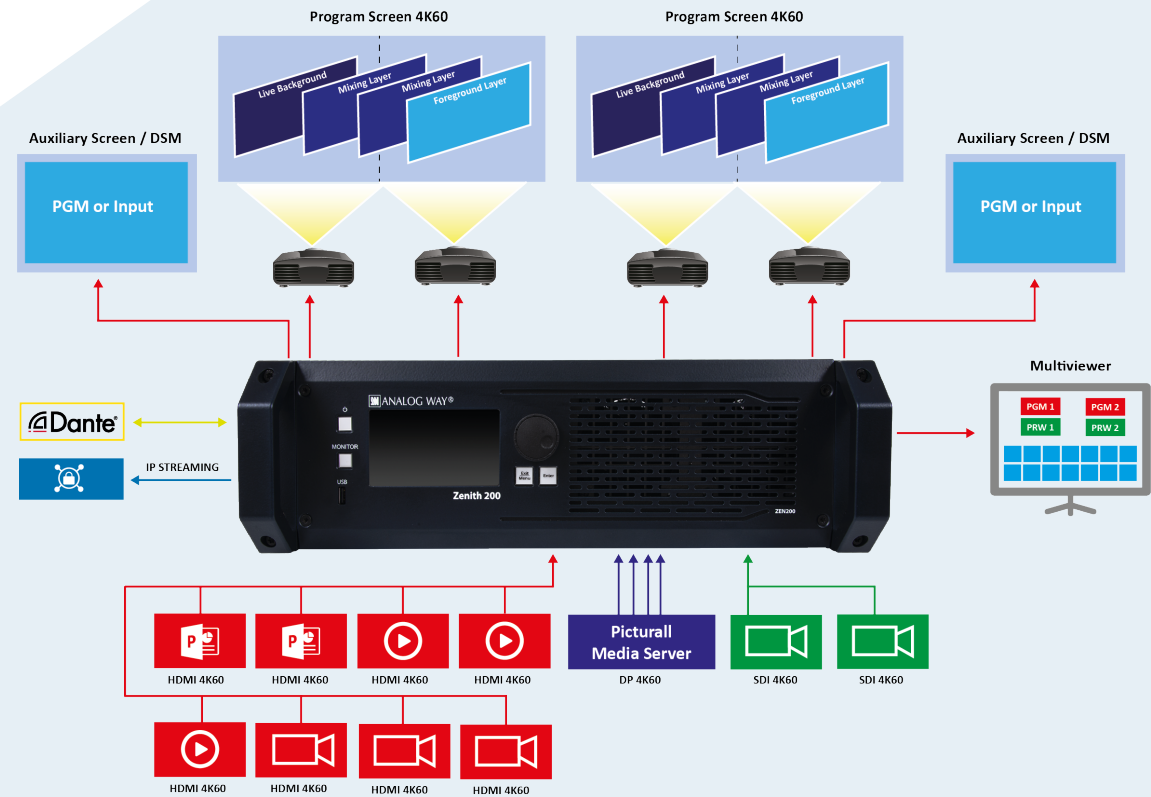
# Zenith 200 - 4 independent 4K60 Screens + 2 AUX

# Zenith 200

## APPLICATION EXAMPLE



## Zenith 200 - 2x Multi-Projector 4K60 Edge Blending + 2 AUX



# OVERALL COMPARISON

References	Zenith 200	Zenith 100
<b>INPUTS</b>	16	13
HDMI™ 2.0 (including 2 with loop out)	8	6
DP 1.2	4	3
12G-SDI	2	2
HDMI™ 1.2 / 3G-SDI (user selectable plug)	2	2
EDID <sup>(1)</sup>	✓	✓
HDCP 1.x <sup>(1)</sup> and 2.2 <sup>(1)</sup>	✓	✓
<b>OUTPUTS</b>	<b>6</b>	<b>4</b>
HDMI™ 2.0	6	4
12G-SDI (mirrored output)	6	4
SFP+ (mirrored output)	4	2
HDCP 1.x <sup>(1)</sup> and 2.2 <sup>(1)</sup>	✓	✓
<b>SCREENS</b>		
Maximum 4K60 outputs assignable to a Screen	4	3
Edge-Blended Screen	✓	✓
<b>Screen composition</b>	✓	✓
Background	Live or Still	Live or Still
Max. 4K Mixing Layers per device	4	3
Max. 4K Split Layers per device	8	6
Still Foreground	1	1
<b>AUXILIARY SCREEN</b>		
Maximum number of Auxiliary Screens	4	2
Format	1080p60	1080p60
Content	Input or PGM	Input or PGM
<b>MULTIVIEWER</b>		
Dedicated HDMI™ / SDI outputs	✓	✓
HDCP 1.x <sup>(1)</sup> and 2.2 <sup>(1)</sup>	✓	✓
Maximum format	2560x1600@60	2560x1600@60
Resizable widgets	27	27
PGM, PRW and Inputs in Widgets	✓	✓
Built-in clock, timers & clock down	✓	✓
<b>MEMORIES</b>		
Screen Preset Memories	200	200
Master Screen Preset Memories	50	50
Multiviewer Memories	20	20
Image Slot in Library	50	50
<b>IP STREAMING</b>		
RTMP/RTMPS IP Streaming of any input, output or Multiviewer	✓	✓
Compatible with various Web video platform (Youtube, Facebook, Twitch.tv...)	✓	✓
Compatible with local clients, such as OBS software	✓	✓
Video encoded in H.264 at up to 1080p30, up to 6Mbps	✓	✓
Embed any audio stereo channels (AAC encoding) at 128kbps	✓	✓

(1) On compliant connectors

# OVERALL COMPARISON

References	Zenith 200	Zenith 100
<b>IMAGES</b>		
4K concurrent image set for foreground	4	4
4K concurrent image set for background	4	4
Alpha-channel support	✓	✓
Capture from Live inputs or outputs	✓	✓
Multi-file download via WebRCS	✓	✓
<b>AUDIO</b>		
De-embed audio channels per inputs	✓	✓
Advanced Audio Processing: Level, Balance, Mute, Delay...	✓	✓
Embed audio channels per outputs	✓	✓
Fix or Dynamic routing	✓	✓
Analog and Dante™ card - 2x analog stereo mini jack in and out - 32x32 Dante™ Channels @ 48kHz"	✓	✓
<b>QUICK PRESET FUNCTION</b>		
3 modes: Black, Image or Master Preset	✓	✓
Audio routing configurable	✓	✓
<b>PROCESSING</b>		
Management of 3D LUT for correction and conversion	✓	✓
HDR compliant with HDR10 and HLG	✓	✓
Custom formats and AOI	✓	✓
Wide custom formats up to 8192x1080@60Hz	✓	
<b>TRANSITION &amp; EFFECTS</b>		
True A/B mix effect	✓	✓
Layer border and color, with shadow	✓	✓
Luma and Chroma keying	✓	✓
Color effects (B&W, Sepia, Negative...)	✓	✓
<b>CONTROL</b>		
<b>Web RCS , with HTTP / HTTPS connection</b>	✓	✓
<b>Fully Featured Front Panel</b> , with large color TFT LCD display	✓	✓
<b>Shot Box<sup>2</sup> / Control Box<sup>3</sup></b>	✓	✓
<b>RC400T event controller</b>	✓	✓
SKAARHOJ Air Fly Pro	✓	✓
Rest API and TCP Command	✓	✓
Crestron Driver	✓	✓
<b>AW VideoCompositor for Alta 4K</b>	✓	✓
Companion and Universe solutions	✓	✓
TSL protocols	✓	✓
<b>PLATFORM</b>		
Rack width	19"	19"
Enclosure	3 RU	3 RU
Rack mount kit supplied	✓	✓
Dedicated BNC with loop for Genlock	✓	✓



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