LivePremier™ series
Aquilon RS alpha, RS1, RS2, RS3 and RS4
Aquilon C and C+

Fully scalable and modular 4K/8K multi-screen presentation systems and videowall processors, delivering uncompromising presentation experiences to high-end staging and premium system integration

Outstanding Performances
The LivePremier™ series of products offers versatile digital connectivity, unmatched real-time 10/12-bit 4:4:4 video processing power, best-in-class image quality and pure 4K60p on each input and output with ultra-low latency. The range is comprised of four different systems (Aquilon RS alpha, RS1, RS2, RS3 and RS4) as well as two fully scalable and modular models (Aquilon C and C+) that can be tailored to suit any application. Thanks to its future-proof hardware architecture, the LivePremier™ series of products is ready to meet the evolving needs of your customers, such as 8K, higher framerates and more...

Industrial Grade Reliability
The LivePremier™ platform was specifically engineered to perform to the highest standards in mission-critical applications and road-hardened to survive frequent shipping and tough live events. By combining a heavy-duty modular design, the highest quality components selected for their proven reliability, and features such as redundant swappable power supplies and smart thermal management, the LivePremier™ series delivers uninterrupted 24/7 performance and peace of mind!

Versatile for the Highest Flexibility of Configurations
The modular design of the LivePremier™ series allows you to easily swap I/O connector cards to accommodate a variety of connectivity arrangements and match source and display requirements. Per chassis, the LivePremier™ series features up to 24 inputs and 20 outputs configurable as single screens, edge-blended widescreens or scaled auxiliary outputs, 2 dedicated Multiviewer outputs and up to 12x 4K or 24x HD freely assignable mixing layers. The LivePremier™ series also offers powerful features that will allow you to handle any creative display configuration, such as a custom output formats, output rotation, AOI and bezel compensation …

Smart Functionalities
The LivePremier™ series of products features state-of-the-art real time processing features that will help you to unleash all your creative potential and produce flawless, stunning live presentations: true seamless switching, flying layer movement, advanced cut and fill, cutting edge keying engine… It also allows to remove external audio de-embedding boxes: in just a few easy clicks, audio can be de-embedded from video sources, routed directly using onboard Dante™ card and re-embedded from external audio processor for sending to display, recording device, or streaming.

Best User Experience
Entirely re-imagined, the new web-based user interface is intuitive, simple, state-of-the-art and offers dozens of features you will love instantly and that make configuration and control a breeze.

Aquilon at a glance
• Industrial grade reliability
• Fully modular and scalable architecture
• Up to 24x seamless 4K60p inputs and 20x 4K60p active outputs
• Full set of field-swappable I/O connector cards: HDMI2.0, DP1.2, 12G-SDI, 12G-SFP
• True 4K/8K processing (10 and 12-bit 4:4:4)
• Up to 12x 4K or 24x DL/2K mixing layers (+ live backgrounds)
• HDR compliant with HDR10 and HLG
• Highly intuitive web-based GUI with live source thumbnails
• Native DANTE™ audio networking hardware and support
• Future proof design

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Key Features

- Based on LivePremier™ platform
- Highly ruggedized chassis with cleanable air filter
- Swappable redundant power supplies
- Up to 24 seamless inputs and up to 20 active outputs per chassis
- True 4K60p 10-bit 4:4:4 performance on every I/O channel
- Field-swappable input & output connector cards to accommodate a variety of connectivity arrangements
- Full set of input & output connector cards available: HDMI2.0, DP1.2, 12G-SDI and 12G-SFP
- Support 4K60p input and output as single, double or quad plugs
- Up to 120 Megapixels throughput at 10-bit 4:4:4 @60Hz on Program, without restricting Preview or Multiviewer
- Up to 12x 4K or 24x Dual/2K mixing layers per system (up to 24x 4K or 48x Dual/2K split layers), depending on the scaler-mode and screen setup
- Up to 24x 4K or 48x 2K concurrent still images
- Unscaled seamless background mixer on each output (using instantaneous still images or live sources)
- Flexible layer management
- Seamless crossfade on all mixing layers, on all sources
- Scaled 4k60p AUX feature for all non-PGM outputs
- Ultra-low latency 10 and 12-bit processing
- Ability to place the program outputs anywhere on an almost limitless video canvas space
- Advanced pixel pitch management for LED wall applications
- 2x configurable 4K Multiviewer outputs with up to 64 resizable widgets on each, including clocks, countdown and timers
- HDR compliant with HDR10 and HLG
- Native Dante™ audio networking hardware and support (64x64)
- Independent output rates
- Framelock or internal sync. generator
- Web RCS: Highly intuitive, lightning fast web-based user interface based on HTML5
- Live video thumbnails shown on GUI
- Multi operator real-time collaboration
- Password protection and user privileges
- Easily create and recall preset looks on all your screens and auxiliary outputs
- Custom output formats for non-standard display applications
- Area of Interest feature to customize active areas of outputs
- Still images support variable alpha-channels for transparent background on logos
- Cut and Fill (using two sources or a source and a still image)
- Fully functional simulator for offline configuration and practice
- EDID management on every input and output
- Compatible with HDCP 1.4 and HDCP 2.2
- Future-proof modular design
- Quiet: 49dB average noise at 1m when ambient temperature is less than 32°C/90°F
- Remote services and maintenance
- Backup and restore functions

Web RCS: Unrivaled Ease of Use

The LivePremier™ series features an elegant and easy-to-learn web-based embedded application, the Web RCS, designed to allow for the best ease of setup and to ensure flawless control of multi-screen presentations. The Web RCS uses modern web technologies compatible with any device or platform including iOS and Android devices, and has been designed to offer operators responsive and highly interactive, immersive experiences literally at their fingertips.

Conceived to greatly increase productivity and reduce learning curve, the Web RCS offers dozens of unique features that simplify configuring and operating such as high-quality live thumbnails of the connected sources, multi-operator collaboration with password protection and user privileges, multi-language support, walkthrough guides, keyword search and much more...

The Web RCS is compatible with any device or platform, including iOS and Android devices.
A single fully loaded Aquilon C+ can easily drive three 8K60p LED walls and eight 4K60p AUX outputs.
Technical Specifications

INPUTS
8, 16 or 24 seamless 4K60p inputs via 2, 4 or 6 field swappable input connector cards - 4 models available:
- 4x HDMI 2.0 connectors, each supporting up to 4K60p 8-bit 4:4:4, up to 4K60p 12-bit 4:2:2 or up to 4K30p 12-bit 4:4:4
- 4x DisplayPort 1.2 connectors, each supporting up to 4K60p 10-bit 4:4:4 or 4K60p 12-bit 4:2:2
- 4x 12G-SDI connectors, each supporting up to 4K60p 10-bit 4:2:2 - also compatible with 3G-SDI and 6G-SDI
- 4x 12G-SFP connectors, each supporting up to 4K60p 10-bit 4:2:2. Compatible with non-MSA SFP receivers
Support 4K60p input as single, double or quad plugs
Support custom input formats such as 8192×1080@60p or 1080×8192@60p (aka "8k x 1k") on a single connector
Connector status LEDs for easy troubleshooting

OUTPUTS
Up to 20 active 4K60p outputs via 5 field swappable output connector cards - 3 models available:
- 4x HDMI 2.0 connectors, each supporting up to 4K60p 8-bit 4:4:4, up to 4K60p 12-bit 4:2:2 or up to 4K30p 12-bit 4:4:4
- 4x DisplayPort 1.2 connectors, each supporting up to 4K60p 10-bit 4:4:4 or 4K60p 12-bit 4:2:2
- 4x 12G-SDI connectors, each supporting up to 4K60p 10-bit 4:2:2 - also compatible with 3G-SDI and 6G-SDI
- 4x 12G-SFP connectors, each supporting up to 4K60p 10-bit 4:2:2. Compatible with non-MSA SFP transceivers
Support 4K60p output as single, double or quad plugs
Support custom output formats such as 8192×1080@60p or 1080×8192@60p (aka "8k x 1k") on a single connector
Connector status LEDs for easy troubleshooting

MULTIVIEWER OUTPUTS
2 dedicated HDMI 2.0 outputs configurable as up 2x 4K30p or up to 2x 2560×1440@60p or 1x 4K60p
Up to 64 resizable widgets on each output
Customizable layouts with 50 memories
Monitor inputs and screens (Program and Preview)
Built-in clocks, countdown and timers

LAYERS & BACKGROUND
Supports mixing layers (true seamless transitions) and split layers (cut transitions)
Up to 3 video processing cards, each supporting 4x 4K or 8x Dual/2K mixing layers (doubled if split layers) depending on the scaler-mode and screen setup
Layer source can be a live input, a still image (or a screen for split layers)
Each output has an unscaled background mixer supporting seamless transitions - background source can be a still image or a live source

SCREENS
Outputs configurable as single screens or edge-blended widescreens
Up to 20x Dual/2K60p program outputs or up to 12x 4K60p program outputs (depending on the number of video processing cards and output cards installed)
Flexible layer management: each screen gets dedicated layers of various sizes (2K, 4K, ... ) using common-pool layer resources
1000 user definable screen presets and 500 master presets

SCALED AUX OUTPUTS
Any unused output configurable as a scaled auxiliary output
Up to 20x 4K60p scaled auxiliary outputs (depending on the number of output cards installed)
Can display any input or screen (1:1 or scaled)

HDCP
Compliant with HDCP 1.4 and HDCP 2.2

AUDIO
Audio embedding/de-embedding on every input & output (raw audio)
De-embed audio from sources and route directly using onboard Dante™ card
Re-embed audio from external audio processor for sending to display, streaming or recording device
64x64 Dante™ channels @48 kHz or 32x32 Dante™ channels @96 kHz
Dual redundancy Ethernet ports - AE567 support

PROCESSING
Based on Analog Way exclusive 5th generation scaling engine
Extremely low latency, as low as 1 frame in proper configuration
Motion compensation deinterlacing
BT.601; BT.709; BT.2020; BT.2100 color spaces
Advanced pixel pitch management & bezel compensation
HDR compliant with HDR10 and HLG

TRANSITIONS & EFFECTS
True A/B Mix
Misc. layer border effects/colors and separate shadow
Transitions: Cut, Fade, Slide, Wipe, Circle, Stretch, Depth, Flying layer movement with programmable paths
Layer effects: Background Cut, Transparency, Luma/Chroma Key, DSK, H&V Flip, Cut and Fill
Colors effects: B&W, Negative, Sepia and Solarize

STILL IMAGES
Up to 24x 4K or 48x 2K concurrent still images (depending on the number of still image processing cards installed)
Still images fully resizable - support alpha-channel
Still image library with 100 memories
Multi-file download/upload via Web RCS - Capture from live inputs

CONTROL
Web RCS: On-board highly intuitive drag and drop HTML5-based interface
Shot Box®/Control Box²: Cost effective control solutions
New RC400T controller
Simple REST API (HTTP & TCP) and advanced TCP protocol based on JSON
AMX/Crestron drivers
AW VideoCompositor: Premium drag & drop Crestron® GUI

OTHER FEATURES
Tally/GPI-O
Dedicated BNC with loop out for Framelock, blackburst and tri-level sync
Fully functional simulator for offline configuration and practice

EXPANDABILITY
Expansion via simple linking possible (future hardware upgrade)

Specifications subject to change without prior notice

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