



#AQL-RS2

Aquilon RS2 is a mission-critical 4K/8K multi-screen presentation system and videowall processor with 16 inputs and 12 outputs, delivering uncompromising presentation experiences to high-end staging and premium system integration. Aquilon RS2 combines industrial grade reliability, unrivaled ease-of-use, versatile 4K 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.

#### **16 Seamless Inputs**

16 seamless 4K60p inputs via 4 pre-installed input connector cards:

8 HDMI 2.0 (18 Gbps bandwidth allowing up to 4K60p 8-bit 4:4:4 or up to 4K60p 12-bit 4:2:2 or up to 4K30p 12-bit 4:4:4)

4x DisplayPort 1.2 (21.6Gbps bandwidth allowing up to 4K60p 10-bit 4:4:4 or up to 4K60p 12-bit 4:2:2) 4x 12G-SDI (up to 4K60p 10-bit 4:2:2) – also compatible with 3G-SDI and 6G-SDI

All input connector cards can be field-replaced to accommodate a variety of connectivity arrangements – 3 different input connector cards featuring HDMI2.0, DP1.2 or 12G-SDI

Supports 4K60p input as single, double or quad plugs (end 2019)

Supports 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

# **12 Active Outputs**

12 active 4K60p outputs via 3 pre-installed output connector cards:

12x HDMI 2.0 (18 Gbps bandwidth allowing up to 4K60p 8-bit 4:4:4 or up to 4K60p 12-bit 4:2:2 or up to 4K30p 12-bit 4:4:4)

All output connector cards can be field-replaced to accommodate a variety of connectivity arrangements – 3 different output connector cards featuring HDMI2.0, DP1.2 or 12G-SDI

Supports 4K60p output as single, double or quad plugs Supports 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

#### 2 Dedicated Multiviewer Outputs

2 dedicated HDMI 2.0 outputs configurable as up 2x 4K30p or up to 2x 2560x1440@60p or 1x 4K60p 24 resizable widgets on each output Customizable layouts with 50 memories Monitor inputs, still images and screens (Program and Preview) Built-in clocks, countdown and timers

#### Native Dante Audio networking

Audio de-embedding/embedding on every input & output (raw audio) De-embedded audio channels can be routed directly to the Dante network using onboard Dante card Audio channels from external Dante audio processor can be re-embedded for sending to display, streaming or recording device

64x64 Dante channels @48 kHz or 32x32 Dante channels @96 kHz

Dual redundancy Ethernet ports – AES67 support

# Flexible Screens and Layers Management

Outputs configurable as single screens or edge-blended widescreens

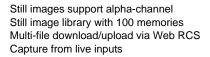
Up to 12x Dual/2K60p program outputs or up to 8x 4K60p program outputs

Flexible layer management: each screen gets dedicated layers of various sizes (2K, 4K...) using common-pool layer resources

Any unused output configurable as a scaled auxiliary 4K60p output to display any input or screen (1:1 or scaled)

1000 user definable screen presets and 500 master presets to easily recall looks on all the screens and auxiliary outputs

Up to 16x 4K60p Layers	Supports mixing layers (true seamless transitions) an split layers (cut transitions) Up to 8x 4K60p or 16x Dual/2K60p mixing layers (16: 4K60p or 32x Dual/2K60p split layers) 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 still image or live source
Ultra-low latency 10 and 12-bit processing	Based on Analog Way exclusive 5th generation scalir engine Extremely low latency, as low as 1 frame in proper configuration 80 Megapixels throughput at 10 bits 4:4:4 @60Hz on Program, without restricting Preview or Multiviewer HDR compliant with HDR10 and HLG (end 2019) Advanced motion compensation deinterlacing BT.601; BT.709; BT.2020; BT.2100 color spaces Compatible avec HDCP 1.4 – Compatible avec HDCF 2.2 (fin 2019)
Creative Display Configurations	Supports any combination of single-screen or widescreen applications Ability to place the program outputs anywhere on an almost limitless video canvas space for special LED v applications Custom output formats for non-standard display applications Independent resolution and rate on all outputs Rotation capability in increments of 90° Area of Interest option to customize active areas of outputs Advanced pixel pitch management & bezel compensa
Advanced Video Effects	True A/B Mix Misc. layer border effects/colors and separate shadov Transitions: Cut, Fade, Slide, Wipe, Circle, Stretch, Depth, Flying layer movement with programmable pa Layer effects: Background Cut, Transparency, Luma/Chroma Key, DSK, H&V Flip, Cut and Fill Colors effects: B&W, Negative, Sepia and Solarize
12 Concurrent 4K Still Images	12x 4K or 24x 2K concurrent still images – fully resizable



### Simple Setup and Advanced Control

Web RCS: embedded intuitive drag and drop HTML5-based interface Live video thumbnails shown on GUI Multi operator real-time collaboration Multi-language support AW VideoCompositor: Premium drag & drop Crestron® GUI Shot Box2/Control Box2: Cost effective control solutions Simple REST API (HTTP & TCP) and advanced TCP protocol based on JSON AMX/Crestron drivers New controller (by the end of 2019)

## **Other Features**

Highly ruggedized chassis with cleanable air filter Hot-swappable redundant power supplies Quiet: 49dB average noise at 1m when ambient temperature is less than 32°C/90°F Dedicated BNC with loop out for Framelock, blackburst and tri-level sync EDID management on every input and output Backup and restore functions Tally/GPI-O Fully functional simulator for offline configuration and practice (end 2019) Expansion via simple linking possible (future hardware upgrade)