Aquilon C

LivePremier Series

#AQL-C

Aquilon C is a fully modular and scalable 4K/8K multi-screen presentation system and videowall processor with up to 16x 4K60p inputs and 16x 4K60p outputs. Like all the products of the LivePremier series, Aquilon C 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.

Up to 16 Seamless Inputs

8 or 16 seamless 4K60p inputs via 2 or 4 field swappable input connector cards – 3 models available:
4x HDMI 2.0 connectors, each supporting 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 connectors, each supporting up to 4K60p 10-bit 4:4:4 or up to 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
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

Up to 16 Active Outputs

Up to 16 active 4K60p outputs via 4 field swappable

output connector cards – 3 models available:
4x HDMI 2.0 connectors, each supporting 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 connectors, each supporting up to
4K60p 10-bit 4:4:4 or up to 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
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 2560×1440@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
64×64 Dante channels @48 kHz or 32×32 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 16x Dual/2K60p program outputs or up to 8x
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
Any unused output configurable as a scaled auxiliary
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) and
split layers (cut transitions)

Up to 2 video processing cards, each supporting 4x 4K60p or 8x Dual/2K60p mixing layers (doubled if 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 scaling engine
Extremely low latency, as low as 1 frame in proper configuration
Up to 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 with HDCP 1.4. Compatible with HDCP 2.2 (end 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 wall 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 compensation

Advanced Video 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

12 Concurrent 4K Still Images

Optional still image processing card supporting 12x 4K or 24x 2K concurrent still images
Still images fully resizable – support alpha-channel
Still image library with 100 memories
Multi-file download/upload via Web RCS
Capture from live inputs

**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 (end 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)

Certifications