

Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon RS5, Aquilon RS6, Aquilon C, Aquilon C+, Aquilon Cmax	
Date	March 18 th , 2024	
Version	4.0.254	

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The version (s) indicated here above has (have) been tested and validated by the OA Department.

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Warnings:

DRIVERS:

- Updating to version 4.0.254 and above from 3.1.XX or lower require to update:
 - Third party drivers and plugins such as Crestron, Companion, AMX or Q-SYS. New specific drivers are available on Analog Way's website.
 - AWJ commands: please refer to LivePremier_awj_programmers_guide_v4.0.pdf
 document available on Analog Way's website

Please do not use former drivers and former AWJ commands with version 4.0.25x or higher.

DANTE FEATURE:

- To take advantages of functionalities provided by LivePremier:
 - Dante firmware update during LivePremier updater (version 2.2.79 and above)
 - Address MAC reading

A pre-requisite is to install AW Dante Firmware v3.7.0.16 (embedding Dante Firmware 4.2.0.28, available on Analog Way's website) using the Dante Firmware Update Manager tool before updating the LivePremier firmware.

- When updating to version 2.2.79 and above from a 1.x version, the following drawbacks may be encountered:
 - Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1.
 - Due to the new implementation of Aux. Screens with several layers, the Screens
 Memories for these Auxiliary Screens must be checked after the update as the size of
 the previously existing layer is automatically forced to default 1920x1080.



o Link feature

- Add the possibility to link up to four LivePremier units (any type, any size) in a Leader/Followers configuration
- Add the possible to share up to eight 4K60 inputs or sixteen 2K/dual inputs among the linked devices
- Add the possibility to control the linked devices as a single system unsing the leader's Web RCS
- Link option is available for :
 - C series : hardware options OPT-AQL-LINK and OPT-AQL-OUT-LINK-QSFP
 - RS series : optional hardware upgrade OPT-RSX-LINK

o Hardware

- Support of the new 6RU LivePremier units :
 - Aquilon RS5 (ref. AQL-RS5)
 - Aquilon RS6 (ref. AQL-RS6)
 - Aguilon Cmax (ref. AQL-CMAX)
- Support of the 8x HDMI 1.4 input card (ref. ACC-AQL-IN-HDMI1.4)
- Support of the nex QSFP+ connector link card (ref. ACC-AQL-OUT-LINK-QSFP)
- Support of new hardware revisions

o Processing

- Add the ability to use the Cut&Fill feature directly in the input processing without burning extra layer resources (Cut&Fill at layer level is still available)
- When editing a canvas in grid mode, the max grid size is increased from 8x8 to 16x16
- The output and screen patterns are now displayed in the multiviewers.
- Change the default value of "Allow Cross effect" to No
- When creating a custom format, the Reduced Blanking setting is now enabled by
- Add a new screen pattern to test 30bits
- Update the BBC's 3D LUTs for SDR/HDR conversions with the latest versions

o **System**:

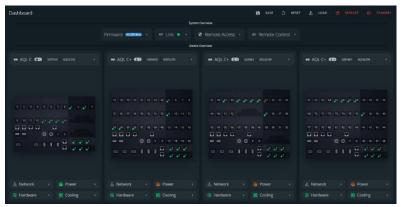
- The description of EDIDs is now standardized and homogeneous between LivePremier, Midra 4Kand ALTA 4K
- Add a protection to prevent the system update with a firmware incompatible with the hardware configuration
- When exporting a configuration file from a slot, the label is now included in the filename for a more explicit name
- Implement a DHCP retry each minute when in fallback mode



o Web RCS







- New interface with better accessibility and more consistent design
- Source/ Memories/ Transition panels are now collapsible in the Live pages
- Add the ability to zoom in/out the viewer of a screen/aux. screen/multiviewer in the Live pages of the Web RCS
- Add the possibility to filter the sources based on their name in the Live pages
- Support of the new 6RU LivePremier units
- Support of the Link feature

Bug fixes:

- o Audio nows work properly with NDI sources
- o Fix layer position issues with canvas size superior to 32000*32000 px
- o For GPOs, it is now possible to unselect an input from a screen
- o Global Copy / paste now works for timing properties
- o "Remove from all BKG Sets" in WebRCS now removes BKG in disabled screens
- o The multivewers' dynamic range is now managed properly and forced to SDR



Known issues:

- o When the Dante network clock is set to 96kHz, audio is not working anymore (both embedded and Dante audio)
- o Linked system doesn't boot if frame library size is too large -> Image Library > 1.2Go
- o At startup, layer content is not properly scaled when using multiple Aux
- o A shared input or image is not useable in background sets with the outputs of the unit it comes from
- o Timers are not perfectly synchronized if displayed on 2 outputs of the same screen but from 2 differents Aquilon



PREVIOUS VERSIONS



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	June 22 nd , 2023
Version	3.1.89

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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Evolution

o None

New features and Improvements:

o None

Bug fixes:

- o Images with a width larger than 4096 pixels are now displayed properly
- o Format 1080i @59.94Hz now works on the third output plug when the type of the output card is SDI
- o An output with 1080i format and rotation (90 or 270) now displays properly the Background layer
- o The DHCP setting for the NTP (Network Time Protocol) feature is not lost anymore after rebooting
- o When a third Party controller is used to mute an audio channel which has its source set to NONE, the control connection with the device is not lost anymore
- o The displayed Program is now always consistent with what it should be
- o After a MacBook (M1/M2) goes to standby mode and then wakes up, a DisplayPort input now detects it properly
- o It is now possible to import an LUT containing tab characters
- o Memory leak causing a long term crash is now fixed

Known issues:

o When the Dante network clock is set to 96kHz, audio is not working anymore (both embedded and Dante audio)



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	April 12 th , 2023
Version	3.1.78

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

Technical Notes:

Warnings:

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Evolution

o **EDIDs**:

- For EDIDs with 1920x1080 formats, all other larger formats, especially in the CEA extension, are removed to ensure that the source uses the right format.

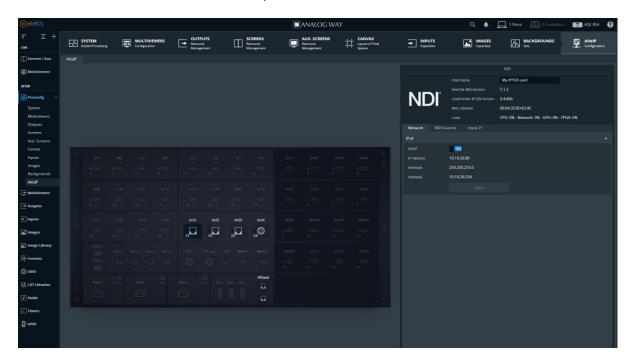
o Web RCS

- New "AVoIP" step in the SETUP>Preconfig
 - This new step allows to configure and/or get the status of all inputs and outputs using IP (Internet Protocol). Simply clicking on the selected connector, you can access its settings and statuses. Concerned technologies are:
 - NDI
 - SDVoE
 - Dante
 - As a consequence, the SETUP>Audio>Dante page is removed from the menu tree and the SETUP>Audio page gives direct access to the audio routing.

New features and Improvements:

o **Hardware**

- Implementation of a retry procedure in case a card doesn't boot properly.
- Support of the IP/SDI card (ref.: ACC-AQL-IN-IP-SDI):
 This hybrid card can manage up to 4 inputs sources to be chosen among NDI input streams and 4 12G-SDI inputs.





To manage the NDI sources, three possibilities:

- Use the mDNS service
- Enter the IP address of a discovery server
- Enter the IP address of each source







For further information about the configuration of the IP/SDI input card, please read the user manual.

For further information about its decoding performances, please read its datasheet.

- Support of new Dante Brooklyn 3

o **DPH104**

- Support of new formats for DPH104:
 - 1920x1080@24Hz
 - 1920x1200@24hz
 - 1920x1200@25hz
 - 1920x1200@30hz

Bug fixes:

- o HDCP management is globally more stable and reliable.
- o Using an firmware outdated or out-of-order card doesn't prevent the unit from booting anymore.
- o When copying the Program of a screen to its Preview, the Layer Mask settings are now copied properly.
- o Timers are not randomly teared anymore when displayed on the Program.
- When keying a frozen input, the Hue value is not modified anymore while unfreezing.

Known issues:

o Images whose width are larger than 4096 pixels are not displayed properly.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4,
	Aquilon C, Aquilon C+
Date	November 29 th , 2022
Version	3.0.255

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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Evolution

- Minimum canvas size in custom mode is now 1x1
- o Support of new hardware component references
- o In the Web RCS SETUP>Preconfig, the 3 tabs of the Screens/Aux.Screens page were suppressed and the page was split in 3 steps: Outputs, Screens and Aux. Screens.

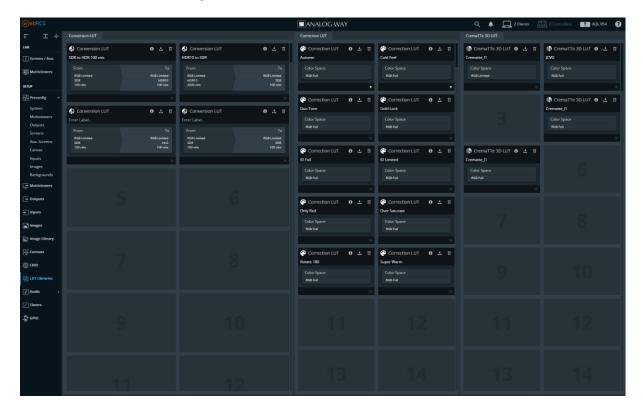
New features and Improvements:

o **Processing**

- New Processing Architecture based on Look-up Tables (LUT). The Device contains predefined-LUTs for all automatic settings. It is also possible to import and select custom LUTs in the dedicated libraries.

There are three types of LUTs:

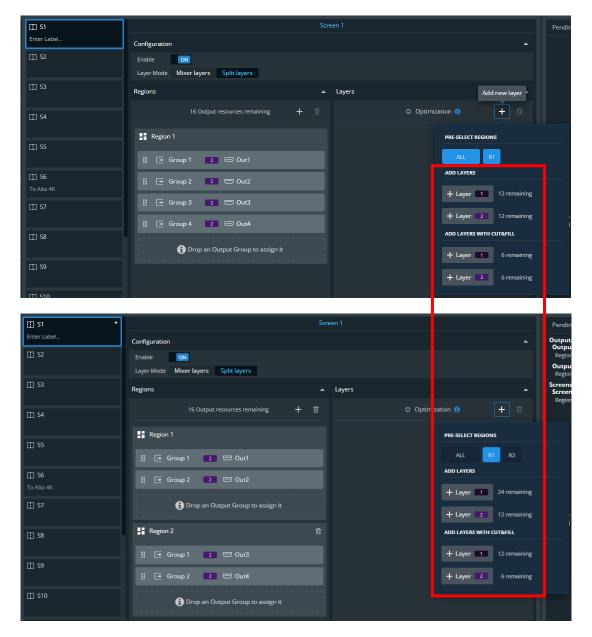
- Conversion LUTs: to be used for color space and dynamic range conversions (SDR⇔HDR). The Conversion LUTs can set manually in the Group Signal tab of input settings and the Signal tab of output settings.
- Correction LUTs: to be used to correct the colors of an input or an output.
 For outputs, they are typically useful for color calibration. The Correction
 LUTs can set manually in the Group Adjustments tab of input settings and the Adjustments tab of output settings.
- CremaTTe 3D LUTs: they are used for keying inputs. They can be generated using the AW CremaTTe 3D tool (available on Analog Way's website). The CremaTTe 3D LUTs can be set manually in the Group Keying tab of input settings





o Screen & Layer Management

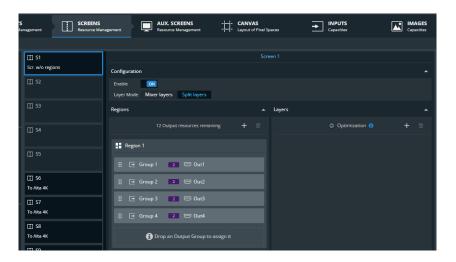
- It is now possible to **optimize the layer resources dramatically**. This can be achieved by creating regions in a screen (one or several outputs):
 - A region may not contain any layers, just the background.
 - Layers can be assigned to one or several regions
 - Layers won't be displayed outside the regions they are assigned to. They are called Captive PIPs
 - This can be used for applications that don't need having layers spreading all over the screen such as Command & Control, Sportsbook...



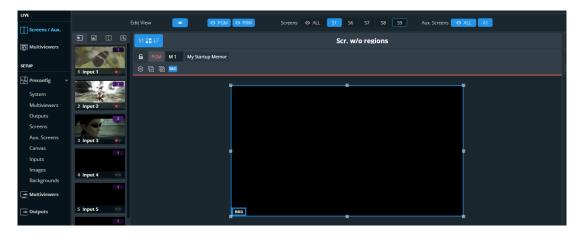
Example of an RS4 with a screen of four capacity 2 outputs with one region (Top) and two regions (bottom)



- It is now possible to create a **screen without any layers**. This can be used to create a multi-output screen containing a background (live or image) only.



Example of a Screen without layers and background only (Preconfig page)



Example of a Screen without layers and background only (Live page)



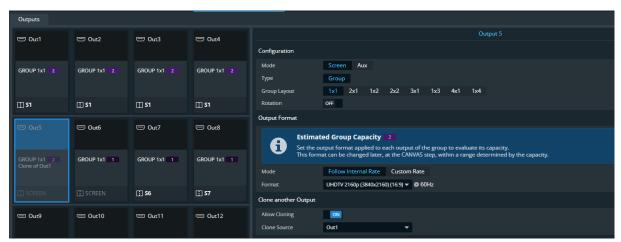
- It is now possible to select what is displayed on the Program and Preview at startup:
 - Blank Program and Preview: nothing is displayed
 - Master Memory: the selected Master Memory is loaded
 - Last known state of Program and Preview before shutdown.



Example of a master Memory to be loaded on Program and Preview at startup

o Outputs

 Add the possibility to clone an output. Any output of a Screen can be duplicated to another output with the same capacity. If it the source output hasn't got the same format and/or rates, then the clone output is scaled and/or frame-rate converted. This is useful to create redundancy for LED wall processors' backup inputs without external splitters.



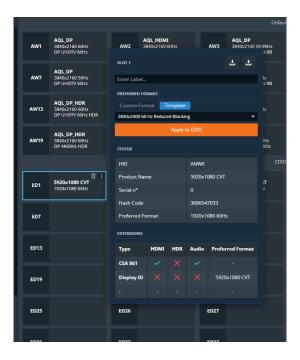
Example: Output 5 cloning Output 1

- Add the possibility to **freeze an output**. Each output can now be frozen independently from the others.



o EDID

- It is now possible to read the preferred formats of an EDID even if they are defined in extensions (CEA-861-G and DisplayID 1.3).



Example of an EDID with a DisplayPort extension containing a preferred format

Bug fixes:

o Processing

- There are no more HDCP 2.x problems with specific displays.
- Layer crop can now fully crop the content.
- Layer assigned with an input without signal are now systematically displayed in black.
- There are no more Background mismatches between Program and Preview when working with Backgrounds with a transition time set at 0s.
- Output Color Space control is now effective when the Pixel Encoding is set to Auto.
- Multiviewer outputs now systematically start properly.
- Multiviewer outputs don't lag anymore after enabling/disabling a test pattern.
- During shutdown, there is no more audio noise on a multiviewer output with audio.

o Preconfig Pages

- In the SETUP>Preconfig>Screens/Aux. Screens page, the label of 4 grouped outputs is now displayed properly.
- In the SETUP>Preconfig>Screens/Aux. Screens page, an "Invalid Configuration" error is now raised when some layers are assigned to a screen without any outputs.
- Grouped outputs are not erroneously affected to a screen after reboot.
- Rotation of output 4 doesn't disable black level of output 8 anymore.
- Black level correction is now properly applied even if the Blending Curve is disabled.

o Web RCS Live Page

- The size properties of a layer are not involuntarily reset anymore to their current values while editing them.



- In the Live> Screens page, locking a screen shouldn't make the layers' labels and outlines disappear.
- In the layer properties tab, the Mask menu was removed for Backgrounds of Auxiliary Screens.

o Control Boxes

- SB124T / SB124T-2 / SB124T-3: after loading a non-sef-contained Master Memory, pressing Take also transitions the Auxiliary Screens.
- SB124T-3: when loading a self-contained master memory, the screens are now armed properly.

o Timers

- Timers don't remain stuck at 00:00:00 anymore.

o Images

- All JPEG/JPG format files are now detected properly in the library import window.
- Captured images can be downloaded to PC even after a large number of captures/downloads.
- Input capture systematically works whatever:
 - The number of outputs in the system,
 - The number of inputs in the system,
 - The input format.

o Formats

- Custom Input Format are now always properly detected in the Preconfig > Inputs page when using the auto-detection tool.
- Capability of Custom formats in the Library are now computed properly.
- When a Custom Format memory is used by an output, modifying the memory now also updates the output format.

o Patterns

- There are no more issues with input patterns when using 1080i format.
- There are no more flashes when switching the input pattern type.

Miscellaneous

- Analog Way SFP modules are now detected properly.
- When unplugging a DHCP-configured device from the network and connecting it directly to a laptop, the IP address status is now correct.
- Temperature management is now able to handle negative temperatures.
- The device doesn't crash anymore when the front panel coder is used while booting.

Known issues:

o None.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4,
	Aquilon C, Aquilon C+
Date	July 20 th , 2022
Version	2.5.19

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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o None

Bug fixes:

o There are no more display problems of a screen used as a source in a split layer.

Evolution

o None

Known issues:

o None



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	May 3r ^d , 2022
Version	2.5.16

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o None

Bug fixes:

o None

Evolution

o Support of new hardware component references

Known issues:

o None



Products Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aqu	
	Aquilon C, Aquilon C+
Date	April 22 nd , 2022
Version	2.5.15

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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o None

Bug fixes:

o On SB124T-2, correct a regression due to SB124T-3 fix in version 2.5.14

Evolution

o None

Known issues:

o None



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	April 19 th , 2022
Version	2.5.14

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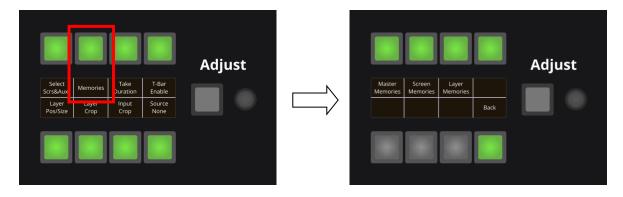
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o **RC400T**

- When a screen PGM or PRW is locked on the WebRCS and the RC400T is synchronized with WebRCS, the lock is also effective with RC400T for a safer behavior. It is not possible anymore for this screen:
 - to change the input assignment of a layer
 - to load a Screen memory
 - to overwrite its content while loading a Master Memory
- Memories can now be saved and deleted in the user keys area of RC400T:
 - Master Memories
 - Screen Memories
 - Layer Memories



Bug fixes:

- o Forcing HDCP output detection mode now systematically works
- o On SB124T-3, when pressing twice a Master Memory, the key doesn't blink inconsistently anymore
- o On SB124T-3, when loading a Master Memory, the Screen transition filter is now updated accordingly with the memory's filter
- o Input EDIDs are now restored properly when a Configuration file (including EDID Input Data) is loaded.

Evolution

o None

Known issues:

o None



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+	
Date	February 14 th , 2022	
Version	2.4.27	

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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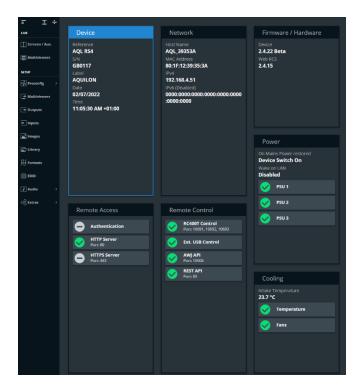
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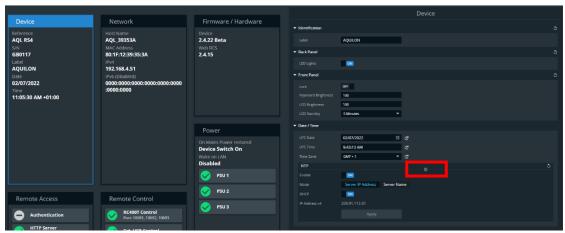


o Web RCS:

- Dashboard
 - New layout of the Dashboard page

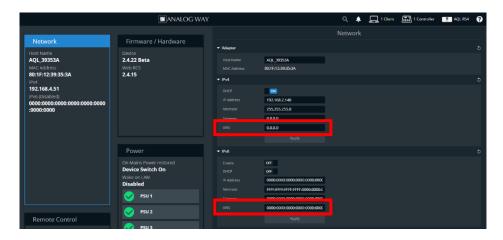


New connection status for the NTP server



Add the possibility to set the DNS address in the Web RCS





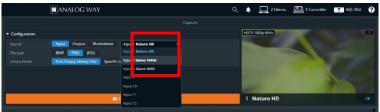
New interface of the HTTP/HTTPS settings



- Preconfiguration
 - Add an "Auto-detect" function to determine the input capacity



- Image Library
 - For the Capture function, the source label is now displayed in the drop-down list





- Audio
 - In the DANTE page, the DANTE channels are now numbered from 1 to 64
- Live pages
 - Modification of the bottom tool bar
 - A shortcut button is now available for setting a layer full screen in one step instead of centering it and then setting it at full screen size.
 - Add "Select All", "Unselect All" and "Clear" buttons



Improvement of the layer property management

- New global Copy/Paste/Reset tools for layer properties.
- New option to lock the aspect ratio of a layer while resizing it in the properties panel (independent from the one in the bottom tool bar)
- Layer cropping and masking now achievable either in pixels (new) or in percentage





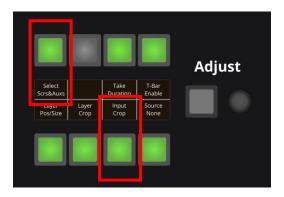
Timers

It is now possible to change the background and text colors of a timer. This
feature includes the support of an alpha channel (transparency).



o **RC400T**

- The "Select/Unselect All Screens/Aux" function is now available in the User Keys area
- The input crop using the joystick and menus is now available



Bug fixes:

- o Projector 1200P format is not defined as invalid anymore on SDI outputs.
- o When Dante rate is configured at 44.1kHz, there is no noise anymore on SDI outputs.
- o The input format 1920x1080 @144Hz is now valid in Capacity 1.
- o When a Still Image and a 50/60Hz format have the same resolution, they now have the same capacity.
- o Capacity of Custom formats with a width greater than 4096 pixels is now computed properly.

Evolution

o Support of new hardware revisions.

Known issues:

o None



Products	s Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4,	
	Aquilon C, Aquilon C+	
Date	January 25 th , 2022	
Version	2.3.117	

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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	hnical	l Notes:
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DANTE FEATURE:

- To take advantages of functionalities provided by LivePremier:
 - Dante firmware update during LivePremier updater (version 2.2.79 and above)
 - Address MAC reading

A pre-requisite is to install AW Dante Firmware v3.7.0.16 (embedding Dante Firmware 4.2.0.28, available on Analog Way's website) using the Dante Firmware Update Manager tool before updating the LivePremier firmware.

- When updating to version 2.2.79 and above from a 1.x version, the following drawbacks may be encountered:
 - Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1.
 - Due to the new implementation of Aux. Screens with several layers, the Screens
 Memories for these Auxiliary Screens must be checked after the update as the size of
 the previously existing layer is automatically forced to default 1920x1080.



o None

Bug fixes:

- o **Processing**
 - SDI 1200p input format (which is a non-SMPTE format) is not displayed with large vertical bands anymore.
- o System
 - Firmware regression might cause very rare system shutdown.

Known issues:

o None



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4,
	Aquilon C, Aquilon C+
Date	December 16 th , 2021
Version	2.3.113

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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Toc	hnica	l Notes:
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DANTE FEATURE:

- To take advantages of functionalities provided by LivePremier:
 - Dante firmware update during LivePremier updater (version 2.2.79 and above)
 - Address MAC reading

A pre-requisite is to install AW Dante Firmware v3.7.0.16 (embedding Dante Firmware 4.2.0.28, available on Analog Way's website) using the Dante Firmware Update Manager tool before updating the LivePremier firmware.

- When updating to version 2.2.79 and above from a 1.x version, the following drawbacks may
 - Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1.
 - Due to the new implementation of Aux. Screens with several layers, the Screens
 Memories for these Auxiliary Screens must be checked after the update as the size of
 the previously existing layer is automatically forced to default 1920x1080.



o Layer management

- In Split Layers mode, if a layer remains unchanged between Program and Preview and the Allow Cross Effect setting is disabled, the layer doesn't disappear anymore during transitions.

Bug fixes:

o **Processing**

- Enabling blending curves for two overlapping outputs doesn't create artefacts anymore.
- HDCP 2.2 negotiation now works with all displays.
- The polarity of output synch now matches video standard.
- The position of a layer is properly saved in self-contained memories even if it is greater than 32768.
- Images are now displayed properly in backgrounds
- Auxiliary Screens are now displayed properly when input #1 is an SDI/SFP plug set as 1080i during Preconfiguration and has no input signal.
- At startup, Auxiliary Screens without any sources are now displayed properly in the multiviewer.

o Audio

- Audio glitches don't appear anymore on SDI outputs when the internal rate is 59,94Hz.

Known issues:

o SDI 1200p input format (which is a non-SMPTE format) is displayed with large vertical bands.



Products Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquil	
	Aquilon C, Aquilon C+
Date	November 8 th , 2021
Version	2.3.103

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

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Toc	hnica	l Notes:
	HILLA	i ivotes.

DANTE FEATURE:

- To take advantages of functionalities provided by LivePremier:
 - Dante firmware update during LivePremier updater (version 2.2.79 and above)
 - Address MAC reading

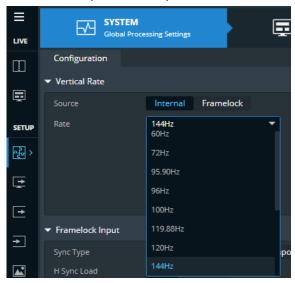
A pre-requisite is to install AW Dante Firmware v3.7.0.16 (embedding Dante Firmware 4.2.0.28, available on Analog Way's website) using the Dante Firmware Update Manager tool before updating the LivePremier firmware.

- When updating to version 2.2.79 and above from a 1.x version, the following drawbacks may be encountered:
 - Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1.
 - Due to the new implementation of Aux. Screens with several layers, the Screens
 Memories for these Auxiliary Screens must be checked after the update as the size of
 the previously existing layer is automatically forced to default 1920x1080.



o Video Processing

Add the support of an internal <u>High Frame Rate</u>: The internal rate can now be programmed with new values: 72Hz, 95.9Hz, 96Hz, 100Hz, 199.88Hz, 120Hz and 144Hz. Please note that with High Frame Rates, only HD/Dual formats can be handled for inputs and outputs in the screens.



- Add the possibility to adjust the <u>Input/Output brightness and contrast with separate</u> RGB settings.



- Add the support of 4:4:4 chroma sub-sampling and 12-bit pixel depth for SDI formats according to SMPTE specifications
- Optimized management for output capacity computation when the Internal rate is 30Hz and a DPH104 configured output delivers 4K30Hz



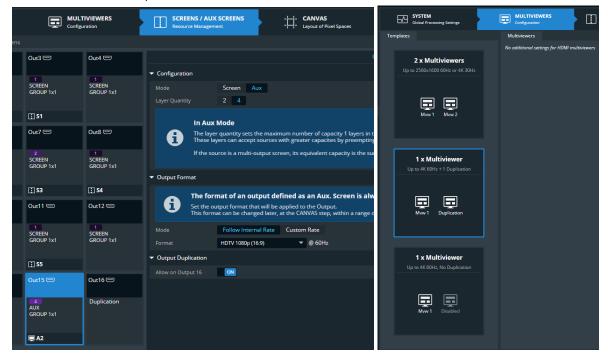
- Add the possibility to adjust the phase shifting of the outputs



- Optimized management of the HDR feature: useless settings are removed from the interface for a better understanding
- Add the possibility to select the HDCP handshake strategy for the Default mode of inputs ("HDCP1.X" only or "HDCP1.X and HDCP2.x") and the Auto mode for outputs (negotiate HDCP1.x or HDCP2.x first)



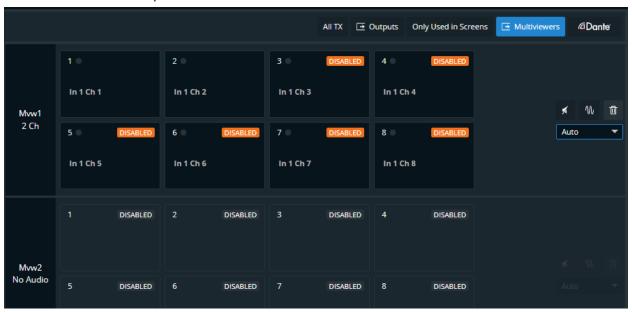
 Duplicate the content of the Leader outputs on the Auxiliary and multiviewer of which the resources have been preempted. Previously, they were disabled with no other possibilities



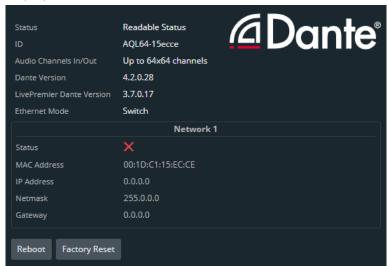


o Audio

- Add the possibility to route audio channels to the multiviewer outputs (up to 8 mono channels)



Display MAC address of the Dante Card in the Web RCS

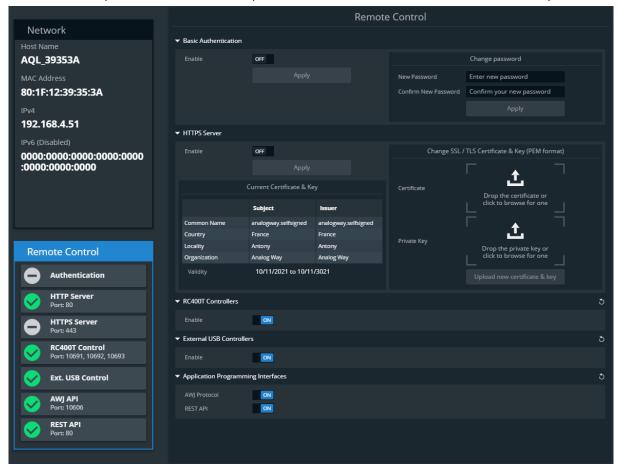


- Add the support of Audio in the HTTP REST API

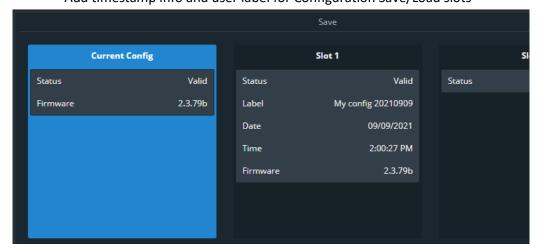


System

- Add the support of HTTPS protocol: for a secured connection to the Aquilon, it is possible to enable an https interface with downloadable certificate and keys

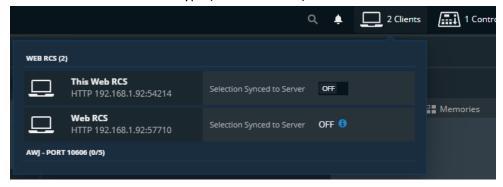


- Add timestamp info and user label for Configuration Save/Load slots

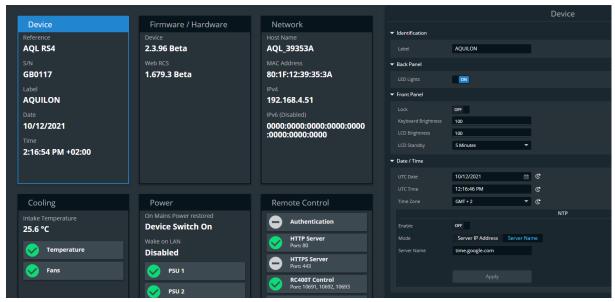




- Add the synchronization status of other Web RCS clients in the popup menu of the Web RCS. Connection type (HTTP or HTTPS) is also available.



- Add the Time Zone management
- Add the support of NTP (Network Time Protocol)



o New hardware support

- Add the support of new input and output Filler cards (ref. ACC-AQL-IN-FILLER and ref. ACC-AQL-OUT-FILLER)
- Add the support of new input and output SDVoE cards (ref. ACC_AQL_IN_SDVOE and ref. ACC_AQL_OUT_SDVOE)

o Front panel management:

- when an alarm is triggered: the Exit/Menu and Enter buttons blink in red until the alarm is cleared

o **RC400T**:

 Management of the joystick for layer sizing/positioning and layer cropping (not to be mismatched with layer masking)



Bug fixes:

o Processing

- Unplugging a frozen source displayed on Program does not cause artefacts anymore.
- The pixel depth of HDMI output signals is not systematically limited to 8bits per component anymore.
- In the background layer, the black color is now real black.
- Layer cropping now works properly for AUX layers containing a Screen Program.
- The position of DPH 104's outputs is restored after rebooting.
- A layer transitioning with a circle effect close to the borders now works.
- Format validity is updated properly when changing the format.
- It is possible to set an output format with a smaller capacity than the one set in Preconfig.
- HDMI output generates properly signal with Samsung LED wall controllers.

o Web RCS

- In the rear panel view, the size of input and output connectors is the same.
- On the rear panel view, connector icons are displayed with the proper size with Chrome browser.
- In the Configuration panel of the dashboard, button size doesn't change size anymore.

o Audio

- Dante Receiver labels are not lost anymore after rebooting
- Dante input audio channel 1.1 now works on Output 1-channel 1 after rebooting

o **EDID**

- Format 1600x1060@60Hz with reduced blanking has a valid and consistent status.
- Deleted custom formats are properly removed from the preferred format list.

o Preconfig

Image Helper contains a consistent list of formats.

o Timers

- On Program, timers work properly and don't remain stuck at 00:00:00 anymore.

Known issues:

o None



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4,
	Aquilon C, Aquilon C+
Date	May 18 th , 2021
Version	2.2.79

Technical Notes:

Warnings:

- LivePremier Updater version 2.2.79 and above can now update the Dante firmware.
 - A pre-requisite is to install AW Dante Firmware v3.7.0.16 (embedding Dante Firmware 4.2.0.28, available on Analog Way's website,) using the Dante Firmware Update Manager tool before updating the LivePremier firmware.
- When updating to version 2.2.79 from a 1.x version, the following drawbacks may be encountered:
 - Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1.
 - Due to the new implementation of Aux. Screens with several layers, the Screens
 Memories for these Auxiliary Screens must be checked after the update as the size of
 the previously existing layer is automatically forced to default 1920x1080.

New features and Improvements:

- o Capture a picture and store it to the Image Library. It is possible to capture:
 - an input
 - a Program output
 - a Multiviewer output
- New Layer Masking: Top-Bottom-Left-Right adjustments to mask the content of a layer without zooming. The settings are including in the layer/screen/master memories and can also be used for creative transitions
- o Master Memories
 - Management of the last loaded Master Memory
 - New Master Memories with self-contained Screen Memories
- o Color management:
 - Modification of output signal settings to decorrelate color encoding from color space.
 - Possibility to force output settings that are not compliant with standards and norms
 - Integration of latest BBC LUT version 1.5
 - Tetrahedral interpolation of color when using 3D LUT for better color accuracy.
- o Dante firmware can be updated directly when updating the LivePremier firmware
- o Support of the new multiviewer output card with DP connectors



- o Improvement of DPH104 support:
 - DPH104 firmware version displayed in the status of the DP output
 - Enabling/disabling of the DPH104 OSD
 - Selection of the DPH104 audio mode:
 - Mirror: all the DPH104 outputs copy the audio channels of its input
 - Split: the eight input audio channels are split over the outputs. channels 1-2 for output 1, channels 3-4 for output 2, channels 5-6 for output 3, channels 7-8 for output4
 - Support of the DPH104 for the new multiviewer output card with DP connectors

o Controllers:

- Improved management of RC400T
 - Synchronization of the selections between RC400T and Web RCS
 - Improved LED button status for heterogeneous selections and assignments
 - Support of multiple RC400T controllers connected to a single device (no user management)
- Support of the new SB124T-3 controller

Bug fixes:

- o Display the "Projector 1200p" format only for SDI input/output plugs
- o When using a DPH104, the 1920x1200 format must not be Projector 1200p but computer 1920x1200
- o Correction of SDI audio problems:
 - Bad clock programming
 - Support of 32kHz and 44.1kHz
- o HDMI deadlock problems
- o When unfreezing an Input, its content seems to rollback one frame
- o Bad management of images capacity with a 30Hz internal rate
- o Autoscale function should be inactive for multiviewer output during boot
- o Level A / Level B menu for SDI outputs should be available only when the format is 3G-SDI
- o An alarm is raised when the power supply units are not powered at the same time

Known issues:

o None



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	March 22 nd , 2021
Version	2.1.89

Technical Notes:

Warning: When updating to version 2.1.x from a 1.x version, the following drawbacks may be encountered:

- Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1
- Due to the new implementation of Aux. Screens with several layers, the Screens Memories for these Auxiliary Screens must be checked after the update as the size of the previously existing layer is automatically forced to default 1920x1080.

Bug fixes:

- o 1080i@59,94Hz output format is not stable.
- o After rebooting the device, the Auto Scale function for Multiviewers Memories is not in the proper state.

Known issues:

o Some HDCP2.2 displays may not work with UHDTV format at 50Hz. A workaround is to use the equivalent VESA computer format 3840x2160 @50Hz.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	February 24 th , 2021
Version	2.1.85

Technical Notes:

Warning: When updating to version 2.1.x from a 1.x version, the following drawbacks may be encountered:

- Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1
- Due to the new implementation of Aux. Screens with several layers, the Screens Memories for these Auxiliary Screens must be checked after the update as the size of the previously existing layer is automatically forced to default 1920x1080.

Bug fixes:

- o The background, with still image, may not display correctly after changing the system's internal rate
- o The total number of layers available in the system can be incorrect for some configurations
- o The management of a group of 3x1 inputs is incorrect
- o Backgrounds do not work when the output format is 1080i

Known issues:

o Some HDCP2.2 displays may not work with UHDTV format at 50Hz. A workaround is to use the equivalent VESA computer format 3840x2160 @50Hz.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	February 9 th , 2021
Version	2.1.82

Technical Notes:

Warning: When updating to version 2.1.x from a 1.x version, the following drawbacks may be encountered:

- Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1
- Due to the new implementation of Aux. Screens with several layers, the Screens Memories for these Auxiliary Screens must be checked after the update as the size of the previously existing layer is automatically forced to default 1920x1080.

New features and Improvements:

o Global improvement of log system (for tech support purposes)

Bug fixes:

- o when only one DP output card is installed, the DPH104 feature is not available
- o With Revision 0 of HDMI input board, the input EDID is not applied properly
- o When an output is rotated, there may be some dead pixels
- o Master Preset cannot be loaded at startup
- o Auxiliary Screen 20 cannot be used
- o It is impossible to affect a live source or a frame in a layer with SB124T-2
- o DisplayPort to HDMI converters by Plugable don't work properly when HDCP is activated.

Known issues:

o Some HDCP2.2 displays may not work with UHDTV format at 50Hz. A workaround is to use the equivalent VESA computer format 3840x2160 @50Hz.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	December 14 th , 2020
Version	2.1.73

Technical Notes:

Warning: When updating to version 2.1.x from a 1.x version, the following drawbacks may be encountered:

- Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1
- Due to the new implementation of Aux. Screens with several layers, the Screens Memories for these Auxiliary Screens must be checked after the update as the size of the previously existing layer is automatically forced to default 1920x1080.

New features and Improvements:

- o Support of 2-sample interleave division (2SI / SMPTE 425-5:2019) for Quad 3G-SDI inputs.
- o Support new ratios **x0.5** and **x2** for frame-locking the internal rate of the device.
- o **Improved latency** when the system's internal rate is frame-locked. The latency of frame-locked sources is about **one frame**.
- o New HDMI output setting to adjust the **DDC clock** if necessary.
- o Support of new formats for DPH104 in slicer mode:
 - Quad 1920x1200 @50/59,94/60Hz
 - Dual 1920x2160 @25/30/50/59,94/60Hz
- o Reordering of the EDID table to prioritize formats such as 4096x2160.
- o Display and support of EDID extensions (no edition):
 - DisplayID
 - CEA 861-G
- Support of HDMI 2.0 over fiber I/O cards ref ACC-AQL-IN-HDMI-FBR and ACC-AQL-IN-HDMI-FBR
- o In the mobile version of the Web RCS, add the possibility to load Master Memories.

Bug fixes:

- o HDMI outputs may not be compatible with some HDMI Fiber Extenders.
- o Input signal 1200p is not correctly decoded on SDI plugs.
- o input format 1035i is not detected properly on SDI plugs.
- o The Background content of an output is not displayed properly when an AOI is applied to this output.
- o When the Screen Memory bank is full and « auto select empty screen memories » is used to save a Master Memory, then the Web RCS is not displayed properly.



- o For SDI inputs with audio channels routed to Dante output channels, unplugging the SDI input causes long term audio artefacts on Dante channels.
- o An image slot assigned with a timer should never be out of capacity.
- o Input test patterns are not displayed properly for input groups when the content aspect ratio is different from Native.
- o When an image is deleted from the library, its name is still displayed in the library.
- o Screens using soft-edge blending with Backgrounds are not displayed properly.
- o Various minor bugs

Known issues

- Some HDCP2.2 displays may not work with UHDTV format at 50Hz. A workaround is to use the equivalent VESA computer format 3840x2160 @50Hz.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	July 31st, 2020
Version	2.0.231

Technical Notes:

Warning: When updating to version 2.0.23x from a 1.x version, the following drawbacks may be encountered:

- Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1
- Due to the new implementation of Aux. Screens with several layers, the Screens Memories for these Auxiliary Screens must be checked after the update as the size of the previously existing layer is automatically forced to default 1920x1080.

Bug fixes:

- o 12G-SDI output signal is not stable at 29.97Hz and 23.94Hz
- o SDI outputs jitter is too important with 100/1001 internal rates (59,94Hz, 29.97Hz and 23.94Hz)
- o Result of HDR to SDR conversions may be slightly too bright
- o When in group mode, the SMPTE test pattern must be displayed using the HDR configuration of the plug.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	July 27 th , 2020
Version	2.0.228

Technical Notes:

Warning: When updating to version 2.0.228 from a 1.x version, the following drawbacks may be encountered:

- Any output configured with a capacity 2 but delivering a dual-resolution format (up to 2560x1600 @ 60hz) will have its capacity automatically changed to 1
- Due to the new implementation of Aux. Screens with several layers, the Screens Memories for these Auxiliary Screens must be checked after the update as the size of the previously existing layer is automatically forced to default 1920x1080.

New features and Improvements:

- o HDR support and real time SDR/HDR conversion
 - Available for any input, image and output
 - Conversion allows:
 - To display any source on any display whatever their dynamic ranges are.
 - To display SDR and HDR contents in the same screen
 - To switch layers' content (including cross-transitions) whatever their dynamic ranges of the sources are
 - First select in the Pre-Configuration>System step if you want to handle HDR content and the internal profile you want to use for processing SDR/HD10/HLG BBC. If you choose HDR10 or HLG BBC, all the HDR settings appears in the Inputs, Outputs and Images pages:



Figure 1: HDR feature pre-configuration

- Then for each input, image and output indicate the profile settings. By default, the Auto mode is selected and achieved processing based on EDID and info-frames data.





Figure 2: Example of HDR setting for Inputs

Management of Input and Output groups

- Support of content up to 4K over 1, 2, 3 or 4 cables and process it as one single stream
- Save resources:
 - One single 4K content spread over 4 HD outputs
 - Get more layers optimizing the processing pipelines for large displays using more than 4HD outputs
- Easily work using the Leader input or output



Figure 3: Example of 1x2 output grouping



Figure 4: Example of 2x2 input grouping





Figure 5: Example of grouped input display



o Layers available in Auxiliary Screens

- Each Auxiliary output screen natively two HD layers or on 4k layer per aux. output.
- Preempt resources of next adjacent outputs to get up to 8 layers in a single aux. output. Outputs whose resources preempted are disabled.
- Useful for DSM application



Figure 6: Example of auxiliary

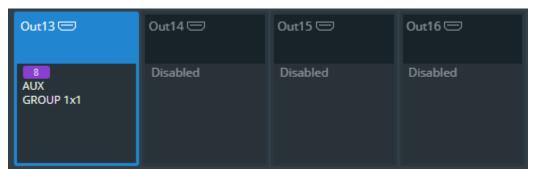


Figure 7: Example of an auxiliary output preempting the next 3 outputs

- o On board timer available in in screen layers and aux. layers
 - New 4th timer
 - Assign your timer to an image resource
 - Use this image in any screen layer and aux. layer



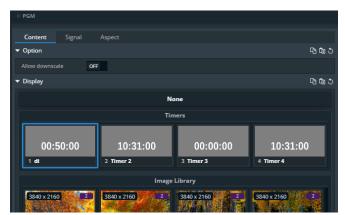


Figure 8: Selecting a timer as an Image source

o Layer memories

- Save some or all the properties of a layer as a template
- Apply this template to any layer selection with a simple click or drag&drop
- Include category filters (source, position, size, cut&fill, border, transitions, ...)
- Supported by RC400-T

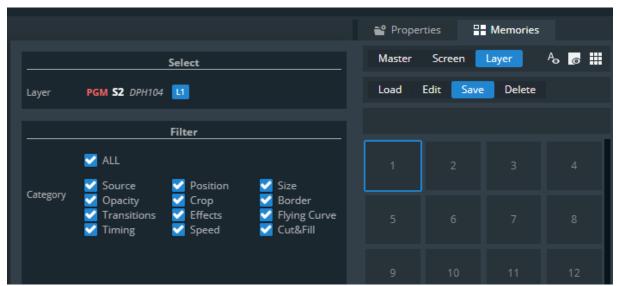


Figure 9: List of filters when saving a Layer memory

o New 'TAKE filter' management

- Loading a Master Memory automatically activates/arms in the TAKE Filter the screens that have been saved with this memory, so they are part of the next transition
- When saving a Master Memory, the screen selection to be saved is automatically loaded according to the screens currently armed in the TAKE filter

o New Management of Background

- The same input can be used as Background in all compatible outputs

o Screen Patterns

- Patterns now displayed over multi-output screens
- Include a new 'Geometric' pattern



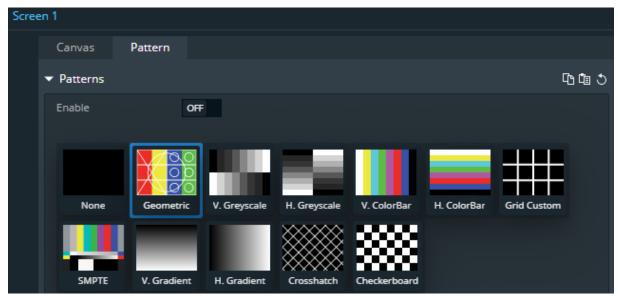


Figure 10: List of Screen patterns

- o Up to 64 widgets per multiviewer outputs
 - Possibility to display all your screens and inputs at the same time on a single display
- o New Basic OSD mode for multiviewers'widgets
 - Title only to save space
- o 4K30Hz managed with capacity 1 when Internal rate is 30Hz
 - 4K30Hz is now processed with
 - More 4K30Hz outputs available for Program
 - More layers available to handle 4K30Hz inputs
- O HDCP 2.2 support, in addition to HDCP 1.4
 - For HDMI and DisplayPort inputs and outputs.
 - Supports conversion from HDCP 1.4 to HDCP 2.2
- o 90° step rotation of output groups/DPH104
 - Add a 1-frame latency
 - Enable the rotation of output group in the page SETUP>Preconfig>Screens/Aux.Screens

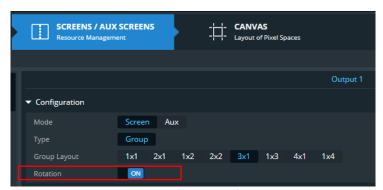


Figure 11: Enabling the rotation of an Output Group

- In the page SETUP>Preconfig>Canvas, select the group or DPH 104 in the tree view and adjust the rotation angle. This rotation is applied to each output individually.

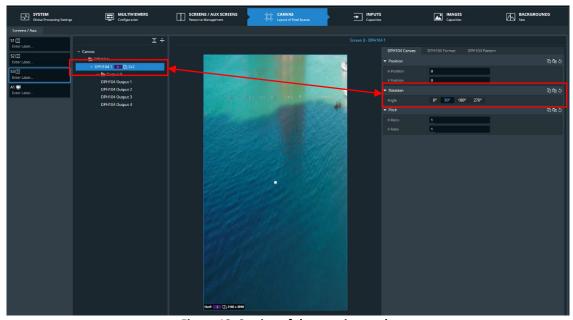


Figure 12: Setting of the rotation angle



o Management of level A & B for outputs delivering 3G-SDI formats

When the output format is HDTV 1080p at 60Hz, Level A or B can be selected

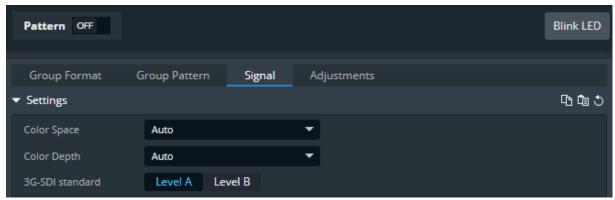


Figure 13: Setting of 3G-SDI level A/>B

o Support of DPH104

- Configure your output in DPH104 Slicer mode
- Select the outputs layouts
- Select the output format used for all the DPH104's outputs
- Using 16 x DPH104on a full C+ Aquilon, get up to 64 Full HD outputs for your Program.

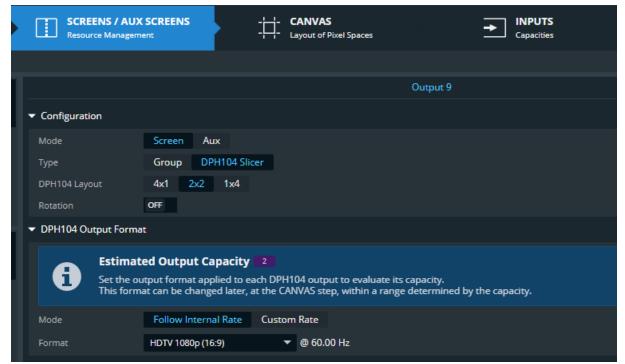


Figure 14: Settings of the DPH104 Slicer mode

Support for forthcoming HDMI2.0 over Optical Fiber I/O cards (end of Q3)

- Four SC multimode fiber optical 4K60 4:4:4 ports per I/O card
- HDCP 2.2, embedded audio (up to 8 channels) and HDR
- Up to 600m/1900ft at 4K60Hz 4:4:4 and up to 2500m/8200ft at 1080p60Hz 4:4:4.



Web RCS's new features and improvements:

- o Improved Input EDID Management
 - Change directly the preferred format in the input section. No need to do it the library
 - Edit the EDID label directly

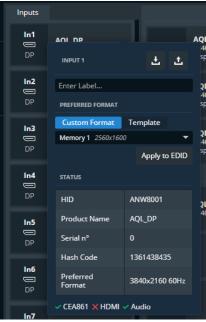


Figure 15: Input EDID settings

- o New SET>Preconfig>Canvas page
 - Add the management of Output Groups and DPH104
 - New tree view for a better understanding of what is selected



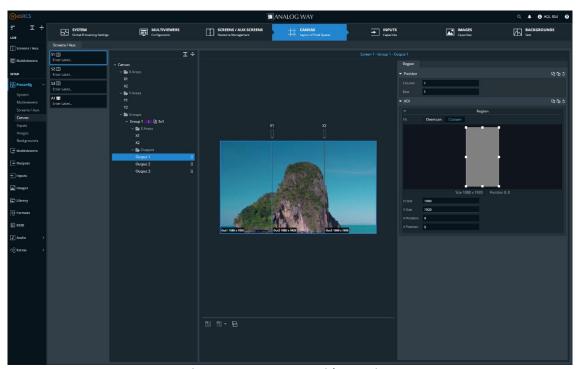


Figure 16: Canvas page with tree view

o Background creation and management simplified

- Not necessary anymore to declare an input or a still image as a background
- All settings are now available on a single page
- Background sets simply updated by dragging & dropping sources into the outputs

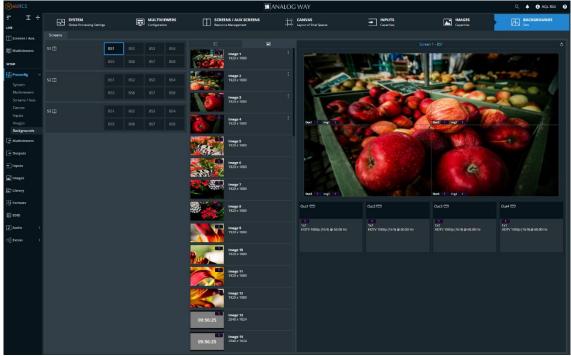


Figure 17: new Canvas page



o Web RCS screens workspace can be easily rearranged and resized

- Rearrange your screens and aux. screens with a simple drag and drop move
- Resize the width of a screen or aux. screen to better match reality
- Adjust the height of the workspace to give more space to the Preview or Program.

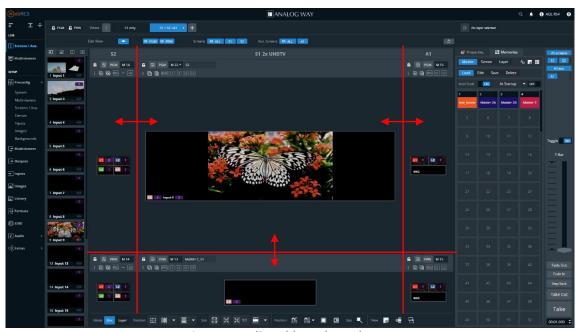


Figure 18: Adjustable Web RCS layout

o Web RCS password protection

- Restrict access to the Web RCS via a password
- Password can be customized (by default, it is the device MAC address)
- Protection can be disabled from the front panel menu
- Available for desktop and mobile version



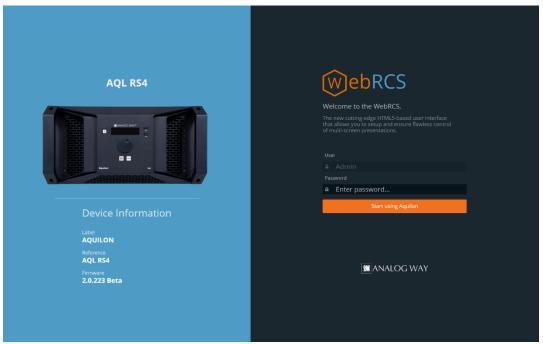


Figure 19: Web RCS protection page

o View Memories

- Easily create layouts displaying different screens and aux. outputs, and save them in view memories
- User can instantly switch from one view to another by clicking on the corresponding view memory button at the top of the page



Figure 20: Tool bar for View Memories

o Memories tabs

- Add a background color for the memory buttons to better arrange and identify them
- Change the layout of the memory buttons to improve readability: 1, 2 or 4 columns
- Users can now hide empty memory buttons and/or memory labels

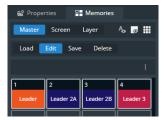


Figure 21: Memories Filters & Colors

Known limitations & constraints:

o Input Groups



- All the inputs of a group must receive signals with the same format. All non-compliant inputs are blackened.
- The position of the inputs in a group is determined by the group (2x1,1x2,2x2...)
- All the input settings are common to the group (HDCP/HDR, color settings, Pattern, Crop, Keying).

o HDR

- Color settings may not have the expected linear behavior.
- Soft-Edge blending curves are not linear in HDR mode. Using the projectors blending curves is recommended.
- Keyed inputs may be degraded in HDR mode.

o OUTPUT GROUPS and DPH104

- All the output settings are common to the group (HDCP/HDR, color settings, Pattern,).
- Rotation of outputs with capacity 2 disables the adjacent output
- Soft-edge blending curves are available for outputs groups but not for the sub-outputs of DPH104. Using the projectors blending curves is recommended.

o PATTERN

- Output test patterns are generated using the internal profile. If the output is converted
 to another profile, the pattern may not be compliant with the SMPTE standard.
 To obtain "Broadcast" results, the internal profile must be set to SDR and the internal
 color space must be YCbCr 4:4:4 ITU-R.BT709 Limited
- Only Raster Patterns contains transparency.

o TIMER

- There is a 500ms delay between a timer displayed on a multiviewer output and the same timer displayed on a Screen or an Auxiliary Screen.

Known issues:

o 12G-SDI output signal is not stable at 29.97Hz and 23.94Hz



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	May 12 th , 2020
Version	1.2.11

Technical Notes:

New features and Improvements:

o None

Web RCS's new features and improvements:

o None

Bug fixes:

- Working with RC400T can crash the Web RCS server



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	April 27 th , 2020
Version	1.2.10

The version (s) indicated here above has (have) been tested and validated by the QA Department.	

Technical Notes:

New features and Improvements:

- o Ability to load a Master Memory on Program and Preview when the device starts.
- o Support of the RC400T event controller (requires RC400T firmware 1.00.03 minimum)

Web RCS's new features and improvements:

o None

Bug fixes:

- HDMI outputs don't work with specific external devices due to low level negotiation failure



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	March 11 th , 2020
Version	1.1.36

Technical Notes:

New features and Improvements:

o None.

Web RCS's new features and improvements:

o None

Bug fixes:

- SDI outputs may deliver content with artefacts
- DP output signal doesn't work with specific display systems.



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	February 24 th , 2020
Version	1.1.32

Technical Notes:

New features and Improvements:

o None.

Web RCS's new features and improvements:

o None

Bug fixes:

- Input test patterns don't work when the input doesn't receive any signal
- Input test patterns don't work with SFP inputs
- Keying function doesn't work with SFP features
- The device doesn't start if the power supply units are connected to the mains one at a time
- The Web RCS fails to start when the device contains many Master/Screen memories (>100)



Products	Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4,
	Aquilon C, Aquilon C+
Date	December 17 th , 2019
Version	1.1.29

Technical Notes:

New features and Improvements:

- o Support for new Aquilon RS alpha
- o Support for new I/O boards with 4x SFP-12G SDI
- o New default 50Hz EDIDs in the library (HDMI 1920x1080 50Hz, HDMI 3840x2160 50Hz, DP 1920x1080 50Hz and DP3840x2160 50Hz)

Web RCS's new features and improvements:

o **Pre-configuration Section**

- The capabilities of inputs, images, outputs and layers have been renamed to 1, 2, 4, 6 and 8 with dedicated help sections to explain what each capability means in the context
- New tool to ease the configuration of soft-edge and video/LED walls display applications
- New tool to quickly enable/disable HDCP for all inputs, outputs and multiviewers

o Setup section

- In inputs, outputs and multiviewers pages, all the links on the rear panel view of the device are available for fast page changing
- New help texts explaining how to set up a custom output format
- In the EDID page, AW EDIDs are now displayed at the top of the page, in a specific section called 'Default EDID'
- The naming and classification of the list of output formats has been improved.

o Live Section

- Layers
 - New toolbar to quickly align / center / resize layer(s)
 - New button to quickly enable/disable the visibility of empty or pre-empted layers
- Memories
 - Tab of Master Memories now appears first in the list.
 - New button to reorder memories in the default order (increasing index)

- Improve interface for labelling memories
- Tally indicators for Screen Memories
- Visual indicator for Memories indicating a specific filter has been registered
- Possibility to hide empty presets
- When recording a master preset from the Program or Preview and the selected screens are already loaded with a screen preset, the default memory selected for each screen is now the current screen memory

- Layout creation

- New tool for Multiviewers to easily create a scalable widget mosaic
- New tool for Screens to easily create a scalable layer layout
- New Cascading layout now cascades all the layers over Layer 1 set full screen

o Notifications:

- Notification issued when the system is configured as Framelocked and the Framelock source is lost.
- Notification issued when one of the power supplies is missing or not powered.
- New management and notifications of temperature alarms
- Notification center is always accessible, even if all notifications were read.

o Miscellaneous

- Help page now points to the current product page of Analog Way's website
- Contact Us page new layout

Bug fixes:

o **Processing**

- HDCP random disconnections
- HDMI DDC error
- Signal loss of HDMI output plugs
- DP Input format 1080p@50Hz not detected properly
- DP Output 4:2:0 sends wrong data
- Custom format rate must be limited at 60Hz to be useable
- 4K Live Inputs strobe on an Aux Screen when they are half cropped
- Input cropping doesn't consider the content ratio
- Layer fill option choice don't affect stills
- Aux Output can't be used as reference of input/image used in backgrounds
- Management of preempted layers when an "out of capacity" is encountered
- Black areas are not handled properly
- Blending is not applied properly
- Using Master/Screen Memories with enabled Auto-scale can generate non integer layer position and size
- Resetting the widget position on the multiviewer sets the value to -32768



o **EDID**

- No information is displayed when an invalid EDID is downloaded
- Allow to add an EDID directly in the EDID banks using a bin file
- Formats whose width is 4096px shouldn't be allowed in EDID templates as they are not supported

o Web RCS

- if an invalid EDID is imported in a slot, this slot can't be filled with another EDID anymore
- The upload button is not visible on an empty EDID slot (impossible to download an EDID file)
- Cut and Fill icon doesn't stay in the layer
- When the system configuration is extracted, the parameter area must keep its position and size.
- "On Program" and "On Preview" tallies are not raised for Inputs on used in backgrounds
- Program/ Preview interface doesn't display layers correctly after specific resize
- "Valid only" feature doesn't work with the management of Memories
- Crop status is not updated properly
- The crop settings have an unexpected behavior when an image is used in a background set
- Front panel unlock doesn't work when reset is applied to the Front Panel Section
- Impossible to delete a config memory slot

o System Configuration

- Modifying the system time is modified, the current count up or down are lost
- Wake on LAN settings are lost after reboot

o Front Panel

- Folder names containing special characters can't be accessed from the front panel
- Update phone number for APAC technical support
- Pressing a very long time ENTER or EXIT keys should behave as Press and Hold

Known limitations

- Test patterns currently only available per output
- Layer anchor point currently defined as center of layer
- Output rotation not currently available
- HDCP2.2 not yet supported
- Capture input to store as frame not currently available
- Keyboard shortcuts not currently available except the "delete" key
- Offline simulator not yet available
- Support 4K60p signal as double or quad plugs not supported yet

FIRMWARE RELEASE NOTE



- WebRCS is currently optimized to be used on a Google Chrome browser (any platform). Other browsers, such as Firefox, Safari, or Opera aren't currently fully supported



Products	Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	October 13 th , 2019
Version	1.0.47

Technical Notes:

Updating to firmware version 1.00.47 from older version

- Due to firmware update of very low-level components, the update time to 1.00.47 from an older version is long and the unit may seem stalled. Please DO NOT POWER OFF the unit as long as it has not rebooted.

Bug fixes:

- Color management on SDI outputs (HD/3G/6G/12G formats)
- Random problems of card detection at the device boot

Known limitations

- Screen Canvas layouts currently require manual setting of details include setting blending parameters by each edge
- Test patterns currently only available per output
- Layer layout tools to quickly define layer positions not available yet
- Layer anchor point currently defined as center of layer
- Output rotation not currently available
- HDCP2.2 not yet supported
- Capture input to store as frame not currently available
- Keyboard shortcuts not currently available except the "delete" key
- Offline simulator not yet available
- Further improvements of Screen and Layer resource allocations ongoing
- Support 4K60p signal as double or quad plugs not supported yet
- WebRCS is currently optimized to be used on a Google Chrome browser (any platform).
 Other browsers, such as Firefox, Safari, or Opera aren't currently fully supported

Known issues

- 1200p output format not properly supported yet (SDI only)



Products	Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon C, Aquilon C+
Date	October 2 nd , 2019
Version	1.00.40

Technical Notes:

Updating to 1.00.40 from older firmware version

- Before updating to 1.00.40, please backup the current configuration (needed in case you should downgrade to an older firmware version later)
- Apply the firmware 1.00.40 (from the front panel USB or WebRCS) -> your current configuration will be kept and automatically upgraded
- Once the new firmware has been successfully applied, please backup your configuration (upgraded to 1.00.40)
- DON'T import the configuration file exported from an older firmware version (it won't be converted and some settings might be lost)
- You're done!

Initial published release

- Support for Aquilon RS1, RS2, RS3, RS4, C, C+
- Support for HDMI2.0, DP1.2, and SDI-12G input and output connector cards
- Manage 4K, DL and 2K inputs, outputs, and layers
- Create and operate Screens and Auxiliary outputs
- Configure layers as Mixers or Split layers, defined per Screen
- Screen Canvas Layout can be freely configured
- Pixel pitch management per output available
- Configure and operate Multiviewers with 24 widgets per screen
- Create and load Screen Presets, Master Memories, with filters by layer, attribute, screen, etc.
- Manage TAKE per Screen
- Upload and display still images
- Audio Dante™ available: de-embedding / re-embedding/ routing
- SB80-2 and SB124T-2 supported via direct USB connection (one controller max)
- Support custom formats up to 8196px in width
- EDID management supported up to 4K
- HDCP 1.x supported
- HTTP REST API available with documentation



- AWJ JSON protocol updated (may affect existing implementations, contact support for more details)
- Import/Export backup file from WebRCS or front panel

Known limitations

- Screen Canvas layouts currently require manual setting of details include setting blending parameters by each edge
- Test patterns currently only available per output
- Layer layout tools to quickly define layer positions not available yet
- Layer anchor point currently defined as center of layer
- Output rotation not currently available
- HDCP2.2 not yet supported
- Capture input to store as frame not currently available
- Keyboard shortcuts not currently available except the "delete" key
- Offline simulator not yet available
- Further improvements of Screen and Layer resource allocations ongoing
- Support 4K60p signal as double or quad plugs not supported yet
- WebRCS is currently optimized to be used on a Google Chrome browser (any platform). Other browsers, such as Firefox, Safari, or Opera aren't currently fully supported

Known issues

- 1200p output format not properly supported yet (SDI only)