

INTRODUCTION

AW VideoCompositor for Alta 4K

V1.0.0

Developed by



ANALOG WAY[®]
Pioneer in Analog, Leader in Digital

Description

AW VideoCompositor for Alta 4K allows developers to control with minimal programming the advanced features of any Alta 4K presentation system and build innovative control solutions using a single Crestron® touchscreen.

AW VideoCompositor for Alta 4K provides outstanding functionalities including visualization in real time of the screens with layer positions, display of sources snapshots refreshed automatically, layer source management through drag and drop, capability to change position and size of a layer with the flick of a finger, multiviewer mosaic configuration, advanced audio routing, etc.

Package content

The package contains the following components:

- The Smart Graphics™ module (named AW Multi Display Composer). It can be installed easily via the Windows setup application provided: *AW_SmartGraphicsPackage_5.1.0_setup.exe*
- The Crestron driver for the Alta 4K series (for 3-series and 4-series Crestron processors or a VC-4 Crestron Virtual Control Server Software)
- A SIMPL+® example program that demonstrates the features supported by the driver
- A XPanel project running with the SIMPL+® sample program provided
- Help files in English

Key features

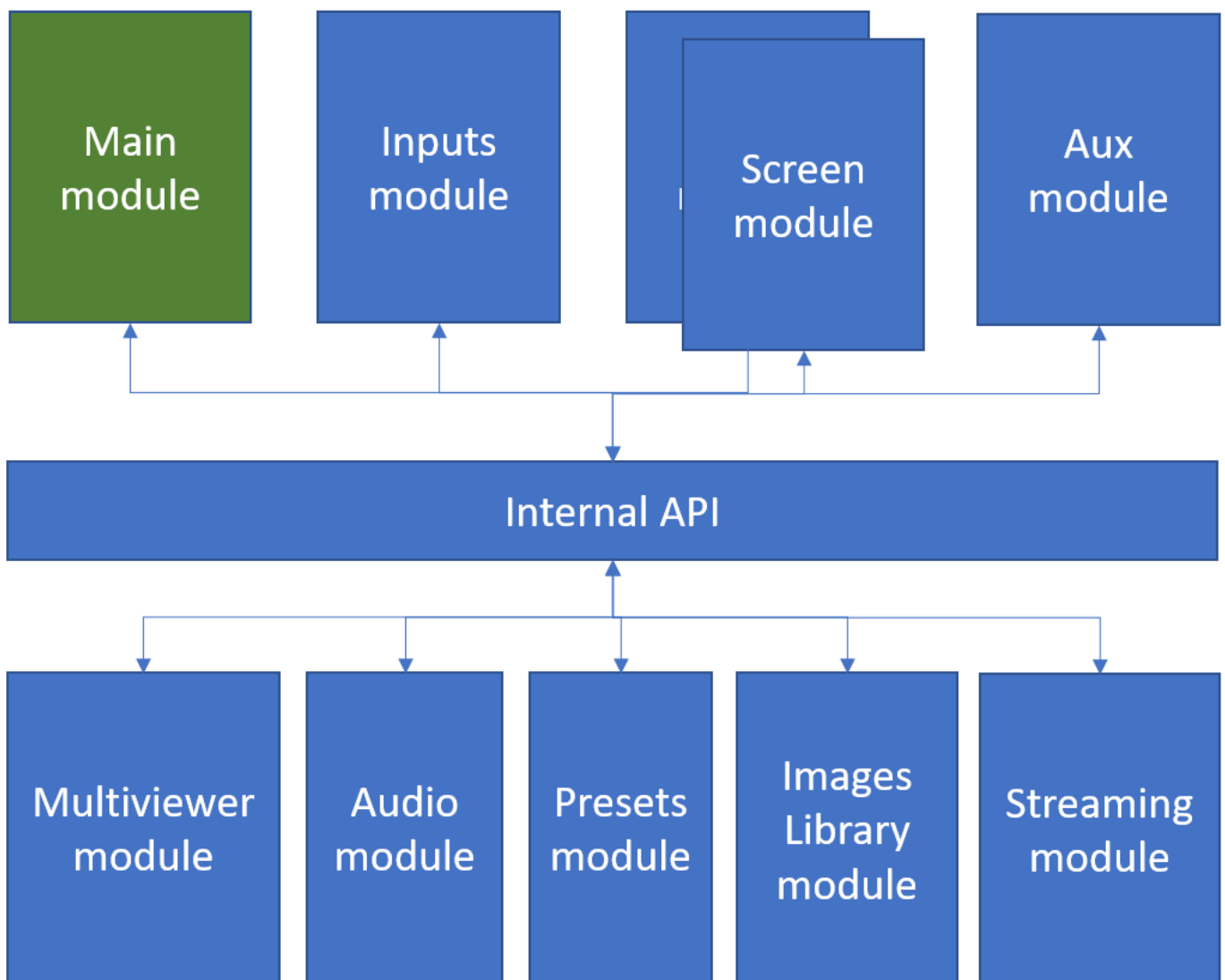
- Visualize your screens with layers size and position (PRG or PRW)
- Visualize your auxiliary output and easily select the source to display
- Use the touchscreen to resize or adjust layer position
- Visualize live sources with their dynamic thumbnail
- 2 modes for source selection: Drag & Drop or Select & Click
- Recall screen/aux memories or master memories and start transitions (Take)
- Change screen background instantly
- Configure multiviewer mosaic with a simple flick of the finger
- Route de-embedded audio channels or Dante input audio channels to your video outputs or Dante output audio channels
- Control livestreaming
- The Video Compositing Smart Graphics™ module can be customized to match the look and feel of your application
- The Video Compositing Smart Graphics™ module can be configured to match your exact screens configuration (canvas size, layers, ...)

Requirements

- Any Analog Way Alta 4K live presentation switcher (Zenith 100 or Zenith 200) or the Alta 4K Simulator
- A 3-series or 4-series Crestron processor with Ethernet connection or a VC-4 Crestron Virtual Control Server Software
- Any Crestron XPanel compliant display

Driver Modularity

The driver provides several functional modules (**Main** module is required; the others are optional) that can be combined according to your needs. You can load the example provided to see how they are structured/built.

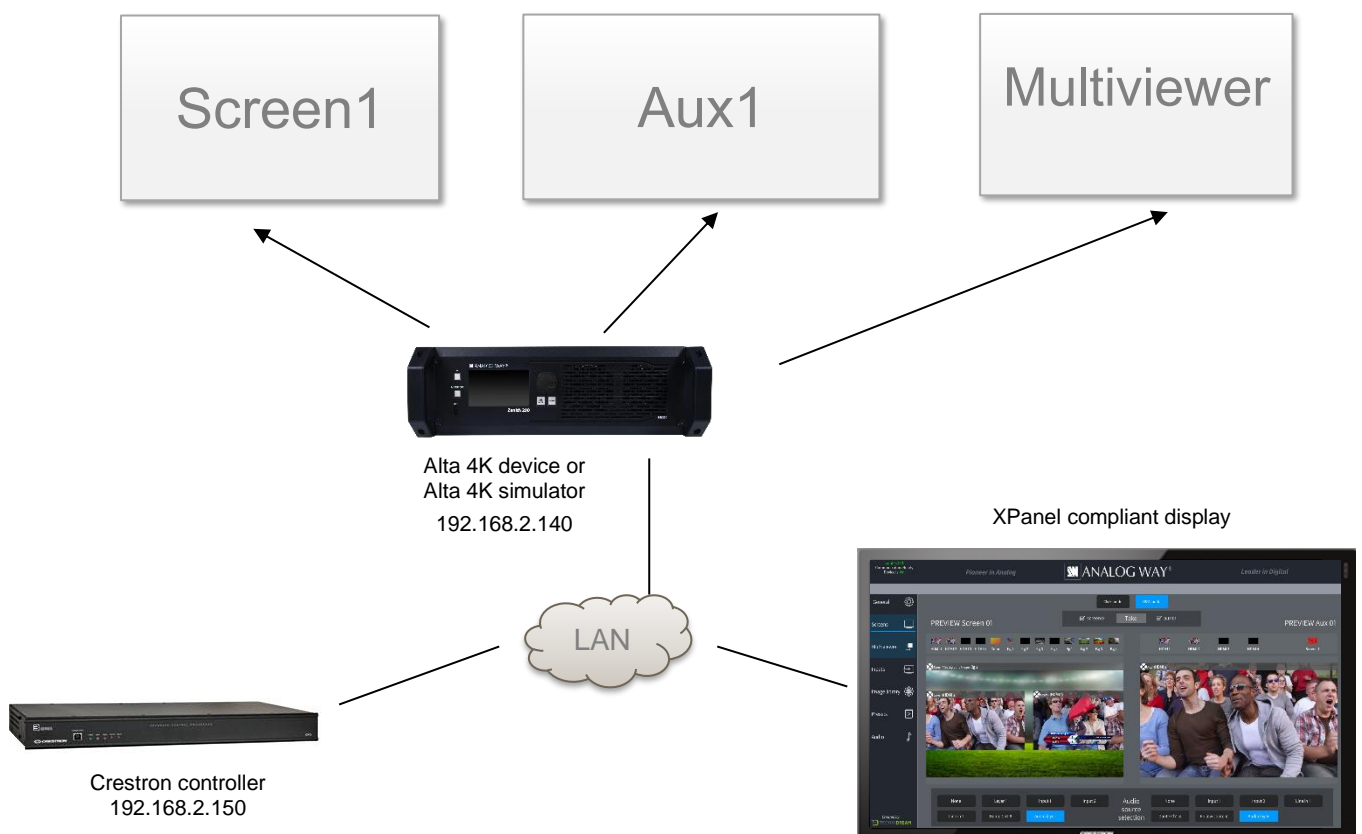


Recommended software versions

Software	Versions
Alta 4K firmware	1.0.0 or above
Alta 4K Simulator	1.0.0 or above
SIMPL Windows	4.14.31 or above
VPro-e	6.2.02.08 or above
Smart Graphics™	2.17.01.01 or above
Device database	200.50.001.00 or above
Crestron database	203.05.001.00 or above
Simpl+ cross compiler	1.3 or above

Configuration and settings to run the example

The example provided within the package has been designed to control an Alta 4K live presentation switcher configured with one Screen, one Auxiliary output and one Multiviewer. Before running this sample, please make sure your configuration (as well as the IP addresses) matches the diagram below:



The example also can use up to 10 Screen memories, AUX memories, Master memories and Multiviewer memories that should be created with the Web RCS before running it.

- Screen 1 contains 1 background layer + 2 layers for live inputs + 1 still image foreground layer
- AUX 1 can be used to display screen 1 program or any of the 10 inputs (scaled)

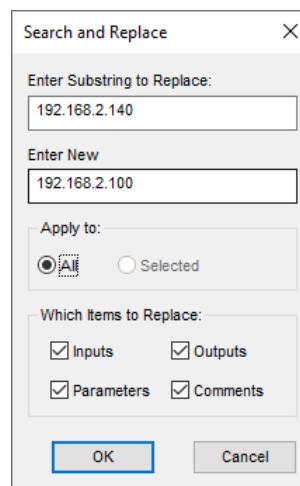
- Multiviewer is used to preview sources or screen 1 (PGM and PRW). 10 widgets can be controlled by the demo application

Of course, you can reuse this example as much as necessary to implement your own solution.

Customize the IP address of the Alta 4K device

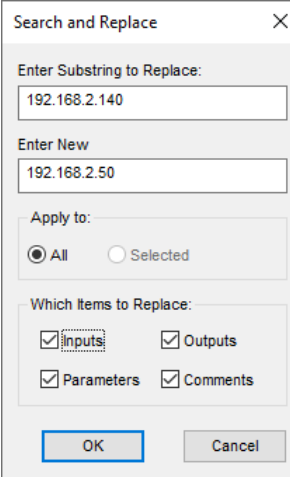
Before running the demo program to control your own Alta 4K live presentation switcher or your Alta 4K Simulator, it is important to customize some settings regarding the Alta 4K device that will be controlled:

- Open the Alta 4K SIMPL demo program (*Alta4K_Crestron_VC_Demo.smw*).
- If the program will control a real Alta 4K device, then select the *S-1: Init* folder and press F9 to replace the default IP address (192.168.2.140) with your Alta 4K device IP address (ex. 192.168.2.100):



Then go to end of the first module *S-1.1 : Multiple Serial Send* and modify the default Alta 4K MAC address with the one from your Alta 4K device (for ex. 80:1F:12:40:59:CE).

- On the contrary, if you plan to control the Alta 4K Simulator instead of a real Alta 4K device, then select the *S-1: Init* folder and press F9 to replace the default IP address (192.168.2.140) with the IP address of the computer running the Alta 4K Simulator (for ex. 192.168.2.50):



Search and Replace

Enter Substring to Replace:
192.168.2.140

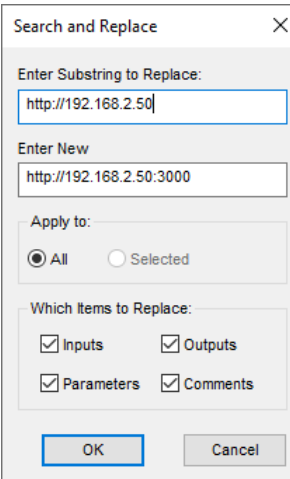
Enter New
192.168.2.50

Apply to:
 All Selected

Which Items to Replace:
 Inputs Outputs
 Parameters Comments

OK Cancel

Press F9 again to replace the default Alta 4K device access URL (<http://192.168.2.140>) by the Alta 4K Simulator access URL available on TCP port 3000 (for example <http://192.168.2.50:3000>):



Search and Replace

Enter Substring to Replace:
http://192.168.2.50

Enter New
http://192.168.2.50:3000

Apply to:
 All Selected

Which Items to Replace:
 Inputs Outputs
 Parameters Comments

OK Cancel

Then go to end of the first module *S-1.1 : Multiple Serial Send* and modify the default Alta 4K MAC address by the one from the Alta 4K Simulator (always 11-22-33-44-55-66).

- Recompile and upload the program on a Crestron controller.

Do not forget to update the connection parameters when launching the demo Xpanel to access your Crestron controller. By default, the Xpanel application will try to connect on 192.168.2.150.

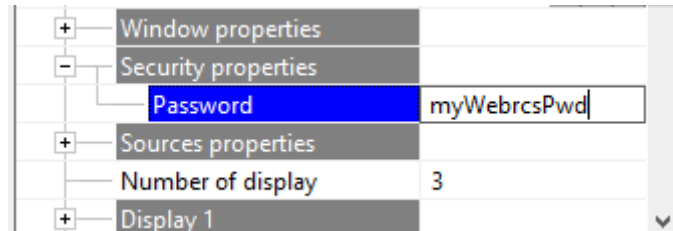
License

Before using **AW VideoCompositor for Alta 4K** you need to purchase a license. For pricing information, please contact your Analog Way sales representative or reseller. The license key can be entered on the main page of the XPanel example main page (but will be lost after a reboot of the controller) or preferably directly in the Crestron driver (parameter of the Alta_Main_VC module).

If you are only using the Alta 4K Simulator to test your program, then you can use the license **EA0F-07DD-70CA-7DDE-A9F3**.

Authentication

When authentication is enabled in WebRCS, it is necessary to add the new password in each **AW VideoCompositor** in the VTPro-e project, so as to be able to retrieve snapshots and images.



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