INTRODUCTION

AW VideoCompositor For LivePremier™

v4.0

by

TECHNIDREAM
LA MAÎTRISE DES TECHNOLOGIES CONNECTÉES

ANALOG WAY®

Description

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

AW VideoCompositor for LivePremier™ provides outstanding functionalities including visualization in real time of the whole scene 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, etc.

Package content

The package contains the following components:
- The Smart Graphics™ module. It can be installed easily via the Windows setup application provided:
  AW_SmartGraphicsPackage_5.3.0_setup.exe
- The modular Crestron driver for the LivePremier™ series
- A simple example SIMPL+® program and XPanel project, that demonstrates the different features supported by the driver in the context of a **single LivePremier configuration**
- A more complex SIMPL+® program and XPanel project, that demonstrates the different features supported by the driver in the context of a **Linked LivePremier configuration**
- Help files in English

Key features

- Visualize your screens/aux with layers size and position (PRG or PRW)
- **Manage multiple screens and/or auxiliary outputs using only one source list**
- 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
- Control built-in timers
- Recall Screen Presets, Master Presets or Layer Presets and start seamless transitions
- Change screen background instantly
- Configure the multiviewer outputs mosaic with a simple flick of the finger
- Route de-embedded audio channels or Dante input audio channels to your video outputs
- 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 (pixel canvas, layers, ...)
- Compatible with 3-Series and 4-series Crestron® control systems with Ethernet connection
- Compatible with any LivePremier™ live presentation switcher (Aquilon RS alpha, Aquilon RS1, Aquilon RS2, Aquilon RS3, Aquilon RS4, Aquilon RS5, Aquilon RS6, Aquilon C, Aquilon C+ and Aquilon Cmax)
 ...

Requirements

- Any Analog Way LivePremier™ live presentation switcher or the LivePremier™ Simulator
- A 3-series or 4-series Crestron processor with Ethernet connection
- A Smart Graphics™ compliant panel such as TSX Series (TSW, TST, …), TSD2020, TPMC-V Series (V12, V15, V24), DGE-1, DGE-2, Smart Graphics™ XPanel and Web XPanel, windows surface pro (windows 8.1 with adobe air 3.5). Apple iPad, Apple iPhone and Android are not supported yet
  Note: Due to limited performances, TSX panels are not recommended to handle many layers, especially if dynamic snapshots are required in the user interface.

Recommended software versions

Software	Versions
LivePremier™ firmware	4.0.x or above
or	
LivePremier™ Simulator	4.0.x or above
SIMPL Windows	4.11.06 or above
VTPro-e	6.2.00.03 or above
Smart Graphics™	2.15.04.00 or above
Device database	200.05.001.00 or above
Crestron database	201.00.004.00 or above
Simlp+ cross compiler	1.3 or above

Driver Modularity
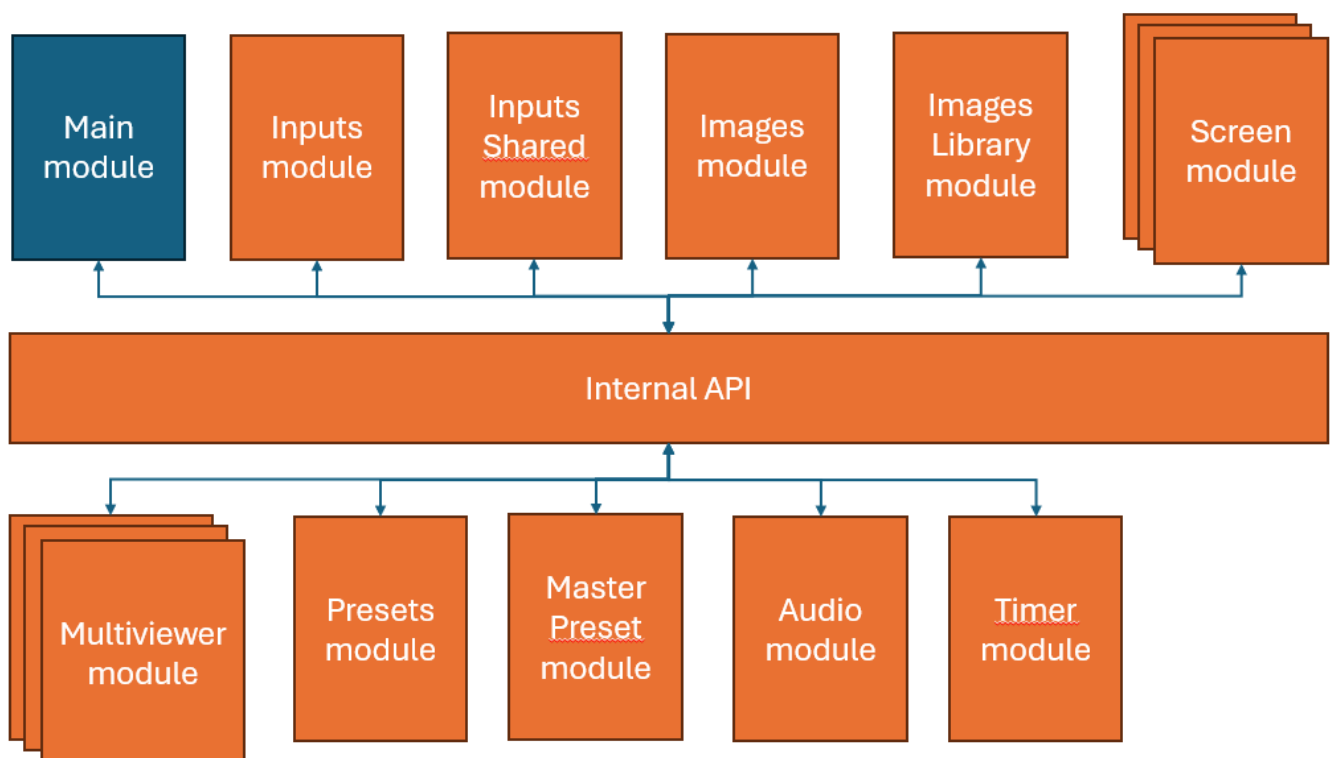
Example 1 (single device): Configuration and settings

The first example provided within the package has been designed to control a single LivePremier™ live presentation switcher with two 4K Program screens (Screen 1 and Screen 2), one 1080p Auxiliary output (Aux 1) and one 1080p Multiviewer (out #1). Before running this example, please make sure your configuration (as well as the IP addresses) matches the diagram below:
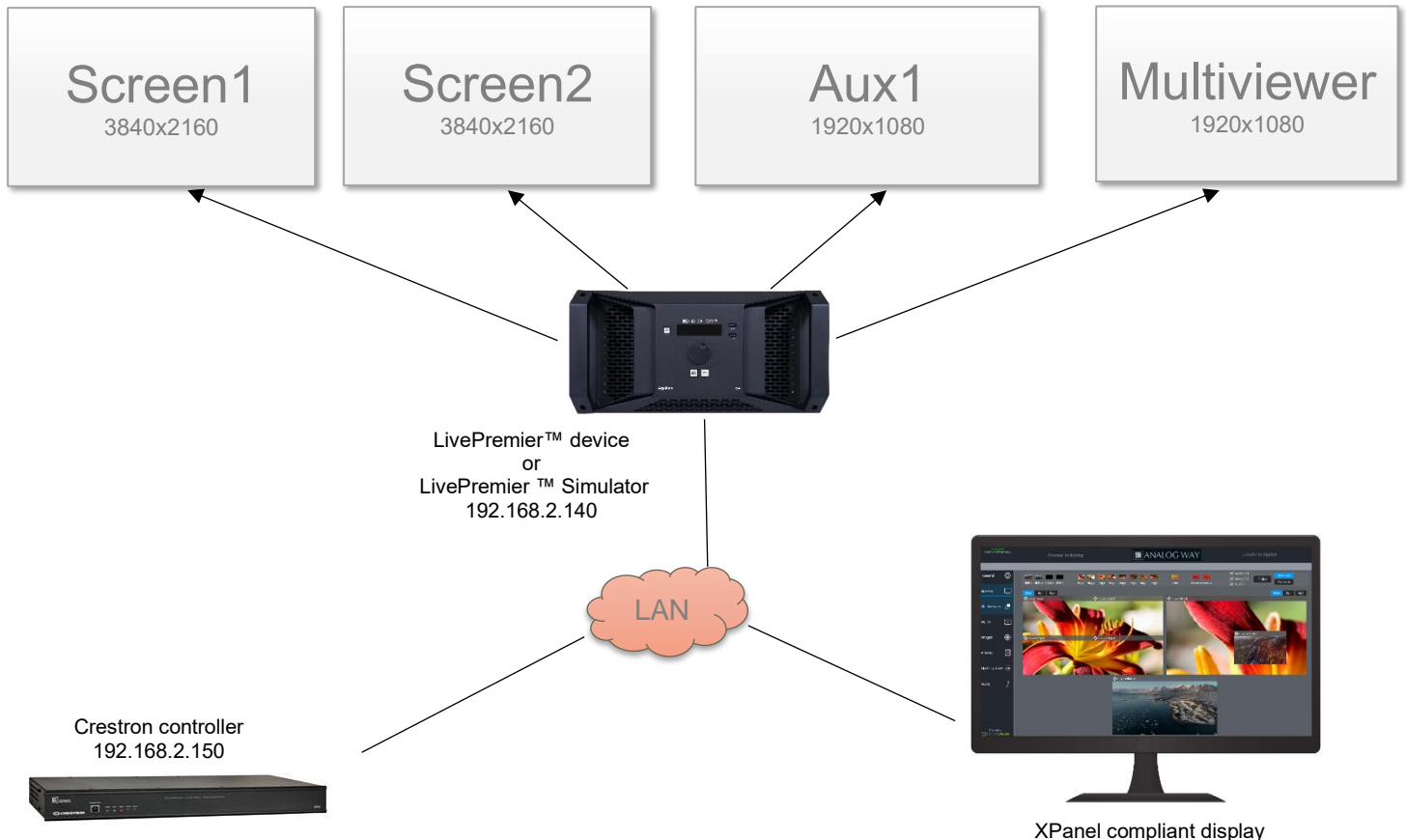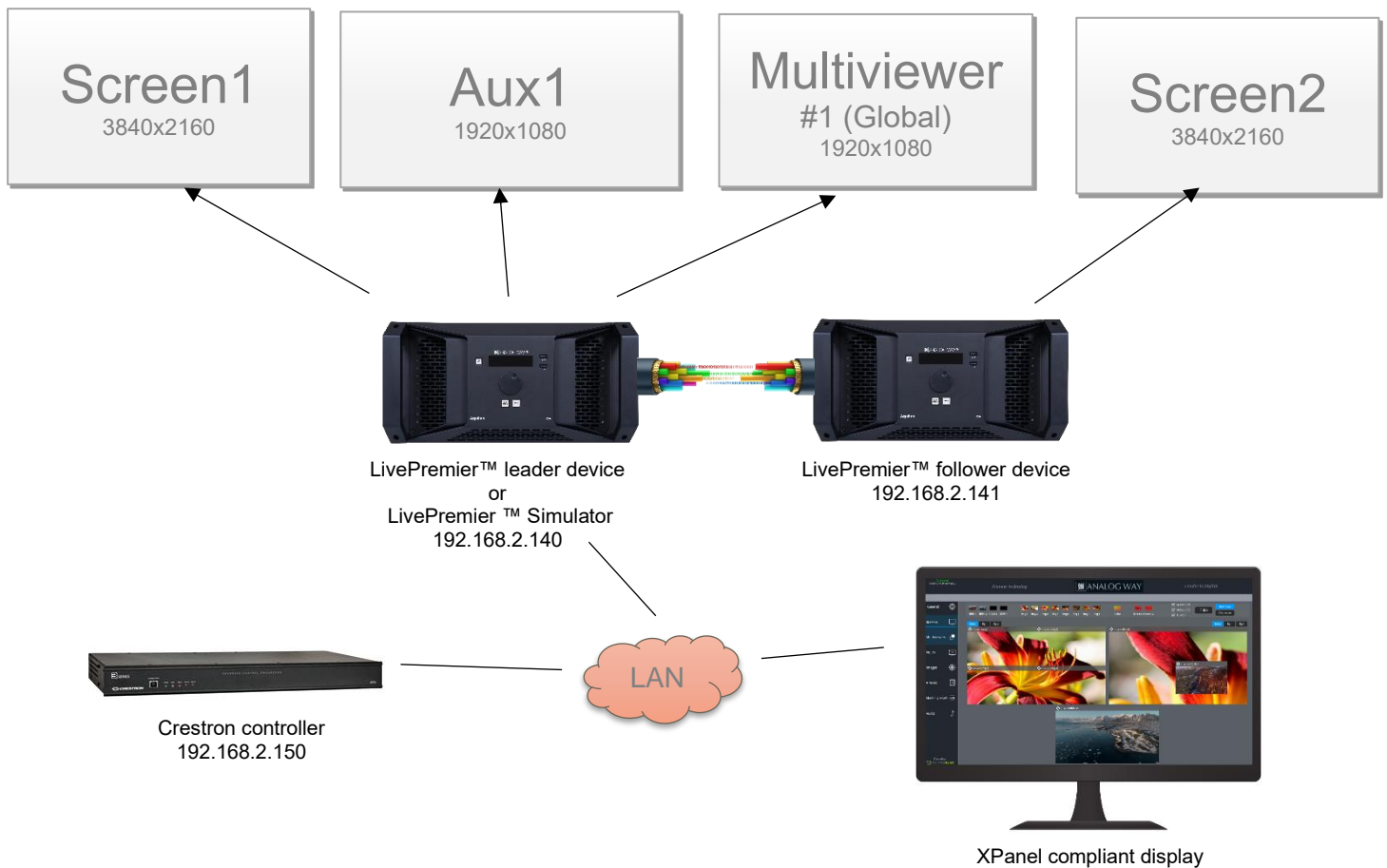

The example also uses few screen presets and master presets that should be created with the Web RCS before running it:

- 10 presets common to both screens and auxiliary outputs
- Screen 1 and Screen 2 contain 4 layers
- Aux 1 contains 2 layers and can be used to display inputs, images or screen programs (scaled)
- Multiviewer 1 is used to preview sources, images, or screens program (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.

Example 2 (Linked devices): Configuration and settings

The second example provided within the package has been designed to control two LivePremier™ live presentation switchers in a linked configuration. The Leader device has one 4K Program screen (Screen 1), one 1080Pp Auxiliary output (Aux 1) and one 1080p Global Multiviewer (out #1). The Follower device has one 4K screen (Screen 2). Before running this sample, please make sure your configuration (as well as the IP addresses) matches the diagram below:


The example also uses few screen presets and master presets that should be created with the Web RCS before running it:

- 10 presets common to both screens and auxiliary outputs
- Screen 1 and Screen 2 contain 4 layers
- Aux 1 can be used to display screen programs (scaled)
- Multiviewer 1 is used to preview sources, images or screens program (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.

This example assumes that the two LivePremier™ devices are each based on a 5U chassis with 24 inputs and 2 IPUs (48 still images). This is important for the linear numbering of inputs in the linked system. This example also assumes that some inputs are global (shared) and that the first 10 still images of the leader device are also global.

If this is not the case, you'll need to make a few modifications to the example program, in particular to the **InputNumber** and **InputOffset** parameters of the Inputs module of Device1 and Device2, as well as to the **ImageCount** and **ImageOffset** parameters of the Images module of Device1 and Device2.
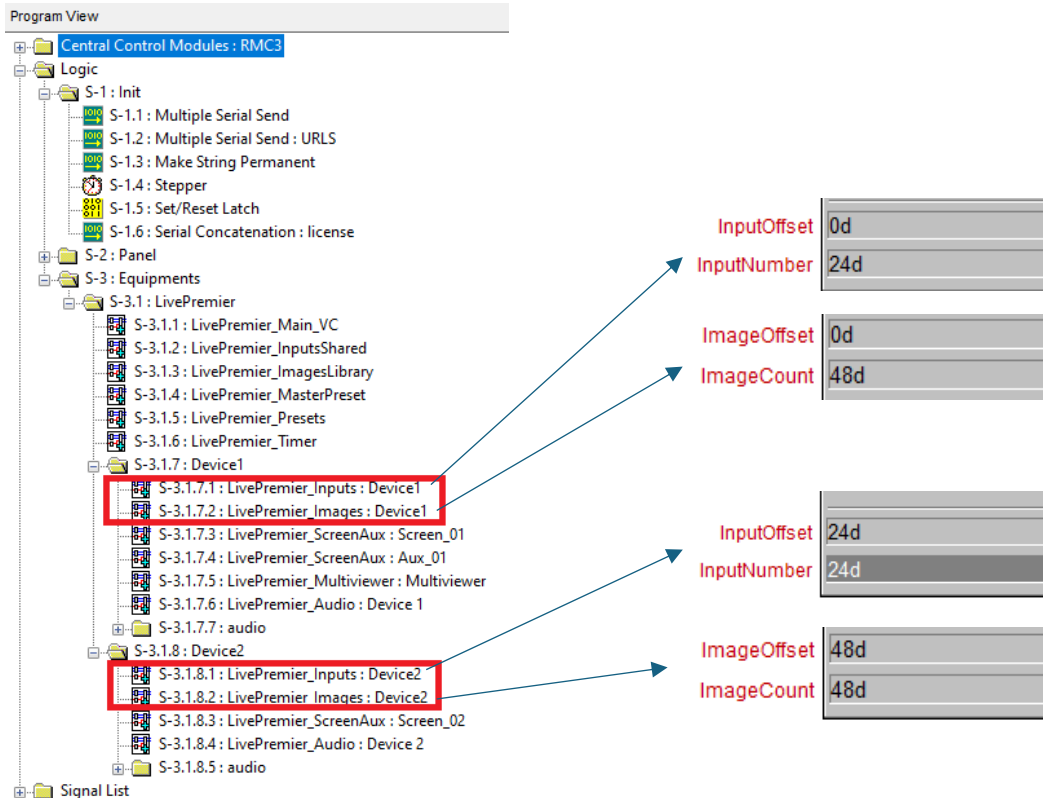
## Customize the IP address of the LivePremier™ device

Before running the demo program to control your own LivePremier™ live presentation switcher or your LivePremier™ Simulator, it is important to customize some settings regarding the LivePremier™ device that will be controlled (or the leader device for linked configurations):

- Open the LivePremier™ SIMPL demo program *(LivePremierCrestron_VC_Demo.smw or LivePremierCrestron_VC_LINK_Demo.smw)*.

- If the program will control a real LivePremier™ device, then select the *S-1: Init* folder and press F9 to replace the default IP address (192.168.2.140) with your LivePremier™ 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 LivePremier™ MAC address with the one from your LivePremier™ device (for ex. 80:1F:12:40:59:CE).

- On the contrary, if you plan to control the LivePremier™ Simulator instead of a real LivePremier™ 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 LivePremier™ Simulator (for ex. 192.168.2.50):

Press F9 again to replace the default LivePremier™ device access URL (http://192.168.2.140) by the LivePremier™ Simulator access URL available on TCP port 3000 (for example http://192.168.2.50:3000):
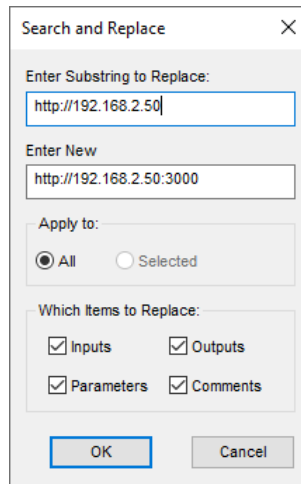
Then go to end of the first module *S-1.1 : Multiple Serial Send* and modify the default LivePremier™ MAC address by the one from the LivePremier Simulator (always 11-22-33-44-55-66).

- 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.
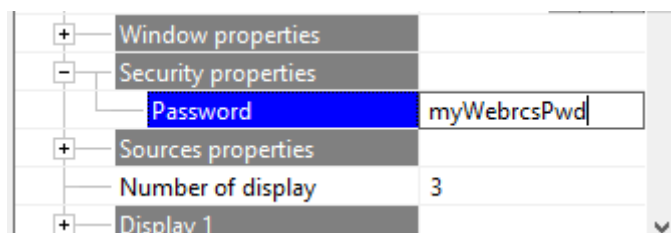
License

Before using **AW VideoCompositor for LivePremier™** 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 LivePremier_Main_VC module).
If you are only using the LivePremier™ 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.