Aetria WallControl

Quick Start Guide

Engineering the world's best visual solutions
Aetria WallControl Quick Start Guide

Thank you for purchasing the Aetria WallControl. The aim of this document is to quickly guide you through the process of initial setup.

For more detailed information, relevant User Guides can be downloaded from [www.datapath.co.uk](http://www.datapath.co.uk).

GETTING STARTED WITH AETRIA WALLCONTROL

The hardware behind Aetria WallControl is Datapath’s range of VSN systems. Video wall controllers that have been powering video walls in critical control rooms for over a decade. Aetria WallControl software connects VSN powered video walls to the Aetria system and enables complete, seamless control.

VSN INPUT

Each Datapath VSN wall controller is custom built to order, therefore the motherboard and number and type of inputs and outputs will differ from system to system.

Each VSN wall controller is shipped with a printed diagram outlining the specific types of input(s) and outputs and where they are located on the rear panel of the system.

Any input cables supplied are clearly labeled and will indicate which of the system input connectors they relate to.
STEP 1 - KEYBOARD AND MOUSE

Connect Keyboard and Mouse to convenient USB Ports.

USB Ports are located on both the front and rear panels of the system. If the intention is to mount the VSN wall controller in a rack, it may be more convenient to use the USB ports on the front for easy access.

4 x external USB 2.0 ports (2 front panel, 2 rear panel)
2 x external USB 3.0 ports (rear panel)

STEP 2 - CONNECT EXPANSION CHASSIS (OPTIONAL)

A VSN Expansion Chassis may have been purchased as part of a large video wall system or ordered separately.

Connect the HLink-G3 card in the main system to the SLink-G3 card in the expansion chassis using the ExCable-G3.

The ExCable-G3 is packaged and shipped with the VSN Expansion system.

For connecting Optical Expansion products, please consult the User Guide located on the documentation media.
STEP 3 - CONNECT TO A NETWORK

Connect the controller to a network point (cables not supplied) using one of the LAN connectors on the rear panel.

STEP 4 - CONNECTING VIDEO INPUT SOURCES

As each VSN wall controller is custom built, the number and type of video inputs will differ from system to system. If you have purchased a VSN wall controller with video inputs, the input connectors are located on the rear panel as shown in the example below:

The printed input/output diagram shipped with your VSN wall controller shows where the video inputs are located, and the types of input connectors installed in your system.

Connect the input sources to the relevant video input connectors. Cables may be supplied for some inputs; see content list for details.
**STEP 5 - CONNECTING A CONTROL SCREEN**

Your VSN wall controller is configured to use a control screen connected to the system’s internal graphics device prior to leaving the factory. Connect the control screen to the motherboard graphics output connector on the rear of the VSN wall controller. A control screen is initially required to set up the system including the operating system (Windows 10).

**STEP 6 - POWERING UP THE SYSTEM**

VSN wall controllers are supplied with either a Redundant Power Supply Unit (RPSU) or an ATX power supply. An RPSU power supply requires two power cables and an ATX supply requires one power cable. All power cables are supplied with your VSN wall controller.
1. Connect power cable(s) to the VSN wall controller then plug into a mains supply.

2. Switch on the power supply units.

3. Switch on the system using the power button on the front panel.

**Note:** If you have a VSN Expansion Chassis connected to the main unit (Step 2), the power supply units on the expansion chassis should be switched on prior to the main VSN wall controller. There is no requirement to switch on the expansion chassis on the front panel (3).

**STEP 7 - WINDOWS 10 SETUP**

Once the system has been built and configured in our factory, the operating system is resealed. Therefore, when switching the system on for the first time, the operating system setup commences. You will be prompted to enter information to set up the Windows 10 operating system.

There is no requirement for users to activate Windows 10, activation is done automatically. An internet connection is required for the automatic activation.

You are strongly recommended to create a Restore USB Flash Drive. (See Step 9).
STEP 8 - DISPLAY CONFIGURATION

Once the Windows 10 setup is complete, the VSN wall controller will reboot, and the control screen will show a Windows desktop displaying the Display Driver Configuration Tool (DDCT). The DDCT will guide you, step by step, through the configuration of the graphics outputs, enabling you to quickly create one or more video walls.

On the final stage of the configuration, the DDCT will recommend the optimum way to connect your VSN wall controller to your video wall displays.

A full description of the DDCT can be found in the User Guide located on the Documentation Media.

It is recommended that you carefully read the instructions on each page of the wizard. To commence your wall configuration, click on ‘Start Wizard’.

Select the type of displays being used on your wall:

3 Displays With Bezels – Monitors, TV’s and DLP Cubes.
4 Overlapable Displays – Projectors.
5 LED Displays.
Click on ‘Continue’.

The tool will then display a configuration page for the type of display you selected:

**What type of displays do you have?**

Use the Manufacturer and Model dropdown lists to select the displays you are using for your wall. If the wall consists of different displays, select each one in turn to configure the type of display. The DDCT has an extensive database of displays, however if your display is not contained in the list, you can input the details manually by selecting ‘Create Custom Display’.

It is strongly recommended that measurements are taken from the display manufacturer’s specifications if available.
Add Displays

Add Displays is available for displays with bezels or overlapable displays. Use the ‘Displays Across’ and the ‘Displays Up’ to create your Display Group. Once created, configure the displays using ‘What type of displays do you have?’ When using overlapable displays ‘Display Overlap’ becomes available, enabling you to select a percentage of overlap between displays.

Once the layout has been created and the type(s) of displays configured, click on ‘Add Displays & Continue’ and the following dialogue is displayed:

At this stage of the set up, you can choose to create another independent display group from the same system. This would be considered if one machine will be used to drive a number of separate video walls. See User Guide for more details.
If another display group is not required, click 'Finish' and the following page is displayed:

The DDCT can recommend the best wiring configuration for your system, ensuring the load is balanced between the graphics hardware. Click 'Recommended' for the optimal configuration for your system. (Should you wish to manually wire your system and decide for yourself which output is connected to which display, click on 'Custom').

You will next be presented with the Summary page:
If you chose to have the DDCT configure your wiring, this page will display the recommended display connections, as shown above. Connect each display to the corresponding output connector on the rear of the VSN wall controller. The printed input/output diagram shipped with your VSN wall controller shows where the display connectors are located on your system. If your VSN wall controller is connected to a printer, you can print a copy of the wiring diagram using ‘Print a Wiring Diagram’.

**Note:** The Datapath Diagnostic Suite must be installed to print a wiring diagram. The suite can be downloaded from the Datapath website software downloads page should it not already be installed on your system.

To manually select the outputs right click on the display group and select ‘Edit.’ You can then select each individual display and allocate your preferred output. Right click on a selected display to reveal the list of outputs available:

![Diagram showing display group and output options]

When all outputs have been allocated by either Recommended or Custom click ‘Finish’. You will then be prompted to save the changes to your video wall and restart your system. When restarted, the Windows Desktop will be displayed across the wall.

You can access the configuration tool at any time should you wish to make changes. Right click on the desktop and select ‘Display Driver Configuration Tool’ from the menu.
STEP 9 - CREATE A RESTORE USB FLASH DRIVE

To create your Restore USB flash drive you will need a USB memory stick with a minimum capacity of 16GB. It is recommended that once the restore flash drive has been created, it is stored in a safe place accessible to personnel who may be required to restore the system.

You will need to boot into the Windows Restore portal to begin the process of creating your Restore USB Flash Drive.

Switch on your machine and when the boot messages display the Choose an Operating System screen, use the cursor keys to select ‘Windows Restore’ as shown in the following dialogue.

It should be noted that the dialogue is only displayed briefly, approximately 3 seconds.
This will lead you to the Windows 10 Restore Menu as shown below:

Click on the ‘Create Restore Media’ icon then insert the USB flash drive into a vacant USB slot (min capacity 16GB).
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It should be noted that any data currently stored on the USB flash drive will be deleted permanently during this process.

Click on 'Scan for USB'.

The application will now scan the system USB ports to detect your USB flash drive. Once the flash drive has been discovered, it will appear in the Select Drive dropdown list. Select the flash drive you wish to use from the list and click on 'Make Restore'.

Once the Windows 10 Restore USB flash drive has been created a Build Complete dialogue is displayed:

Click on 'OK' to complete the process.
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