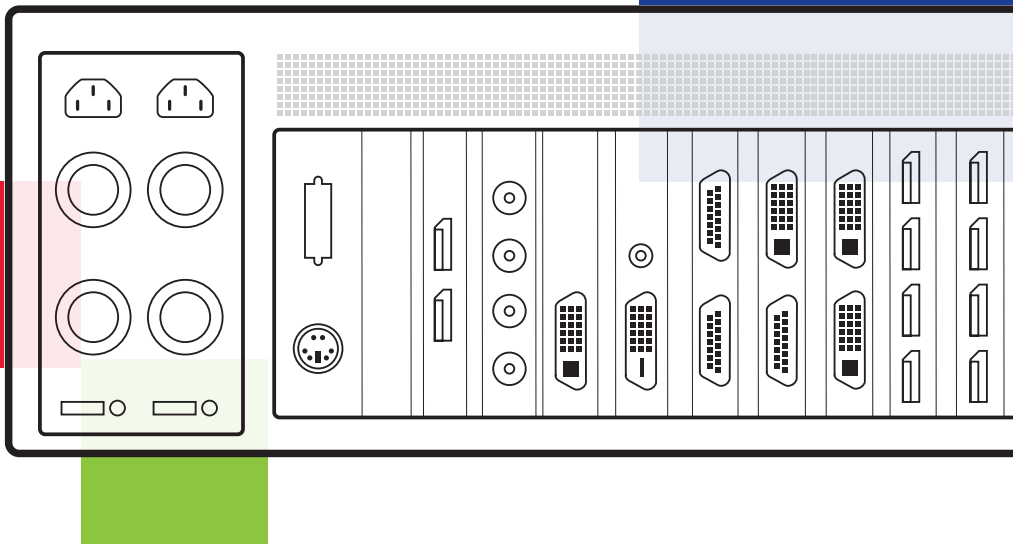# VSN Wall Controller
Quick Start Guide

2nd Generation Series of Wall Controllers

Models:

VSN972, VSN1172

VSN982, VSN1182

VSN1192

Thank you for purchasing the Datapath VSN Wall Controller. The aim of this document is to quickly guide you through the process of initial setup. For detailed instructions, consult the system User Guide which can be found on the Documentation Media.

DATAPATH
EXCELLENCE BY DESIGN

QUICK START GUIDE

Each Datapath VSN wall controller is custom built to order therefore the motherboard, 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)

Rear Panel

Front Panel
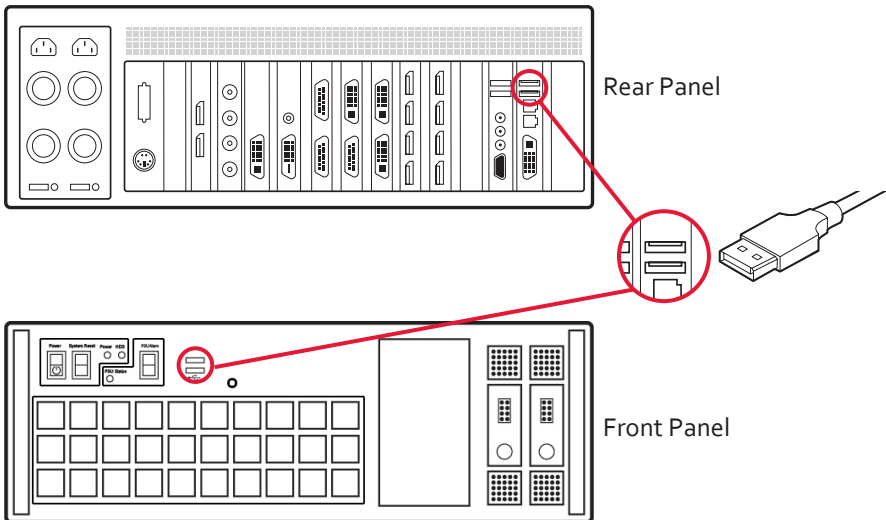
+ STEP 2 CONNECT EXPANSION CHASSIS (OPTIONAL)

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.
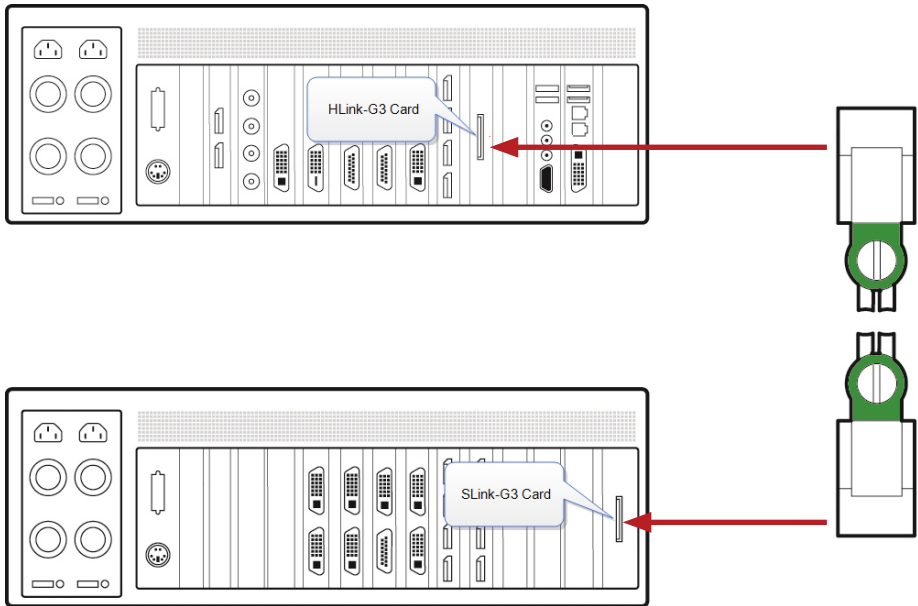
For connecting Optical Expansion products please consult the User Guide located on the documentation media.

+ STEP 3 CONNECT TO A NETWORK (OPTIONAL)

If the VSN wall controller is to be used over a network, connect the controller to a network point (cables not supplied) using one of the LAN connectors on the rear panel.
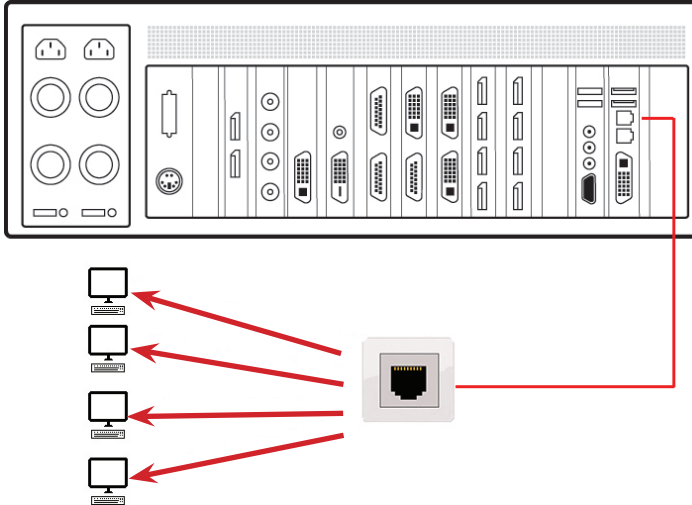
+ STEP 4 CONNECTING VIDEO INPUT SOURCES

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:


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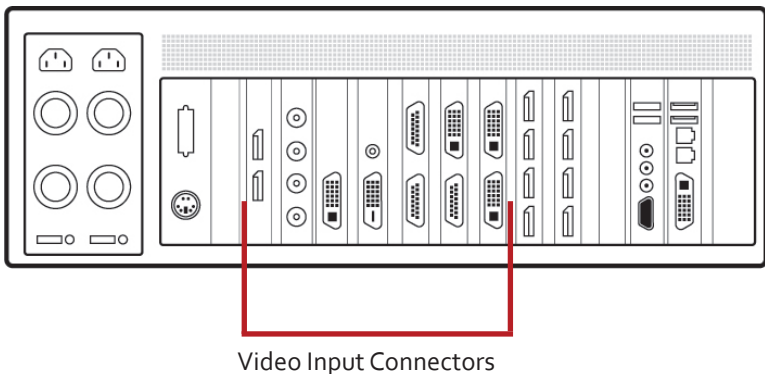
The printed input/output diagram shipped with your VSN wall controller shows where the video inputs are located and the types of input connectors installed in your system.

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 systems 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).

VGA or DVI

Control Screen
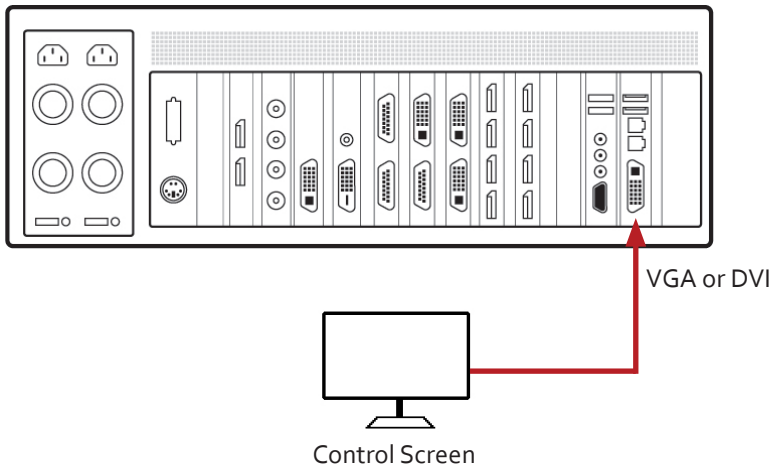
✛ STEP 6 POWERING UP THE SYSTEM

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.

RPSU Power Switch

ATX Power Switch
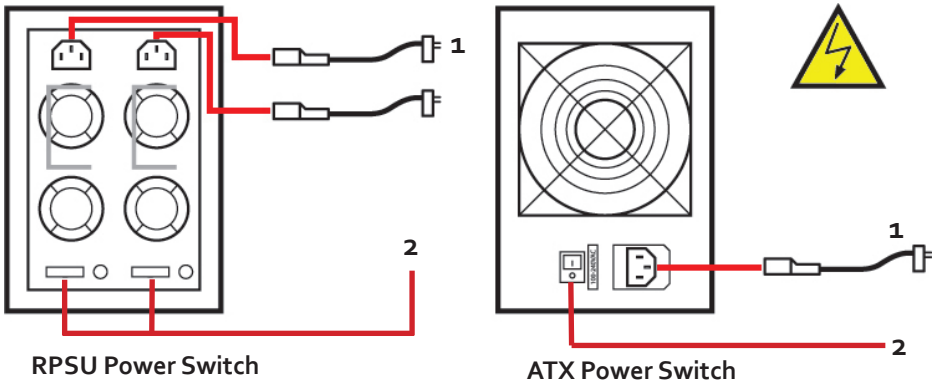
3. Switch on the system using the power button on the front panel.
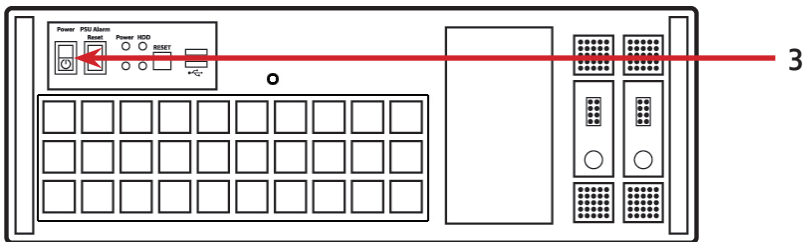
Note:

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 11)

✚ 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** .
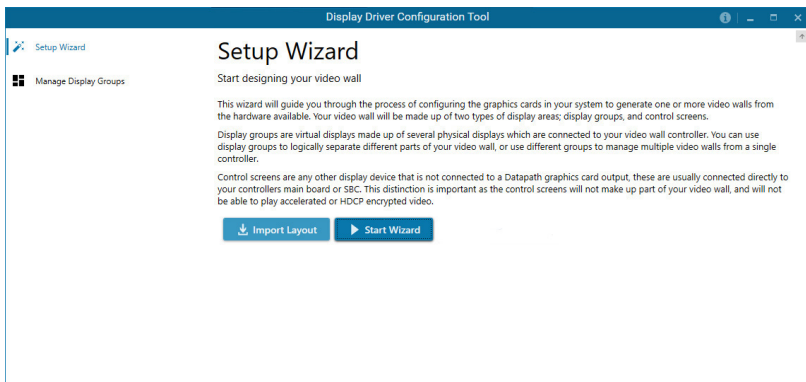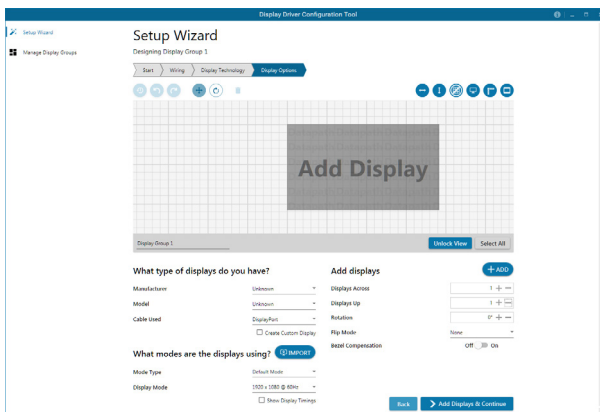
Select the type of displays being used on your wall:

- Displays With Bezels – Monitors, TVs and DLP Cubes.
- Overlapable Displays – Projectors.
- LED Displays.
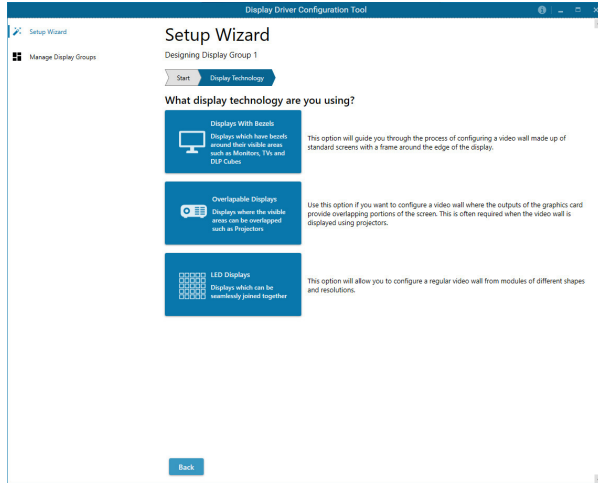
Click on **Continue**.

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

What Types 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:
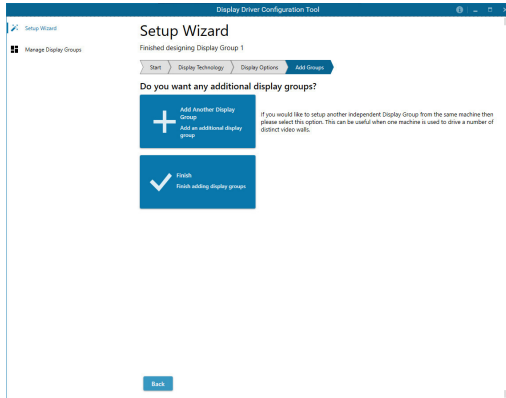
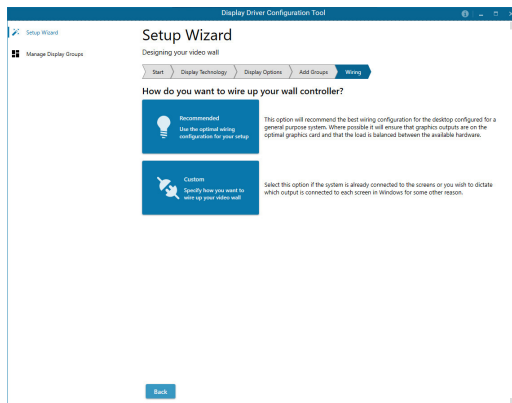At this stage of the set up you can choose to create another independent display group from the same system, this would be considered if one machine will be used to drive a number of separate video walls. See User Guide for more details.

If another display group is not required, click on "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 on "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 be next be presented with the Summary page:
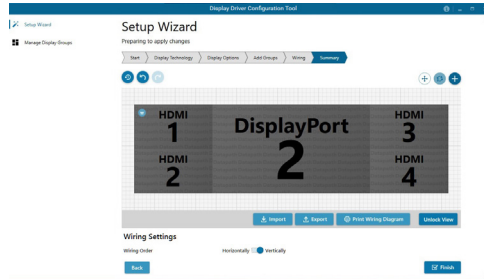
If you chose to have the DDCT configure your wiring, this page will display the recommended display connections, as shown above. Connect each display to the corresponding output connector on the rear of the VSN wall controller. The printed input/output diagram shipped with the your VSN wall controller 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 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:
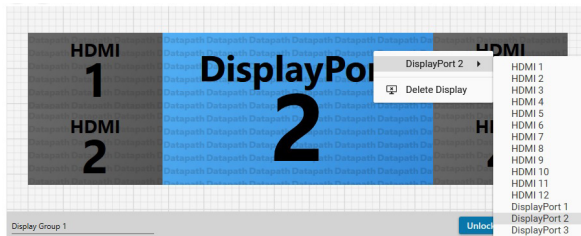
When all outputs have been allocated by either Recommended or Custom click on Finish. You will then be prompted to save the changes to your video wall and restart your system. When restarted, the Windows Desktop will be displayed across the wall.

You can access the configuration tool at anytime should you wish to make changes. Right click on the desktop and select Display Driver Configuration Tool from the menu.

✛ STEP 9 WALLCONTROL 10 (OPTIONAL)

Before opening the WallControl 10 Client interface you may need to start the WallControl 10 Server should it not start automatically. The Server icon is displayed in the System Tray.

Server icon ➡️

If the Server fails to start automatically, start the Server by clicking on it in the "All Programs" menu. The WallControl 10 Client will only detect servers that are running.
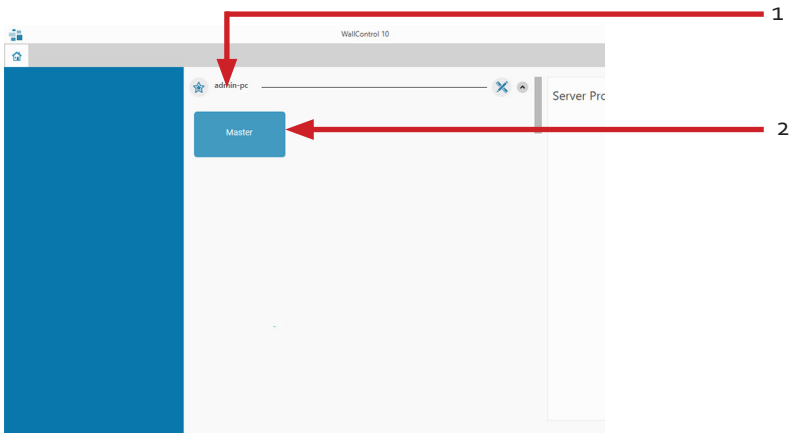
Start | All Programs | WallControl 10 - Server

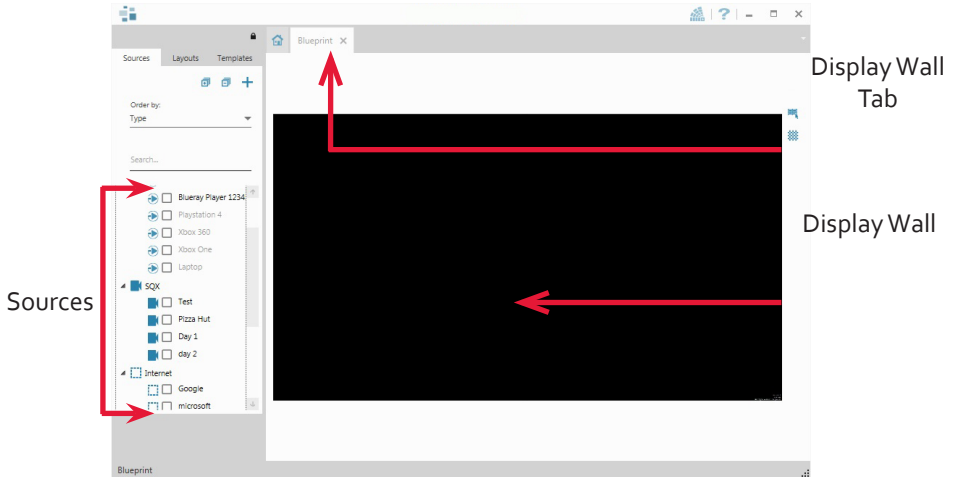## Open the WallControl 10 Client

Start | All Programs | WallControl 10 - Client

The WallControl 10 - Client

1	Indicates the server you are connected too.
2	A representation of the display wall associated with the server.

Click on the display wall representation (2) as shown on the previous illustration, to open the display wall tab.

Display Wall Tab

Display Wall

Sources

When opened, the display wall tab shows a live representation of the physical wall and the sources available to display on it. To place a source on the video wall, simply click on the required source in the sources tab and drag it onto the display wall representation. (Note: It is not possible to drag Application sources, double click to open).

The application help file contains information explaining how multiple sources can be selected, how to use and create templates and how to save, recall and share layout files.

The WallControl 10 - Security Administration Client (Only Available with WallControl 10 Pro)

A WallControl 10-Pro serial dongle must be inserted into a vacant USB port. If the dongle is removed or swapped, the Security Client will not open and an error message is displayed, therefore it is important the dongle is not removed.

If you have purchased WallControl 10 Pro, the licence dongle can be located in the accessories box.

Start | All Programs | WallControl 10 - Security Administration Client
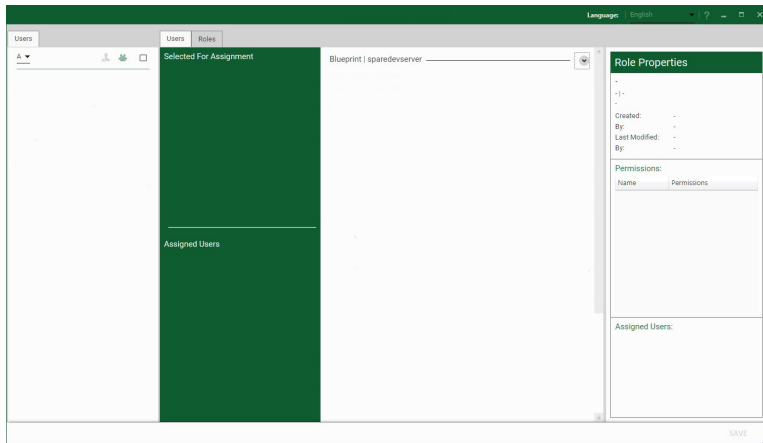
The WallControl 10 - Security Administration Client allows Administrators to assign specific users to roles on a wall by wall basis. For example, a user can be assigned a role allowing unrestricted access on one wall but assigned a role on another wall which only allows the opening of pre-determined layouts.

Prior to the Security Client being used for the first time, the SecurityOnOff.exe program must be running to enable security protection for the application. To manually run the SecurityOnOff.exe, ensure you are logged into Windows with Administrator Rights.

Locate and double click on the SecurityOnOff.exe file:

Program Files|WallControl 10| Security Server|SecurityOnOff

The WallControl 10 Security Application help file contains information on how to:

- Import users from the Windows Active Directory into the database.

- Create and edit roles.

- Assign permissions to providers, layouts and sources giving specific roles access to them.

- Assign roles to walls.

Start | All Programs | Wall Control | Wall Control-My Computer

1   2   3
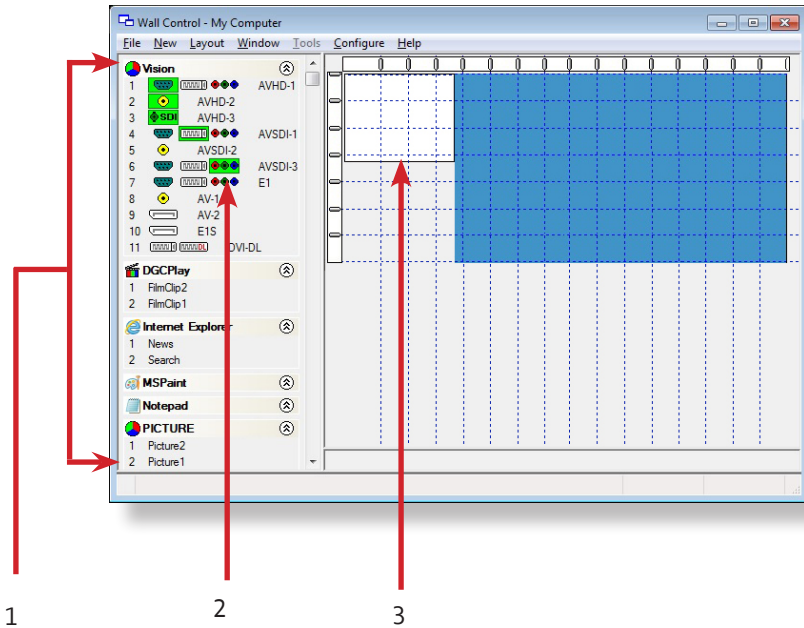
1	The Icons displayed in the application toolbar identify which type of source is available to each input
2	Icons highlighted green indicate an active capture for that particular input.
3	Representation of the control screen if one is being used.
4	Representation of the video wall desktop.
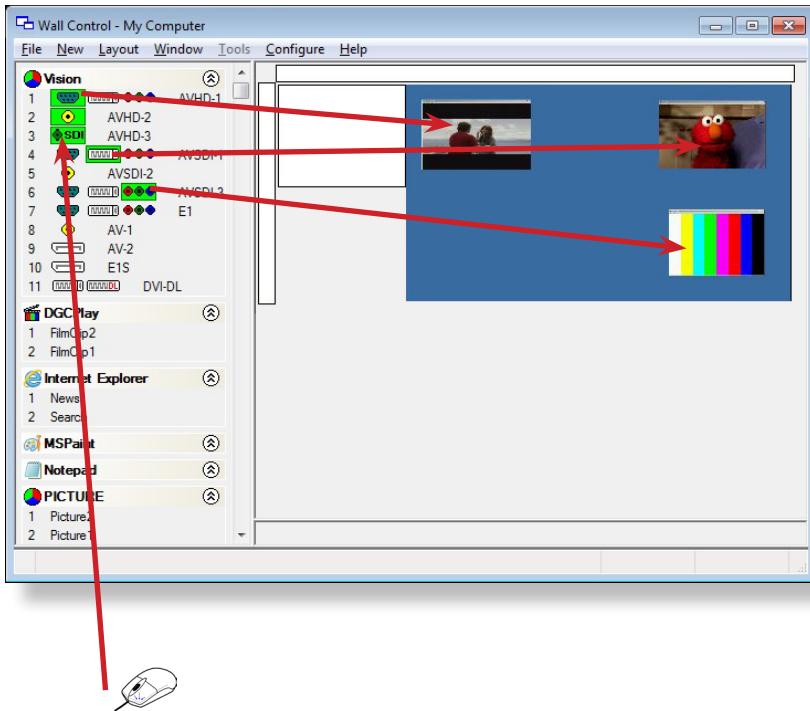
To open a video window click and drag an active capture into the Wall Control-red/ SQX application.

Use the Help menu for a comprehensive guide to the features of the application.

✛ STEP 11 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 your restore flash drive has been created, it is stored in a safe place accessible to personnel who may be required to restore the system.
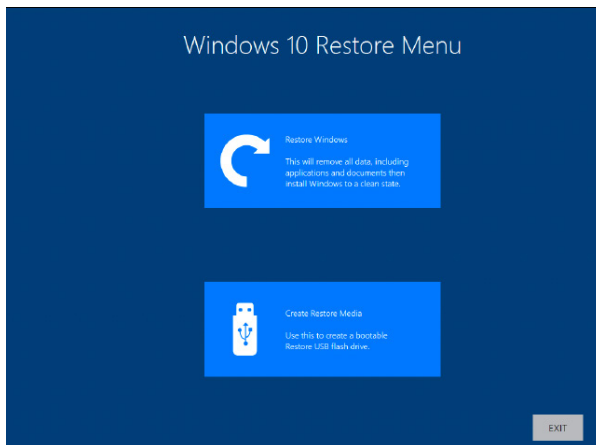
You will need to boot into the Windows Restore portal to begin the process of creating your Restore USB Flash Drive.

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.


```
                          Windows Boot Manager

Choose an operating system to start, or press TAB to select a tool:
(Use the arrow keys to highlight your choice, then press ENTER.)


    Windows 10                                                      >
    Safe Mode
    Safe Mode with Networking
    Safe Mode with Command Prompt



To specify an advanced option for this choice, press F8.




Tools:

    Windows Memory Diagnostic



 ENTER=Choose                 TAB=Menu                   ESC=Cancel
```

This will lead you to the Windows 10 Restore Menu as shown below:

Windows 10 Restore Menu

Restore Windows
This will remove all data, including applications and documents then install Windows to a clean state.

Create Restore Media
Use this to create a bootable Restore USB flash drive.

EXIT

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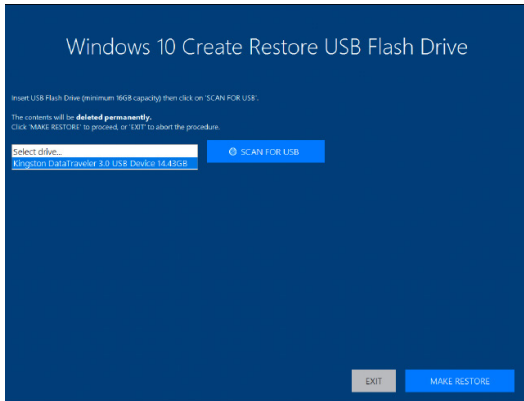
It should be noted that any data currently stored on the USB Flash Drive will be deleted permanently during this process.

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:
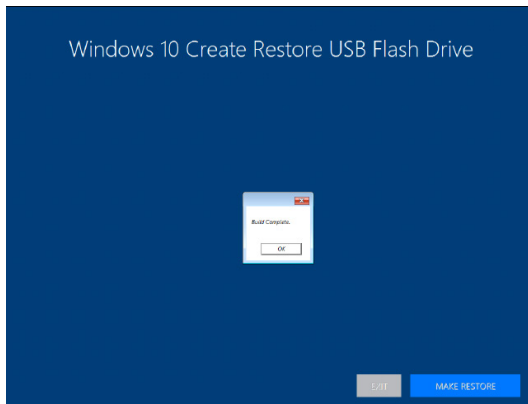
Click on "**OK**" to complete the process.

$C\epsilon$

EU – Class A Declaration of Conformity

Datapath Ltd declares that this product complies with the essential requirements and other relevant provisions of Directives 2014/30/EU, 2014/35/EU and 2011/65/EU.

A copy of our Declaration of Conformity is available on request.

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A full list of product compliance certifications can be found in the product User Guide on the Documentation Media supplied with the system.

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