SolarWall Controller Quick Start Guide

This quick start guide provides basic instructions for setting up SEADA SolarWall video wall controllers. For additional information about how to use the controllers, please see the User Manual, which is available on the CD included in this package.

Setup Steps

1. Verify the package contents
2. Hardware overview
3. Hardware installation
4. Software installation on control PC
5. Configuration of video wall management software
6. SW-Control management Software
7. Further reference

1. Verify the package contents

Please verify the package contents against the Packing List (Document No. SD-OP-005)

If any of the items in packing list is missing, please contact your reseller.

Document No. **SD-MA-008**
Document Version: **06**

SolarWall Controller Quick Start Guide

2. Hardware Overview

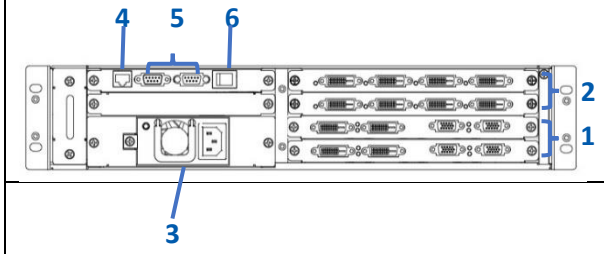
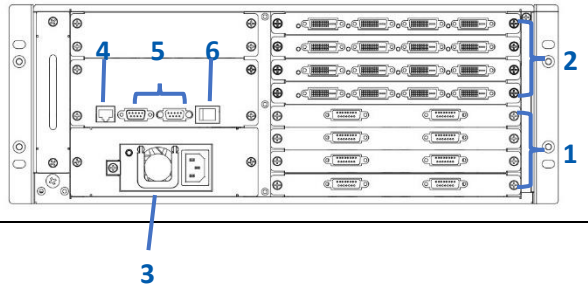
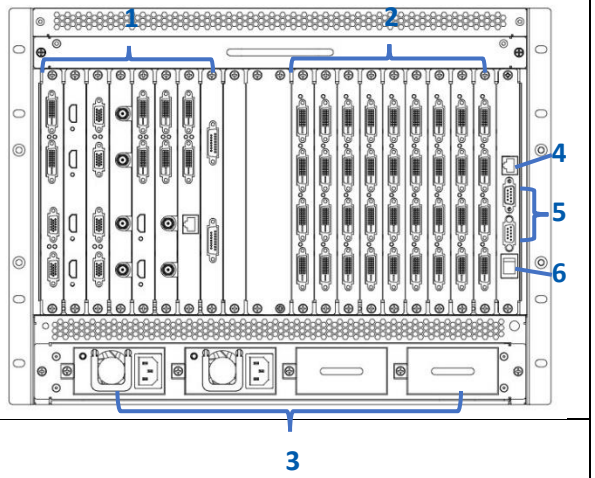
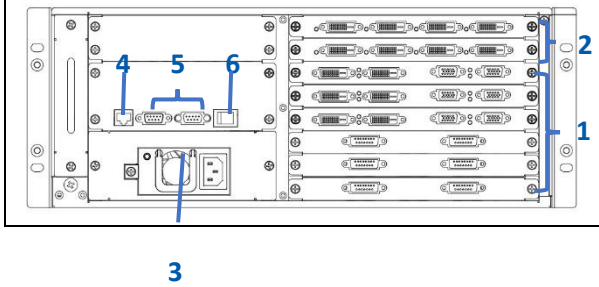
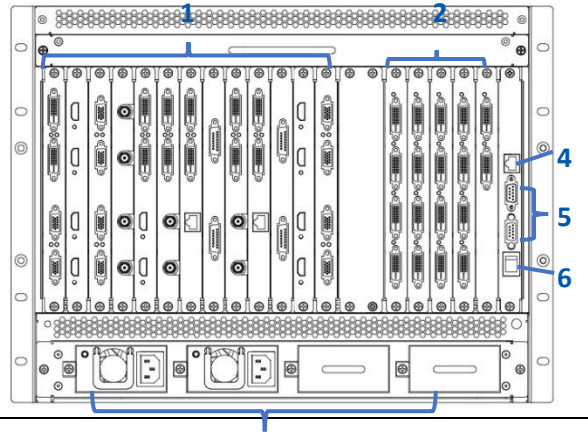
Model: SW2008	Model: SW2016	Model: SW2036
		
Model: SW4008	**Model: SW4018**	
		1. Video capture cards slots 2. Video output cards slots 3. Power supply 4. RJ45 connector 5. RS232 serial connector 6. Power switch

Figure 1

3. Hardware installation

3.1. Note

A computer running Microsoft Windows2000/XP/Vista/7/8/10 (not supplied) is required as a control PC for the SEADA controller.

3.2. Basic Connection

Connect the supplied power cable from the controller (Figure 1-3) to a power outlet.

Connect the wall control software USB dongle to the control PC.

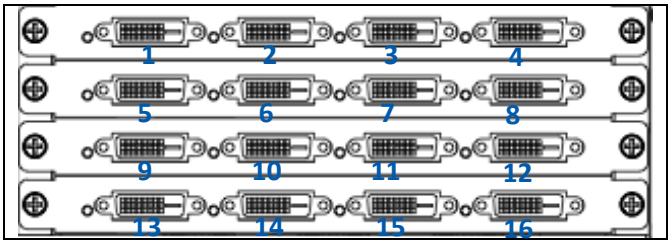
Connect the SEADA video wall controller (Figure 1-4 or 5) to the control PC either via Ethernet cable or RS232 cable.

3.3. Connect Outputs to Displays

Connect the controller outputs to the video wall displays (Figure 1-2) using the appropriate cables or adapters (not supplied).

Please see Figure 2 below for the channel mapping between the video wall controller output ports and the video wall displays.

2 & 4U Chassis Output



1	***2***	***3***	***4***
5	***6***	***7***	***8***
9	***10***	***11***	***12***
13	***14***	***15***	***16***

Video Wall Display

8 & 8 up Chassis Outputs

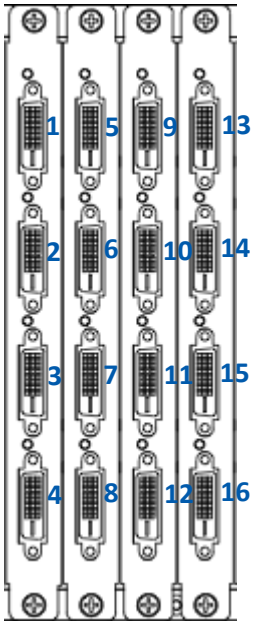


Figure 2

3.4. Connect Input Sources to the Controller

Connect the Input sources to the SEADA video capture cards (Figure 1-1) using the appropriate cables and adapters (not supplied).

SEADA Technology offer a comprehensive range of capture cards for use in our video wall controllers. Below is the list of all video capture cards and the connectors they use.

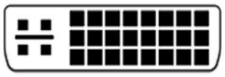
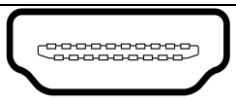
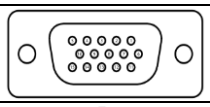
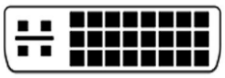
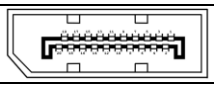
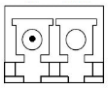
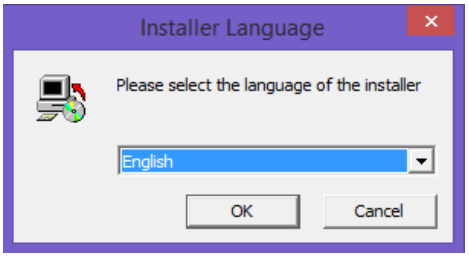
Capture Card	Description	Signal Format	Connector Type	Illustration
SW-IN-DVI4	4 channel DVI capture card	DVI/HDMI	DVI-I (Dual Link)	
SW-IN-HDMI4	4 channel HDMI capture card	HDMI/DVI	HDMI A	
SW-IN-VGA4	4 channel VGA capture card	RGB/YPbPr	D-Sub	
SW-IN-SD16	16 channel SD capture card	PAL/NTSC	BNC	
SW-IN-DL2	2 channel Dual Link DVI capture card	DL-DVI, DVI/HDMI	DVI-I (Dual Link)	
SW-IN-SDI4	4 channel SDI capture card	3G/HD/SD-SDI	BNC	
SW-IN-DP2	2 channel DisplayPort capture card	DisplayPort 1.1	DisplayPort	
SW-IN-HBT4	4 channel HDBaseT capture card	HDbaseT	RJ45	
SW-IN-IP8	4 channel HDBaseT capture card	IP Streams	RJ45	
SW-IN-OF4	4 channel Optical Fiber capture card	Optical signal	LC	

Figure 3

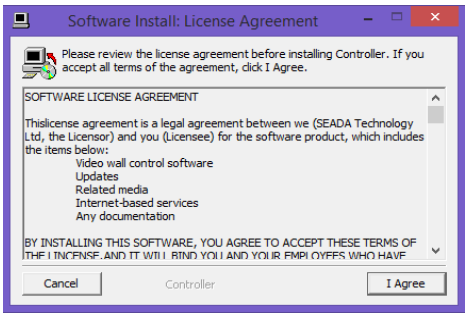
4. Software installation on control PC

Insert the SEADA Software CD into your control PC's CD-ROM drive to begin the installation. Double click the SolarWall management software icon in software folder to start the installation.

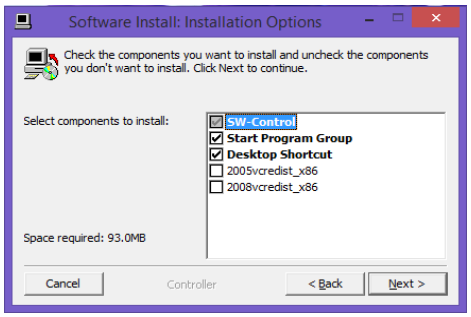
Click the drop down menu to choose the language for the software.
The default language is English.
After choosing the language, click **OK** to continue



Click **I Agree** to accept the License Agreement

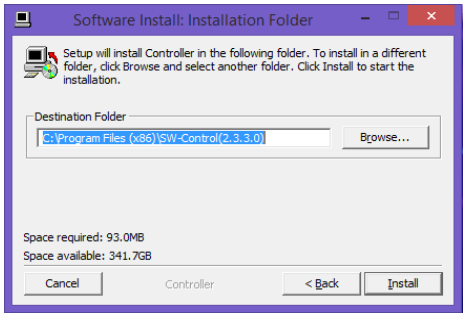


Check and uncheck the items for installation.
And then click **Next**.
Note: Please install 2005vcredist_X86 and 2008vcredist_X86 if the PC never had them installed before, otherwise a **'side-by-side configuration failure'** error message will show up while trying to run the software.

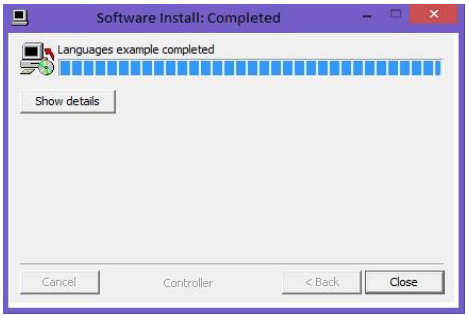


Choose the path for installation as you wish and then click **Install** to start the installation process.

Note: The installation may take several minutes to finish

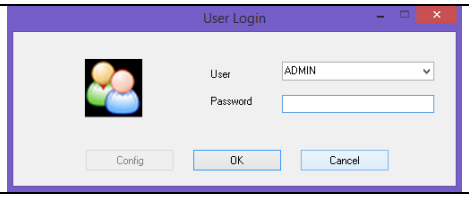
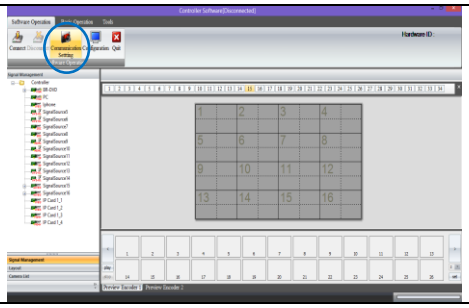
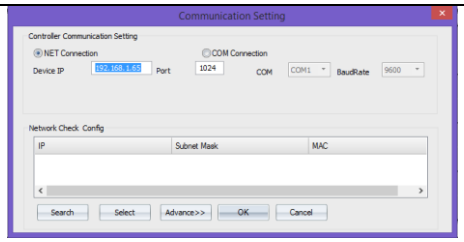


Click **Close** to complete the installation



5. Configuration of video wall management software

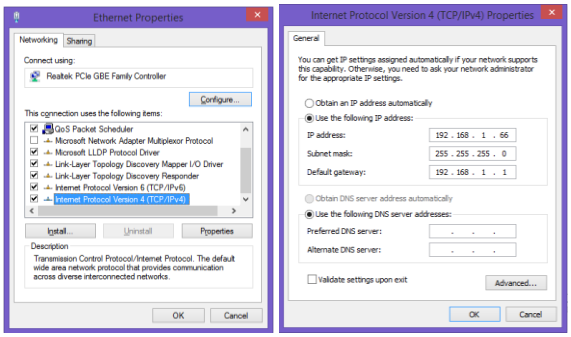
5.1. Set Up Communication between Video Wall Controller and Control PC

Switch on both the SolarWall Controller and Control PC. Double click the SW-Control icon on the desktop that was created during the installation. **Note:** make sure the software dongle is correctly inserted in the control PC.	
The user log in dialog box will appear. When logging in for the first time, the User Admin ID is **admin** with the password left blank Click **OK** button to continue	
Select '**Software Operation**' module and click '**Communication setting**' to start setting up the communication protocol between Control PC and SEADA Video Wall Controller	
Two connections are available; 1. COM Connection Choose 'COM Connection' to enable RS232 serial port connection between Control PC and Video Wall Controller • Port: 1024 • BaudRate:9600 2. NET Connection Choose 'NET Connection' to enable the Control PC to control the Video Wall Controller through the network • The Video Wall Controller's default static IP address is **192.168.1.65** Once the connection setting having been done, click **OK** to save the change and exit.	

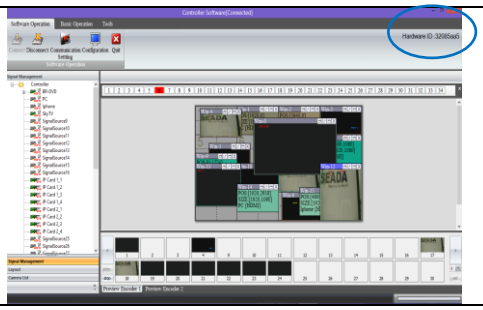
For COM connection, no further setting is needed.

For NET connection, a change to the IP address of the Control PC is needed

- Open the 'Ethernet Properties' windows on Control PC
- Highlight the TCP/IPv4 in Networking and click the Properties button to open the TCP/IPv4 Properties window
- Change the 'Obtain an IP address automatically' to 'Use the following IP address to set up a static IP address
  - IP address: any address between **192.168.1.1** and **192.168.1.255** except the address which has been taken by the Video Wall Controller
  - Subnet mask: **255.255.255.0**
  - Default Gateway: **192.168.1.1**



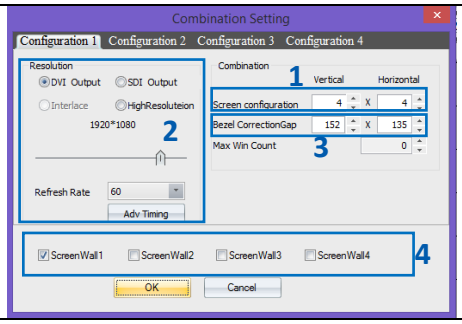
Click **Connect** in **Software Operation** to link the Video Wall Controller and Control PC together. Once the Video Wall Controller has been linked, its backplane serial number will be displayed on the top right corner.



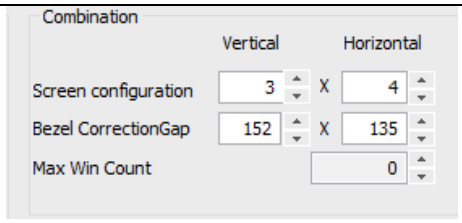
5.2. Video Wall Layout Configuration

Click **Configuration** in **Software Operation** Module to open configuration Setting dialog window. The following setting can be changed in this window

1. Number of screens, screen arrangement
2. Screen resolution
3. Screen bezel correction
4. Multi video walls setting



Bezel Correction Gap
Unit: pixel, and assume the parameter as follow
Monitor Bezel width: left = a, right = b
Monitor Bezel width: top = c, bottom = d
Monitor dimension (exclude bezel) = L x H
Monitor resolution = x * y pixel (e.g. 1920 x 1080)
Vertical = $\frac{a+b}{L} * x$
Horizontal = $\frac{c+d}{H} * y$



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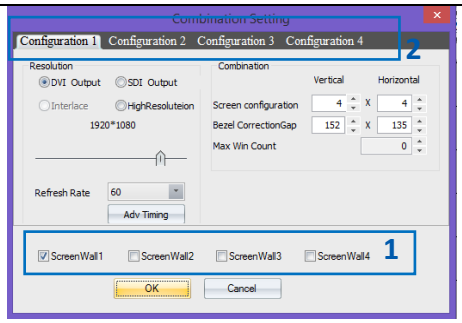
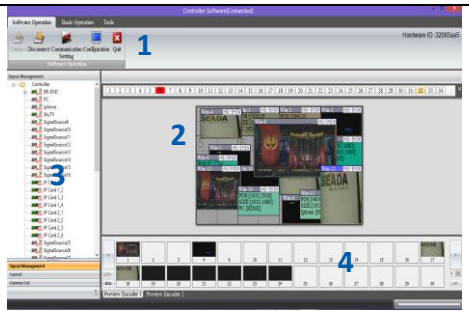
Multi video walls setting

1. Enable how many video walls the controller needs to control
2. Go into each **configuration** to set up the followings for each video wall
   - 2.1. Number of screens, screen arrangement
   - 2.2. Screen resolution
   - 2.3. Screen bezel correction



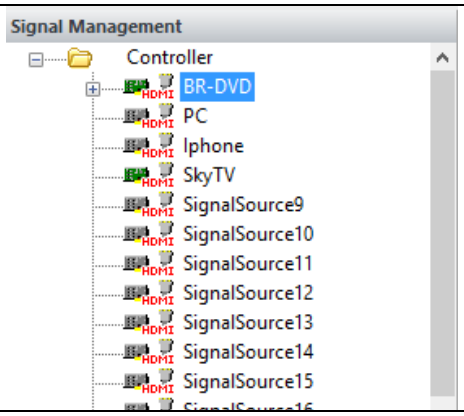
6. SW-Control management Software

1. Ribbon style Toolbar
   - 1.1. Software Operation
   - 1.2. Basic Operation
   - 1.3. Tools
2. Video Wall Display area
3. Application Toolbar
   - 3.1. Signal Management
   - 3.2. Layout
   - 3.3. Camera List
4. Preview bar



Display Input sources on the Video Wall

1. Simply drag and drop the input source from the 'Input Signal Source' onto the Video Wall Display area.
2. Highlight the source needed to be displayed and click '**New Open**' in **Basic Operation module**
3. Highlight the source needed to be displayed and draw a window on the video wall display area using mouse.



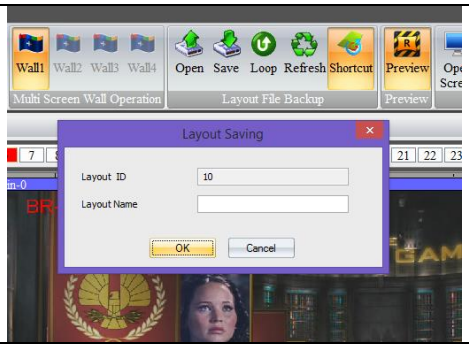
Move the window

Drag and drop the windows to the chosen position on the Video Wall Display area.

Resize the Window

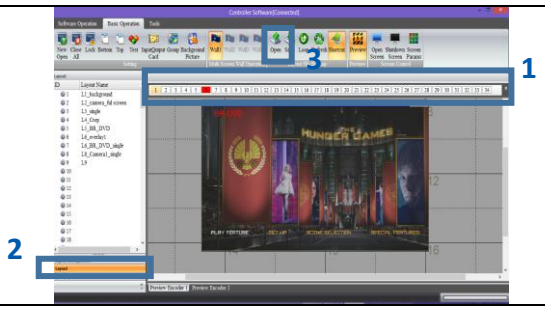
Click and drag the boarders of the windows to resize the window

Once the layout of windows have been set, the layout can be saved simply by clicking **save** button on layout file backup section on **Basic Operation module** for recall at any time. A specific name can be given to a layout for future reference by the user. Total of 128 layouts can be saved for each video wall.



Opening a saved layout can be easily done by

1. Clicking the shortcut on the top of the Video Wall Display area
2. Or, going to **Layout** List in Application Toolbar to find the specific one
3. Or selecting **open** button layout section on Basic Operation module



7. Further reference

For further understanding of using SolarWall Controllers, setting up IP streaming and SW-Control software, please refer to Solar Wall Management Software User Manual (Document number: SD-MA-010) and the datasheet.

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