VZ-PRO SERIES VIDEO WALL CONTROLLER GUIDE

Cable & Graphic Card SET UP MANUAL



Please read this manual thoroughly before use, and keep it handy for future reference.

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VZ-PRO12 License Key

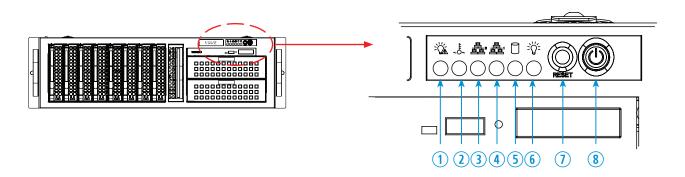


Note: One USB license key required to run MaxWall is installed on the motherboard's USB socket (inside chassis).

VZ-PRO12 Specification

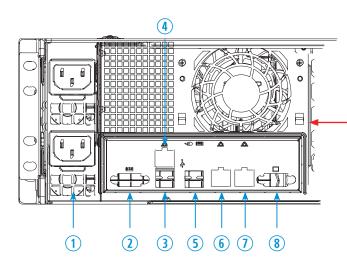
CPU	1 x Intel® Xeon® E5 Series Processor
Storage	2 x 512GB SSD (Raid 1)
I/O Interface	8 x HDMI Display (via uD to HDMI cables)
	8 x Capture In ports
	4 x USB ports
	1 x COM port
	1 x VGA (Disabled)
	2 x RJ45 for Gigabit Ethernet
	1 x IPMI Lan port
Power Supply	980W high-efficiency (94%+) AC-DC Redundant power supplies

VZ-PRO12 Front Panel Interface

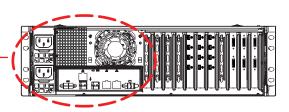


- 1. Power Failure LED
- 2. Alert LED
- 3. LAN 1 LED
- 4. LAN 2 LED
- 5. HDD LED
- 6. POWER LED
- 7. Reset Button
- 8. Power Button

VZ-PRO12 Rear Panel Interface



- 1. Power AC 110V In
- 2. Com 1 Port
- 3. USB 3.0 x 2
- 4. LAN (IPMI)Port
- 5. USB 2.0 x 2
- 6. LAN 1
- 7. LAN 2
- 8. VGA In

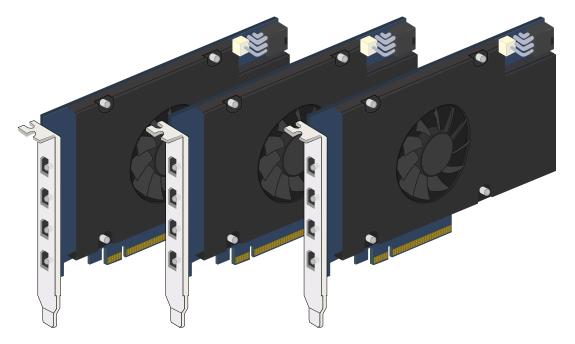


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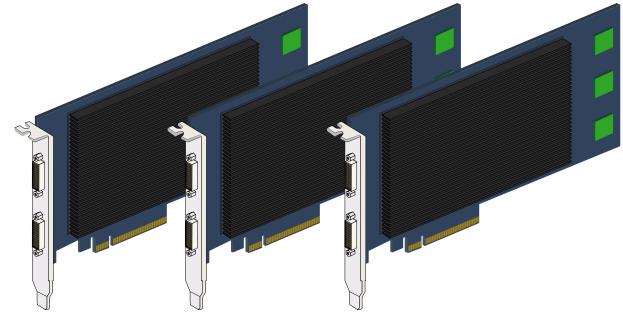
VZ-PRO12 - Display (Output) & Capture (Input) Card

Three uD8-42 display(output) cards & three cP4 capture(input) display cards are installed in VZ-PRO12.

12 uD-HDMI cables & 6 cP4 cables are included in utility box for HDMI display output & input.



3 x uD8-42 display (output) cards



3 x cP4 capture (input) cards

C1 : 1st **cP4**

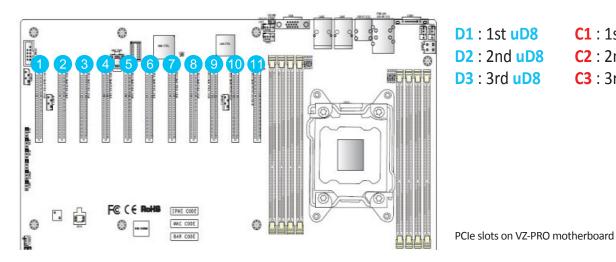
C2 : 2nd cP4

C3: 3rd cP4

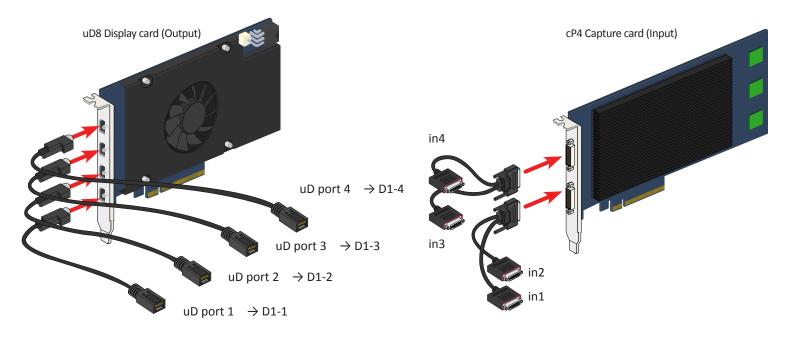
VZ-PRO12 - Display (Output) & Capture (Input) Card - Motherboard installation

- **D** : Display card **uD8**
- C : Capture (Input) card cP4

3 Display card and 3 Capture card installed in VZ-PRO12											
PCIe slot Number	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
Installed Card	C 1	C 2	C 3	D 1	D 2	D 3					

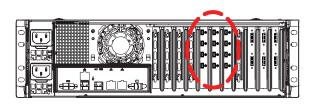


Display(Output) & Capture(Input)	Card - Cable Connection
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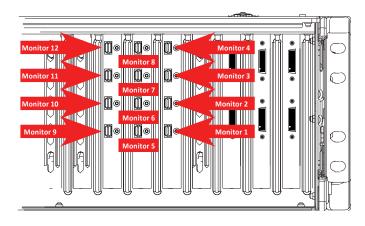




VZ-PRO12 - Display (Output) Card | Configuration



Three uD8-42 Display(Output) Cards



Monitors' connection: Monitor \rightarrow HDMI cable \rightarrow uD-HDMI cable \rightarrow Graphics card's output port.

Basically, VZ-PRO12 default setup is the 4x3 video wall configuration. Please see the below instruction to setup your monitor connection



uD-HDMI cables. (12 cables are included)

VZ-PRO12 - Windows desktops configuration.

When Windows 7 completes booting on VZ-PRO12, the CMS/MaxWall launches immediately but no contents are running – blank screens. Please press ESC/escape key to exit running MaxWall and return to Windows desktops.

VZ-PRO12 - Display (Output) - Video Wall Monitor Grouping

Monitor	Monitor	Monitor	Monitor
(D1-1)	(D1-2)	(D1-3)	(D1-4)
Monitor	Monitor	Monitor	Monitor
(D2-1)	(D2-2)	(D2-3)	(D2-4)
Monitor	Monitor	Monitor	Monitor
(D3-1)	(D3-2)	(D3-3)	(D3-4)

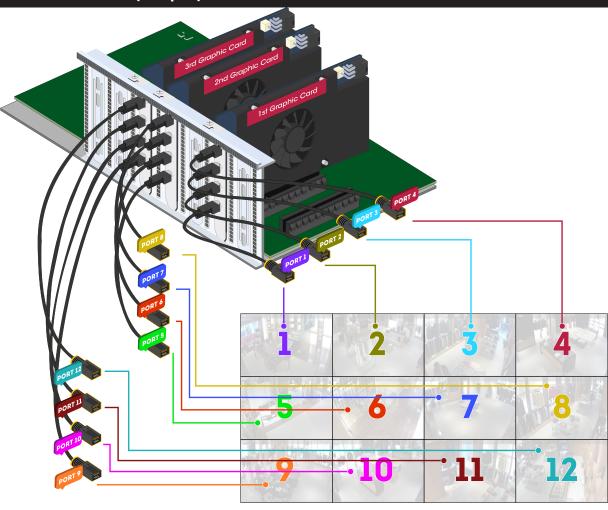
4x3 Video wall monitor layout / Monitor Cabling

4 x 3 Video wall

VZ-PRO12 - uD8 Cable (Output) Connection

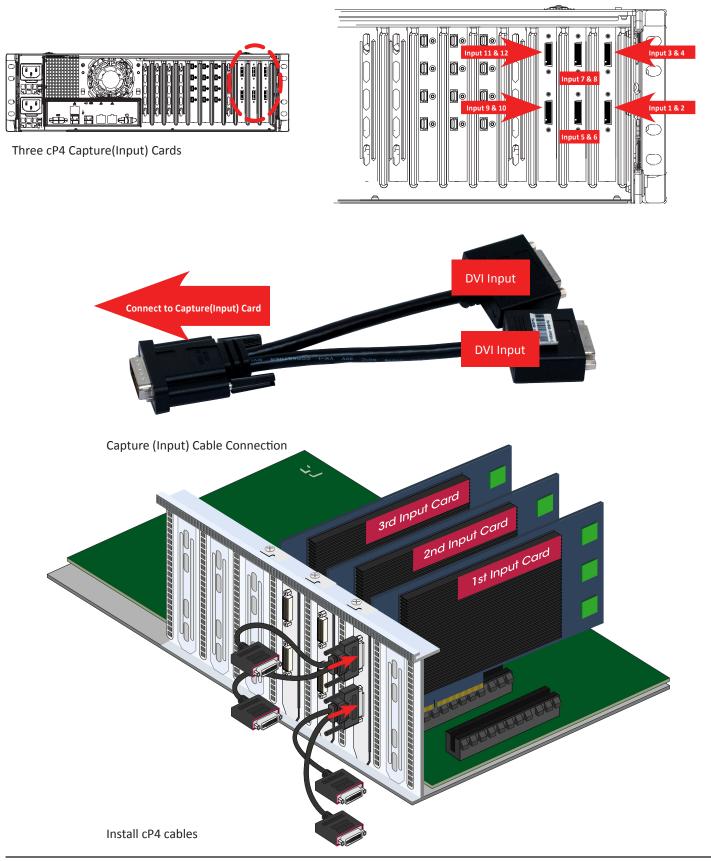
Video wall monitor group

Video wall monitor group 1
Video wall monitor group 2
Video wall monitor group 3
Video wall monitor group 4
Video wall monitor group 5
Video wall monitor group 6





VZ-PRO12 - Capture (Input) Card



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SW1

Capture (Input) Card Configuration | Capture Board ID

When more than one capture board is installed in VZ-PRO system, each capture board is recommended to have a unique Hardware ID.

The DIP Switch #1 located at back of capture board is for setting board ID.

Switch to ON, bit define as 0, Switch to OFF, bit define as 1. The board/card ID can be set from 0 to 15.

Card Number	SW1 [4]	SW1 [3]	SW1 [2]	SW1 [1]	Description	SW1 Board ID
0	ON	ON	ON	ON	Num.0 Card	
1	ON	ON	ON	OFF	Num.1 Card	cP4 Capture card - Board ID 1
2	ON	ON	OFF	ON	Num.2 Card	
3	ON	ON	OFF	OFF	Num.3 Card	
4	ON	OFF	ON	ON	Num.4 Card	
5	ON	OFF	ON	OFF	Num.5 Card	
6	ON	OFF	OFF	ON	Num.6 Card	
7	ON	OFF	OFF	OFF	Num.7 Card	in4 - Capture Source 0-3
8	OFF	ON	ON	ON	Num.8 Card	
9	OFF	ON	ON	OFF	Num.9 Card	
10	OFF	ON	OFF	ON	Num.10 Card	
11	OFF	ON	OFF	OFF	Num.11 Card	
12	OFF	OFF	ON	ON	Num.12 Card	in3 - Capture CP4 Capture card
13	OFF	OFF	ON	OFF	Num.13 Card	in2 - Capture Source 0-1
14	OFF	OFF	OFF	ON	Num.14 Card	in1 - Capture Source 0-0
15	OFF	OFF	OFF	OFF	Num.15 Card	₩e ^c

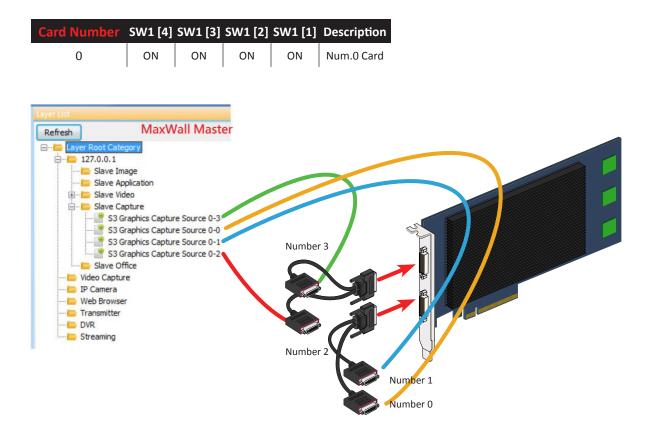
The port numbers are defined by MaxWall as shown below. Port Number = Board ID + Channel Number

For example, if the Board ID is set to 0, then its input port numbers are No.0 = 0-0 | No.1 = 0-1 | No.2 = 0-2 | No.3 = 0-3For example, if the Board ID is set to 4, then its input port numbers are No.0 = 4-0 | No.1 = 4-1 | No.2 = 4-2 | No.3 = 4-3For example, if the Board ID is set to 12, then its input port numbers are No.0 = 12-0 | No.1 = 12-1 | No.2 = 12-2 | No.3 = 12-3



Capture (Input) Card Configuration | Capture Board ID

An example: One Capture board configuration. (Support 4 inputs)



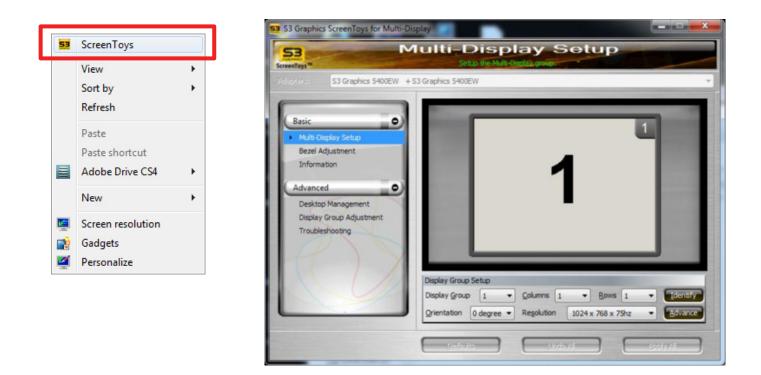
Ex: Capture Source 0-3 --> Board ID 0, Port No. 3

Configure Multi-Display Driver - Screen Toy Setup

After a successful driver installation or when you get the new VZ-PRO12, you are ready to configure your Multi-Display Driver to assign proper display mode - 4x2 or 2x2 or 4x4, accessible through the *S3 ScreenToys* configuration pages.

To access the S3 ScreenToys Multi-Display configuration settings:

1. Right click on an unpopulated area of the desktop. Select *S3 ScreenToys* to open the *S3 ScreenToys* utility pages or Right click on the S3 task-bar icon to bring up the *S3 ScreenToys* menu list.



Multi-Display Setup

After you install the driver or booting, the initial layout of the display groups is set based on the number of monitors connected.

The number of display groups equals the number of monitors connected. Each display group contains one monitor, 1 column x 1 row.



The display group layout consists of 10 display group, each display group has one monitor (1 column x 1 row). If you have 4, 8, 12 and 16 monitors, you can easily set it up based on below instruction.

Display group advanced setting		
		4
Daskey Group: Group:20: 1 Row(d) = 1 Column		Didegress
	Change the appearance of your displays	
	0 0 0 0 0 0 0 0 0 0	
	Digitey: 1. VEH7 • Baselution: 1800 × 1080 (recommended) • Qrientation: Landscape • Multiple displays: Extend desitop to this display •	
	This is currently your main display. Advanced settine Make text and other items larger or smaller	
	What display settings should I choose?	
	Circle Apply	

When you done with setup, you can see the above configuration window if setup correctly.

/ iew

To configure the display groups

Step 1. Launch the S3 ScreenToys utility by right clicking the desktop menu.

Step 2. Select the Multi-Display Setup page.

Step 3. Select 1 in the Group drop-list to configure settings for Display Group 1.

Step 4. Set the number of columns using the Columns drop-list. Set the number of rows using the Rows drop-list.

For 10-Display configuration, we will set up 4 groups. (One GPU supports one display group)

S3 Graphics ScreenToys for Multi-Dis	play		
M	ulti-Displ Setup the Multi-Di		Part
Adepters: S3 Graphics 5400EW + S3 Basic Multi-Display Setup Bezel Adjustment	Graphics 5400EW + S3 Graphic	cs 5400EW + S3 Graphics 54	00EW -
Desktop Management Display Adjustment Troubleshooting	1	2	3
	Display Group Setup Display Group 1 Qrientation 0 degrees	Columns 3 Regolution 1920 x 108	

Display group 1 set up



Display group 2 set up

S3 Graphics ScreenToys for Multi-Display			×
Energ	Iti-Display S Setup the Multi-Diploy group. hics 5400EW + S3 Graphics 5400EW + S		•
Basic • Multi-Display Setup Bezel Adjustment Information Advanced Desktop Management Display Adjustment Troubleshooting	4	5	2
De	play Group Setup splay Group 2 Columns 2 ientation 0 degrees Regolution	1920 x 1080 x 60hz	

Display group 3 set up

S3 Graphics ScreenToys for Multi-Di	splay		
	1ulti-Displa Setup the Multi-Displa		P
	3 Graphics 5400EW + S3 Graphics 5		00EW -
			
(Basic O)	-		_
Multi-Display Setup	CONTRACTOR OF A		and the second se
Bezel Adjustment Information			
(Advanced 0)	6	7	8
Desktop Management			
Display Adjustment Troubleshooting			STREET, STREET
Troubleshooting			and the second second
TT X			
	Display Group Setup		
	Display Group 3 • Co Orientation 0 degrees •		
	Sectored U degrees +	1920 X 100	A COM
	(before)	() rda Al	Apply 41

Display group 4 set up

S3 Graphics ScreenToys for Multi-Display	S3 Graphics ScreenToys for Multi-Display				
Mu	Iti-Display Setup the Multi-Display	Setup			
Ad byters: S3 Graphics 5400EW + S3 Grap	hics 5400EW + S3 Graphics 5400EW +	S3 Graphics 5400EW 👻			
Basic • Multi-Display Setup Bezel Adjustment Information Advanced Desktop Management Display Adjustment Troubleshooting	9	10			
Di	ientation 0 degrees Regolution	2 • Rows 1 • Identify 1920 x 1080 x 60hz • Adyanced			

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Configure Multi-Display Driver (cont'd) - 10 Monitor Configuration

Step 5. A Reboot Confirmation dialog will appear after you apply the new group settings. Click Yes to reboot your system. If you click No, the system will not reboot and the new settings will not be applied.



Step 6. After system reboots, in Win7, launch the **S3ScreenToy** again to finalize the group setup. You probably will see the group layout as shown below. Please use mouse to drag and drop each group to its final location as shown in screen shots below

Before adjustment

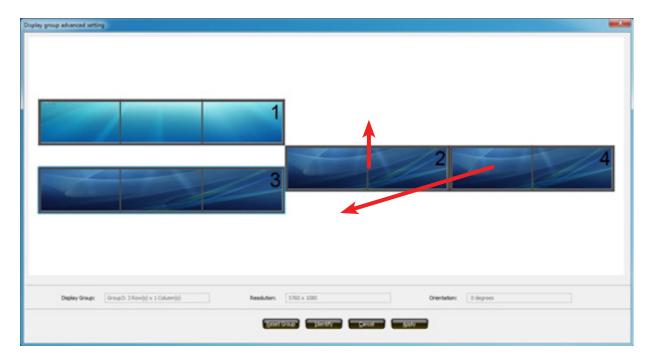


Moving groups by mouse

Display group advanced setting	
	2
Deplay Group: Group:3.38cm(d) x 1 Columi(d) Resolution: \$250 x 1080	Overlation: 0 degrees
(Seer Daug) (Seerally) (Second)	line -



After adjustment



isplay group advanced setting	
	2
3	4
Daplay Group (Group 1: 3 Row(s) x 1 Column(s) Resolution: (5760 x 1080	Orientation: 0 degrees
Buset Crack	