



Video Matrix
Instruction Manual Version 1.0.0
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This manual describes Video Matrix.

1.1. **Manual Organization**

This manual contains the following chapters:

- Chapter 2: Introduction to Video Matrix.
- Chapter 3: Configuration of Video Matrix.
- Chapter 4: Configuration of Video Matrix WebUI.
- Chapter 5: Start Video Matrix

2.1 Overview

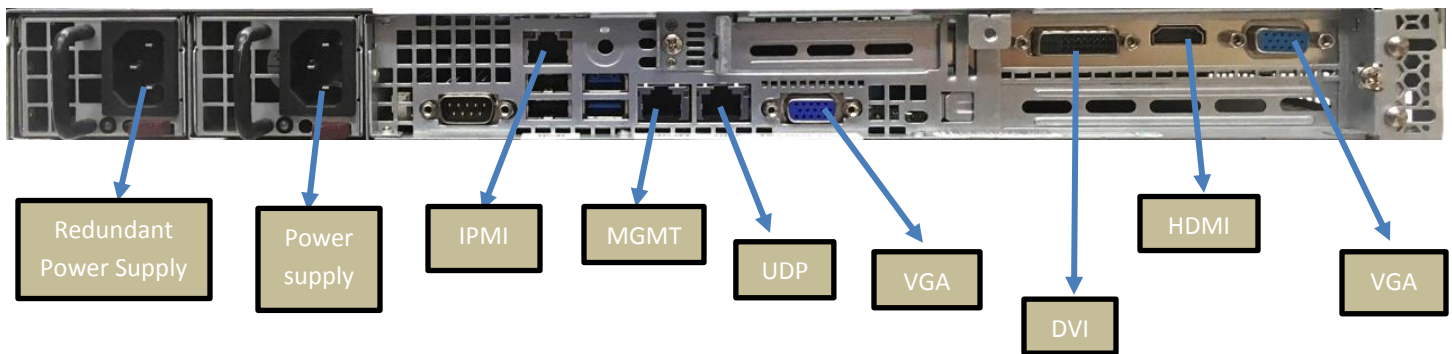
- Video wall is a software designed to route video signals from multiple input sources of HDMI or IP to one or more display devices, such as monitors, projectors, and TVs.
- Video wall is also known as Video matrix as a matrix (plural: matrices) is a rectangular array of numbers, symbols, or expressions, arranged in rows and columns.

2.2 Package Content

- The Video Matrix package contains the following items:
 - Video Matrix Server (1 RU)
 - Power Cord
 - Manual

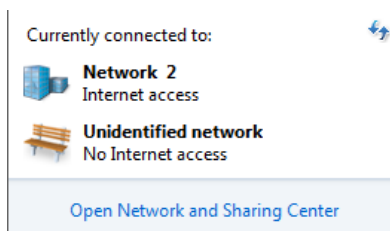
3.1 Hardware Setup

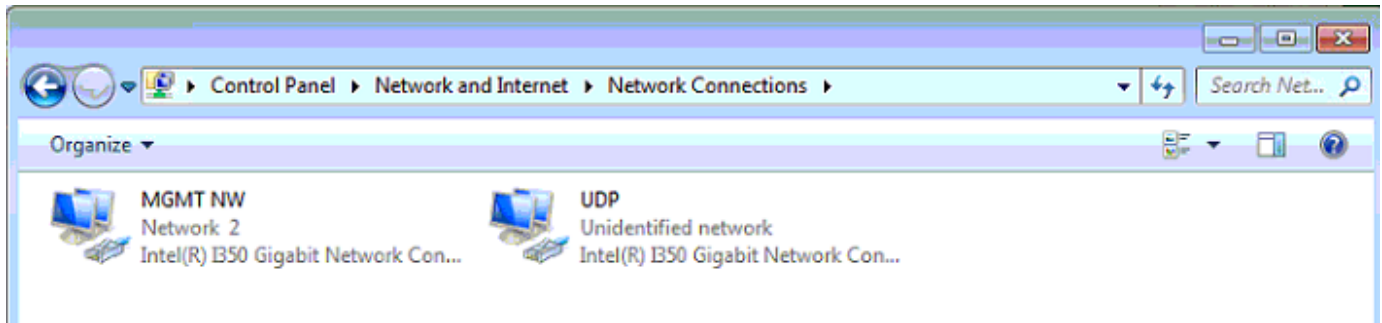
1. Remove the Ad Serter ASI from the box.
2. Connect the system to the A/C power.
3. Connect your cables from the system to a switch.
4. Connect your PC to the same switch.
5. Connect a monitor to HDMI port.
6. Connect keyboard.
7. Power up the system.
8. Configure IP ports.



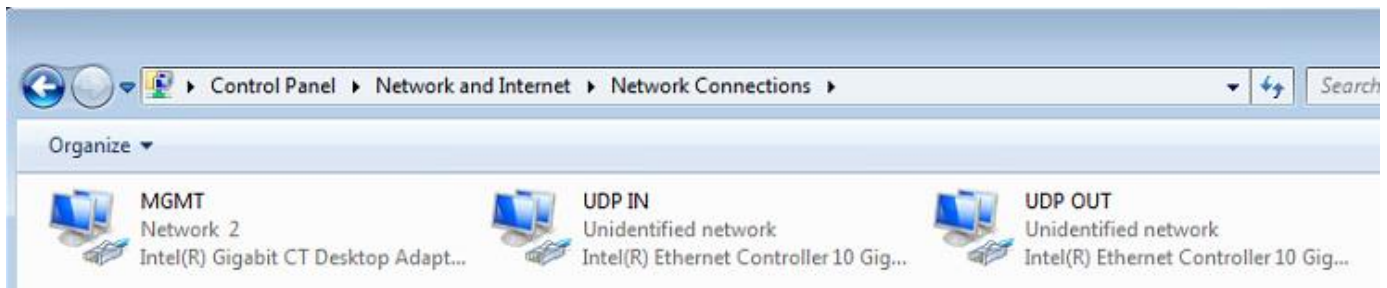
3.2 IP Port Settings

1. This system is based on the Win7 64 bit OS.
2. On the bottom right hand corner of the screen, click the network icon.
3. Clicking on the Network icon will give the option for Open Network and Sharing Center



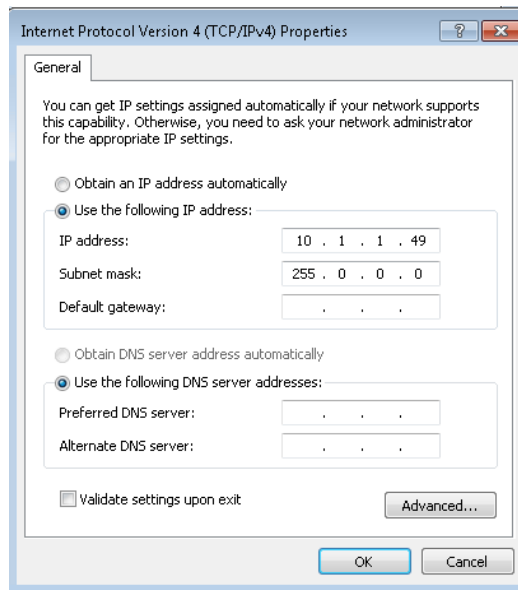
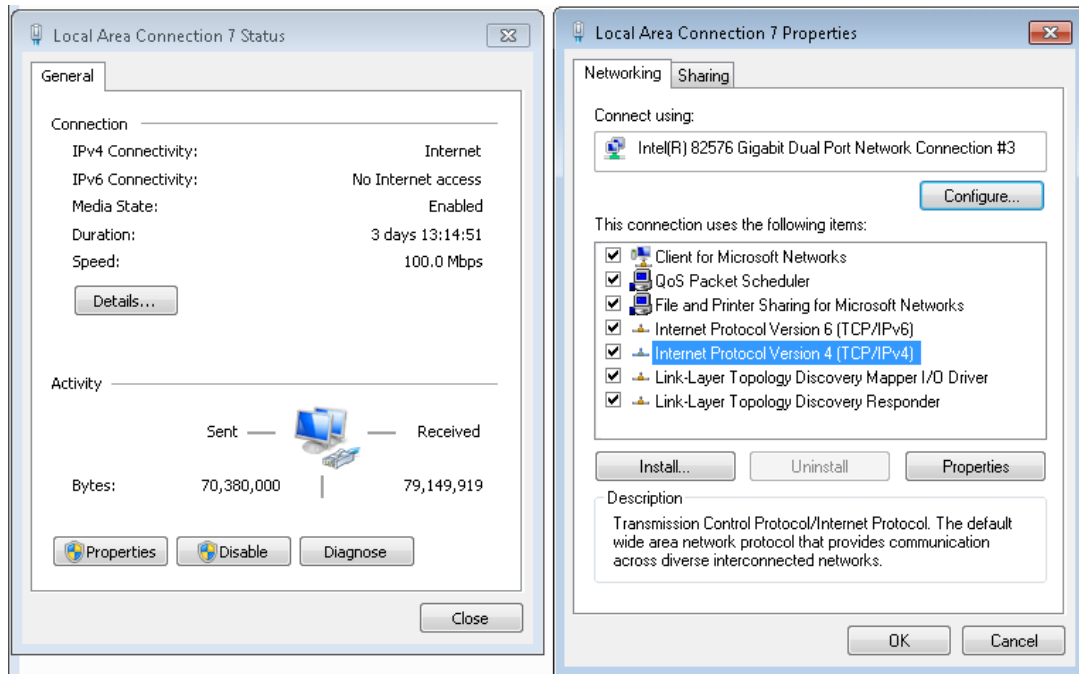


1 RU Unit with Management (WAN) and UDP (LAN) Ports

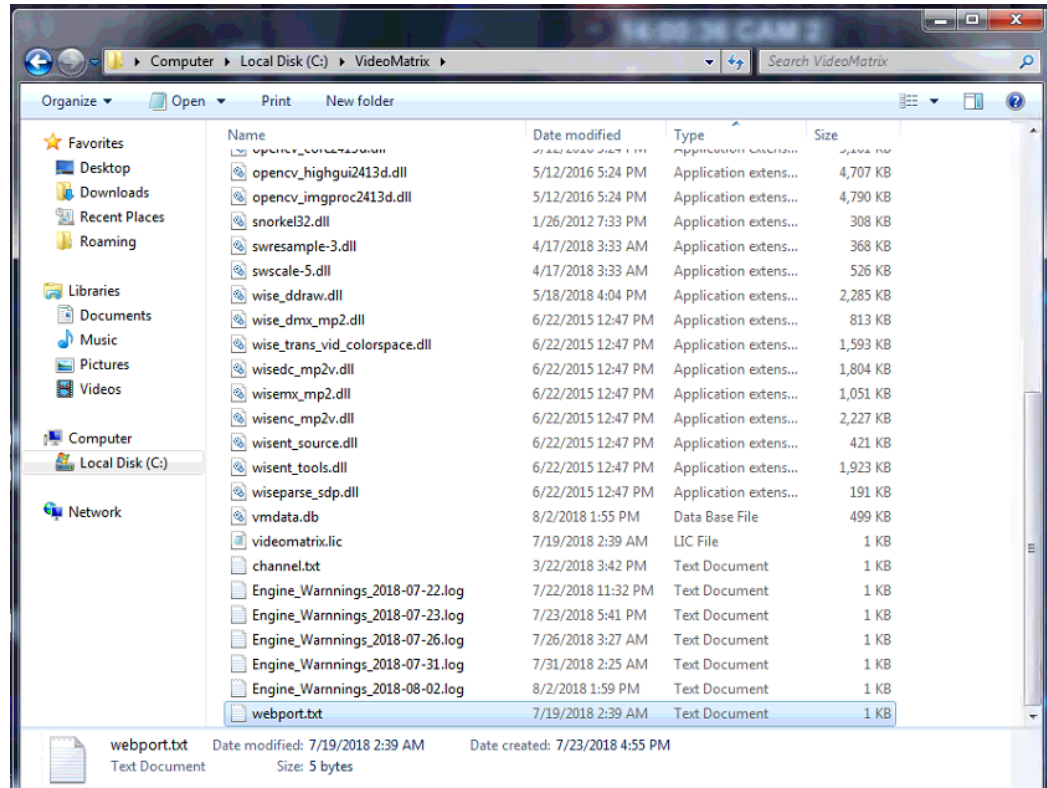


(1 or 3 RU Unit with Management (WAN) and UDP IN / UDP Out Ports)

4. Open Network and Sharing Center. -> Click on Change Adapter Settings.
5. Configure one Network connection for Wide Area Network connectivity for connecting the Ad Serter to the Internet for various management tasks.
6. Configure UDP IN network connection with static IP address for your Local Multicast Streaming Network. – Note down the IP address of this port. This will be used by Ad Serter to receive Input Video Streams.
7. Configure UDP OUT network connection with static IP address for your Local Multicast Streaming Network. - Note down the IP address of this port. This will be used by Ad Serter to send Output Video Streams.
8. Make sure that all 3 network ports are configured correctly.
9. Team viewer is already installed on Ad Serter. Once WAN port is working and connected to Internet, you can call DVEO for help with the further set up.
10. To access Ad Serter remotely, please configure your router to forward port 8000 to Ad Serter WAN port.

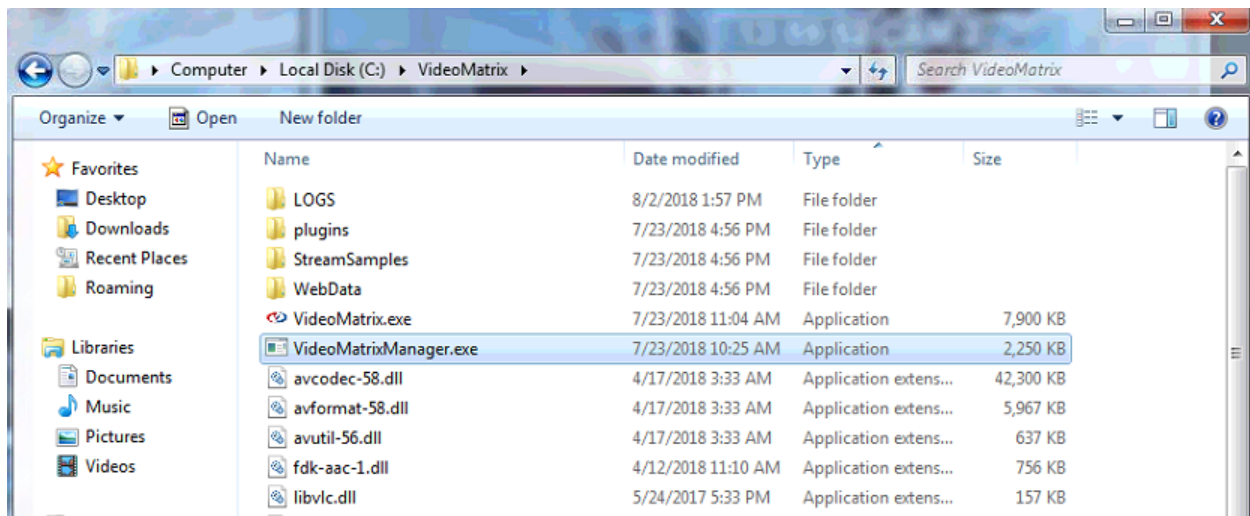


4.1 WebPort.txt



- Go to C:\VideoMatrix and open webport.txt file.
- Enter the port no. on which video matrix WebUI will run and save.

4.2 Video Matrix Manager



- Go to **C:\VideoMatrix** and double click **VideoMatrixManager.exe**
- Then open Chrome browser and type **localhost:xxxx** (where xxxx is the Webport which is saved in **webport.txt**)
- Video Matrix Web UI will be opened in browser.

START >

OUTPUT					
☒	UDP	UDP LINK	udp://@224.1.1.1:5858		
Video Codec	MPEG	Video BitRate	19000	Video Width	1920
Audio Codec	AAC	Audio BitRate	192	Video Height	1080

INPUT					
Rows	3	Columns	3	Display	☒
				Monitor	1

CELLS			
Position	LINK	Program	Name
[1 . 1]	udp://10.1.1.233@224.1.1.1:14001	1	CAM1
[2 . 1]	udp://10.1.1.233@224.1.1.1:14002	1	CAM2
[3 . 1]	udp://10.1.1.233@224.1.1.1:14003	1	CAM3
[1 . 2]	udp://10.1.1.233@224.1.1.1:14004	1	CAM4
[2 . 2]	udp://10.1.1.233@224.1.1.1:14005	1	CAM5
[3 . 2]	udp://10.1.1.233@224.1.1.1:14006	1	CAM6
[1 . 3]	udp://10.1.1.233@224.1.1.1:14007	1	CAM7
[2 . 3]	udp://10.1.1.233@224.1.1.1:14008	1	CAM8
[3 . 3]	udp://10.1.1.233@224.1.1.1:14009	1	CAM9

ALERT SETTINGS	
Font	Arial
Size	150

5.1 Output

OUTPUT					
☒	UDP	UDP LINK	udp://@224.1.1.1:5858		
Video Codec	MPEG	Video BitRate	19000	Video Width	1920
Audio Codec	AAC	Audio BitRate	192	Video Height	1080

- Select **UDP** from the first dropdown option and check the box.
- **UDP LINK**: Enter the udp link on which Video Matric will work.
- Select Video Codec '**MPEG**' from the dropdown option.
- Select Audio Codec '**AAC**' from the dropdown option.
- **Video Bitrate**: Enter video bitrate.
- **Audio Bitrate**: Enter audio bitrate.
- **Video Width**: Enter video width.
- **Video Height**: Enter video height.

5.2 Input

INPUT					
Rows	3	Columns	3	Display	☒
				Monitor	1

- **Rows**: Enter number of rows of Video Matrix.
- **Columns**: Enter number of columns of Video Matrix.
- Check Display option box.
- **Monitor**: Enter number of monitoring screen

5.3 Cells

CELLS				
Position	LINK		Program	Name
[1 . 1]	udp://10.1.1.233@224.1.1.1:14001		1	CAM1
[2 . 1]	udp://10.1.1.233@224.1.1.1:14002		1	CAM2
[3 . 1]	udp://10.1.1.233@224.1.1.1:14003		1	CAM3
[1 . 2]	udp://10.1.1.233@224.1.1.1:14004		1	CAM4
[2 . 2]	udp://10.1.1.233@224.1.1.1:14005		1	CAM5
[3 . 2]	udp://10.1.1.233@224.1.1.1:14006		1	CAM6
[1 . 3]	udp://10.1.1.233@224.1.1.1:14007		1	CAM7
[2 . 3]	udp://10.1.1.233@224.1.1.1:14008		1	CAM8
[3 . 3]	udp://10.1.1.233@224.1.1.1:14009		1	CAM9

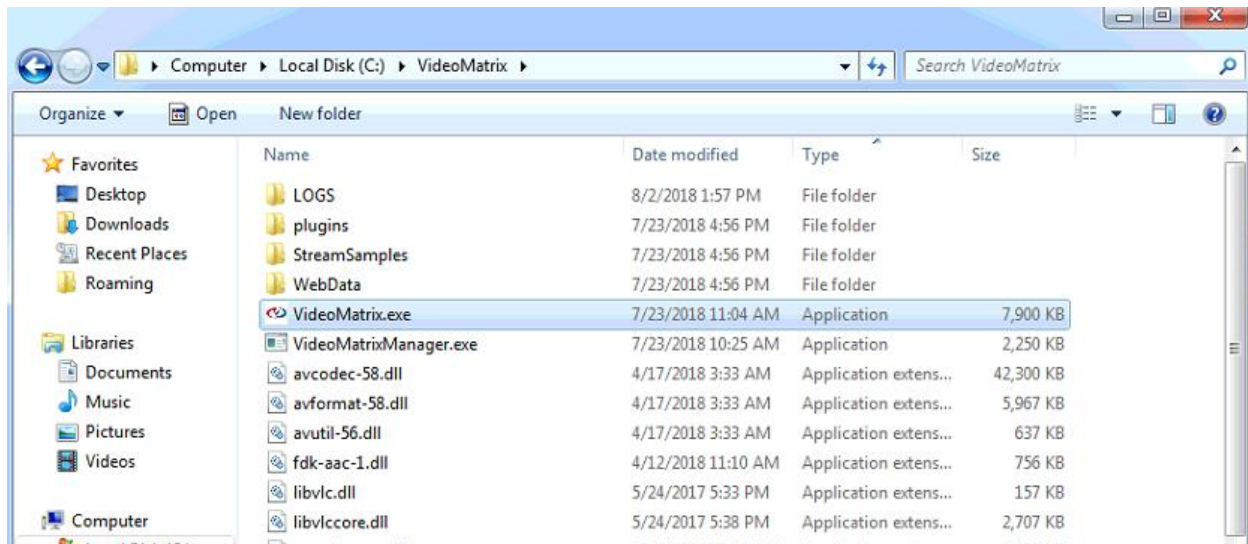
- **Position:** column is automatically filled as per row and column no.
- **LINK:** Enter the udp links that will be streaming in Video Matrix window.
- **Program:** Enter value 1 to each LINK.
- **Name:** Each LINK name. example: CAM1, CAM2 etc

5.4 Alert Settings

ALERT SETTINGS						
Font	Arial	Size	150	☒ B	☐ I	☐ U
Color	#FFFFFF	Background	#999999	Transparency	150	Position BOTTOM RIGHT

- **Font:** Select Font from the dropdown option.
- **Size:** Enter font size.
- **Color:** Click on color box option and select the color.
- **Background:** Click on background box option and select the background color.
- **Transparency:** Enter transparency.
- **Position:** Select position from drop down option.

6.1 Starting of Video Matrix



- Go to **C:\VideoMatrix** and double click VideoMatrix.exe or Double click Videomatrix.exe shortcut on desktop.
- **Video Matrix** will be started as below image.

