



DS-MSC14 Cascadable 1 to 4 multi-screen controller





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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

VERSION NO.	DATE	SUMMARY OF CHANGE
v1.00	10/02/2015	First release
v1.01	10/02/2015	Updated text and Diagrams
v1.02	19/06/2015	Updated features text and amended RS-232 Commands
v1.03	30/06/2015	Updated Introduction text

REVISION HISTORY





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1. INTRODUCTION

The 1 by 4 HDMI TV Wall controller allows an HDMI input source to be displayed, in full screen or single mode, on up to 4 HDMI displays (TV or monitor). Multiple units can be cascaded to extend the HDMI signal up to as many displays as needed. The unit features bezel correction function. A simple control application enables users to control single or multiple units. The device supports video timings up to WUXGA@60RB and 1080p@60Hz, audio format up to 7.1CH LPCM at 192kHz sampling rate based on input source EDID. Control can be achieved through software application, Telnet and RS-232.

2. APPLICATIONS

- III Instore video walls
- Public advertising displays
- Boardroom digital presentation
- Stock market 'ticker' displays

3. PACKAGE CONTENTS

1×1 to 4 Multi-screen Controller 1×12V/3 A DC Power Adaptor 1×Operation Manual

4. SYSTEM REQUIREMENTS

Source equipment such as DVD/Blu-ray players and any HDMI equipped output HD TVs/displays.

Note: Additional units are required for Video Wall arrays with more than 4 screens (2×2 Video Wall).





5. FEATURES

III HDMI, HDCP1.4 and DVI compliant

Output source signal to 4 displays (2 by 2 Video wall) as a full screen or single image with adjustable Bezel Correction

- III Cascade the HDMI signal up to as many as required
- Software application allows one button push to control all connected TV Wall devices

III Supports RS232 and Telnet controls

III Input resolutions support VGA~WUXGA and 480i~1080p

- Output resolutions support 720p~1080p
- Supports different input resolution and output resolution selectable from OSD menu. The factory default output resolution is native to the connected screen.
- Audio supports LPCM 2CH, 6CH, 8CH/AC3/DTS/Dolby Digital Plus/ Dolby TruHD & DTS-HD

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6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel













6.3 RS-232 Protocols

HDMI SPLITTER		
Pin	Definition	
1	NC	
2	TxD	
3	RxD	
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	

RS-232 CO	RS-232 CONTROL (PC)					
Pin	Definition					
1	NC					
2	RxD					
3	TxD					
4	NC					
5	GND					
6	NC					
7	NC					
8	NC					
9	NC					

Baud Rate: 115200bps Data Bit: 8 bits Parity: None Flow Control: None Stop Bit: 1





6.4 RS-232 and Telnet Commands

ITEM	COMMAND	DESCRIPTION	PARAMETER
Resolution	RRES	Request resolution	0=720p@50
	SRES 0~16	Set resolution	1=720p@60
			2=1080p@24
			3=1080p@25
			4=1080p@30
			5=1080p@50
			6=1080p@60
			7=1024x768@60
			8=1280x800@60
			9=1280x1024@60
			10=1366x768@60
			11=1440x900@60
			12=1600x900@60
			13=1600x1200@60
			14=1680x1050@60
			15=1920x1200@60
			16=Native
OSD	ROSDD	Request OSD status	0= Off
	SOSDD 0/1	Set OSD status	1=On
	ROSDH	Request OSD	0~20 (5)
		horizontal position	
	SOSDH 0~20	Set OSD horizontal	
		position	
	ROSDV	Request OSD vertical	0~20 (5)
		position	
	SOSDV 0~20	Set OSD vertical	
		position	





ITEM	COMMAND	DESCRIPTION	PARAMETER	
OSD (Cont.)	ROSDT	Request OSD display	0~50 (50)	
		timeout setting	0=Timeout off	
	SOSDT 2~50	Set OSD display		
		timeout in second		
	ROSDG	Request OSD gain correction	0~10 (2)	
	SOSDG 0~10	Set OSD gain correction		
	SOSDI	Set OSD information	On/ Off	
		status		
	SOSDR	Reset OSD to factory		
		default		
Image	RBRI 1~4	Request brightness	1~4=Output A~D	
	SBRI 1~4 0~100	Set brightness	0~100=Brightness	
			value (50)	
	RCON 1~4	Request contrast	1~4=Output A~D	
	SCON 1~4 0~100	Set contrast	0~100=Contrast value	
	RSAT 1~4	Request saturation	1~4=Output A~D	
	SSAT 1~4 0~100	Set saturation	0~100=Saturation value (50)	
	RHUE 1~4	Request hue	1~4=Output A~D	
	SHUE 1~4 0~100	Set hue	0~100=Hue value (50)	
	SIMRE 1~4	Reset picture setting	1=Brightness	
			2=Contrast	
			3=Saturation	
			4=Hue	
	SPIRE	Reset all picture		
		setting		





ITEM	COMMAND	DESCRIPTION	PARAMETER
Ethernet	RIPM	Request IP mode	0= DHCP
	SIPM 0/1	Set IP mode	1=Static
	RIPA	Request IP address	IP ADDR:IPA3.IPA2.
	SIPA 0~255.0~255. 0~255.0~255	Set IP address	IPA1.IPA0
	RMAA	Request Mask address	Mask ADDR:MAA3. MAA2.MAA1.MAA0
	SMAA 0~255.0~255. 0~255.0~255	Set Mask address	
	RGAA	Request Gateway address	Gate ADDR:GAA3. GAA2.GAA1.GAA0
	SGAA 0~255.0~255. 0~255.0~255	Set Gateway address	
	RETIME	Request Ethernet timeout	0= Off 1=10min
	SETIME 0~6	Set Ethernet timeout	2=20min 3=30min 4=40min 5=50min 6=60min
	RLINK	Read link	IP000~255 IP010~255 IP020~255 IP030~255 MA000~255 MA010~255 MA020~255 GA000~255 GA010~255 GA010~255 GA020~255 GA030~255



ITEM	COMMAND	DESCRIPTION	PARAMETER	
System	RMUTE	Request mute status	0=Unmute	
	SMUTE 0/1	Set mute status	1=Mute	
	RPOW	Request power status	0=Power off	
	SPOW 0/1	Set power status	1=Power on	
	RVER	Request version		
	SREL	Set re-link		
	SDEF	Reset to factory default		
TV Wall	RMNC 1~4	Request TV wall output value	1~4=Output A~D M=TV Wall M value	
	SMNC M N 1~4	Set TV wall output value	N=TV Wall N value	
	RCO 1~4	Request output TV wall position	1~4=Output A~D TV Wall position (M×N)	
	SCO 1~4 Y	Set output TV wall position		
	RCBH 1~4	Request H Bezel Value	1~4=Output A~D 0~255=H bezel	
	SCBH 1~4 0~255	Set Output H Bezel Value	correction value	
	RCBV 1~4	Request V Bezel Value	1~4=Output A~D	
	SCBV 1~4 0~255	Set Output V Bezel Value	0~255=V bezel correction value	
	RBEZ	Request Bezel status	0=Bezel off	
	SBEZ 0/1	Set Bezel status	1=Bezel on	

ITEM	COMMAND	DESCRIPTION	PARAMETER	
TV Wall (Cont.)	RMDN	Request unit's model no.	0~225=Model number setting value	
	SMDN 0~255	Set unit's model no.		
	SWDE	Reset TV wall value		
	SHOT 0~23	Set hot setting	0= 1×1 , 1=2×2	
			2=3×3, 3=4×4	
			4=5×5, 5=6×6	
			6=2×3, 7=3×2	
			8=3×4, 9=4×2	
			10=4×3, 11=4×5	
			12=1×2, 13=2×1	
			14=1×3, 15=3×1	
			16=1×4, 17=4×1	
			18=2×4, 19=3×5	
			20=5×4, 21=5×3	
			22=6×2, 23=6×3	
	SFAVE 1~5	Save favor setting	1~5=FAV 1~FAV 5	
	RFAVE 1~5	Recall favor setting		
	RBY	Request cascade	0=Not cascade	
		setting	1=Cascade	
	SBY 0/1	Set cascade		
		setting		

Note:

- 1. Commands will be not executed unless followed by a carriage return (0x0D). Commands are case-sensitive.
- 2. RS-232 control can only be used with a single Videl Wall unit and can not be used to control additional connected units.
- 3. Values in **Bold** are the default settings.



6.5 Telnet Control

Before attempting to use the Telnet control, please ensure that both the HDMI Video Wall unit (via the 'CONTROL' port) and the PC/Laptop are connected to the active networks.

To access the Telnet control in Windows 7, click on the 'Start' menu and type "cmd" in the Search field then press Enter. Under Windows XP go to the 'Start' menu and click on "Run", type "cmd" with then press Enter.

Under Mac OS X, go to Go \rightarrow Applications \rightarrow Utilities \rightarrow Terminal. See below for reference.



Once in the command line interface (CLI) type 'telnet', then the IP address of the unit and hit Enter. If the Telnet port (unit's port) is not set to the default of "23" then the correct port number will need to be entered after the IP address as shown below.

Microsoft Copyright	Windows [(c) 2009	Version 6. Microsoft	.1.7600] Corporation.	A11	rights	reserved.
C:\Users\(CYP>telnet	192.168.	5.80 23_			





This will bring us into the unit which we wish to control. Type 'HELP' to list the available commands.

RRES	
SRES	
ROSDD	
SOSDD	
ROSDH	
SOSDH	
ROSDŲ	
SOSDV	
ROSDT	
SOSDT	
ROSDG	
SOSDG	
SOSDI	
SOSDR	
RBRI	
SBRI	
RCON	
SCON	
RSAT	
SSAT	
RHUE	
SHUE	
SIMRE	
SPIRE	
RIPM	
SIPM	
RIPA	
SIPA	
RMAA	
SMAA	
RGAA	
SGAA	
RETIME	
SETIME	
RLINK	
RMNC	

Note:

- 1. All the commands will be not executed unless followed by a carriage return. Commands are case-insensitive.
- 2. If the IP is changed then the IP Address required for Telnet access will also change accordingly.





6.6 PC Application Control

Navigate to the 1 by 4 HDMI Video Wall Splitter product page to download the software application installer.

Warning: Before installing, please uninstall any previous versions of the software application.

Double click on the downloaded file to install the software. Once the application has installed successfully, click and open the application.

-System Settin	gs	Connect Interfa	ce	––––– Network Configuration ––––––		
Power	E ALL IP	Connect	Disconnect	Get IP	Address Type	•
Factory Reset		MAC :	•	Set IP	IP Address	
Refresh	Search MAC	Model No.	•	Re-Link	Default Gateway	
TV Wall (1)	TV Wall Setu Bezel Correctio	p CON COFF	E ALL IP			
TV Wall (2)	1x1	2x2	3x3	4x4	5x5	6x6
TV Wall (3)	2x3	3x2	3x4	4x2	4x3	4x5
TV Wall (4)	1x2	2x1	1x3	3x1	1x4	4x1
I/O Setup	2x4	3x5	5x4	5x3	6x2	6x3
Image Adjust						

Search MAC: When the Video Wall unit is powered on or the network connection is reset, click on this button so that any Video Wall units attached to the network can be discovered.





System Setting	gs	-Connect Interface	e	Network Cor	figuration	
Power ON	ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -
Factory Reset	-2 ALL IP	MAC : F8:22:85:00	.03:28 🗸	Set IP	IP Address	192.168.000.102
Refresh	Search MAC	Model No. 0	•	Re-Link	Net Mask Default Gateway	192.168.000.001
3	TV Wall Setu	р				
TV Wall (1)	Bezel Correctio	n 🕫 ON C OFF	T ALL IP			
TV Wall (2)	1x1	2x2	3x3	4x4	5x5	6x6
TV Wall (3)	2x3	3x2	3x4	4x2	4x3	4x5
TV Wall (4)	1x2	2x1	1x3	3x1	1x4	4x1
I/O Setup	2x4	3x5	5x4	5x3	6x2	6x3
Image Adjust						

6.6.1 System Settings

Power On: Click on this button to switch the Video Wall unit on. To switch all units on, click "ALL IP" and then "Power ON".

Pactory Reset: Click on this button to reset the Video Wall unit back to default settings. To switch all units back to default setting click "ALL IP" and then "Factory Reset".

3 **Refresh:** This button will refresh the selected Video Wall unit's pages except for Image Adjustment page.

Note: Image Adjustment settings can only be refreshed by clicking on the Refresh button on the page.

Search MAC: Click on this button to discover any Video Wall units that are connected to the network.





6.6.2 Connect Interface



Connect: Click on this button to establish the link with the 'TV Wall Set'.

2 Disconnect: Click on this button to terminate the link between the Video Wall unit and the 'TV Wall Set'.

3 MAC: Click on this drop-down menu to show the available Video Wall units and select any MAC addresses to connect to. Settings will refresh automatically.

4 Model No.: When more than one Video Wall unit is in use, it is important that Model No. is set correctly order to split and arrange the image correctly.

6.6.3 Network Configuration

System Settings	Connect Interface Network	Configuration
Power ON 🗖 ALL IP	Connect Disconnect Get IP	Address Type DHCP -
Factory Reset 🔲 ALL IP	MAC: E8:22:85:00:03:28 2 Set IP	IP Address 192.168.000.1 02
		Net Mask 255.255.255.000
Refresh Search MAC	Model No. 0 Re-Link	Default Gateway 192.168.000.001
		4

1 Get IP: Click on this button to get the current IP link status.

2 Set IP: To change the IP settings, click on this button and type the required IP Address, Net Mask and Default Gateway.

3 Re-Link: When the IP settings are done, click on this button to reset the IP link.

Address Type: Click on this drop-down menu to change the address type (DHCP/Static).





System Settings Connect Interface		9	Network Cor	figuration		
Power ON	T ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -
Factory Reset	I ALL IP	MAC: F8:22:85:00	:03:28 🔻	Set IP	IP Address	192.168.000.102
Refresh	Search MAC	Model No. 0	•	Re-Link	Default Gateway	192.168.000.001
TV Wall (1)	TV Wall Setu Bezel Correctio	p 1 n c on c off		0		
TV Wall (2)	1x1	2x2	3x3	4x4	5x5	6x6
TV Wall (3)	2x3	3x2	3x4	4x2	4x3	4x5
TV Wall (4)	1x2	2x1	1x3	3x1	1x4	4x1
I/O Setup	2x4	3x5	5x4	5x3	6x2	6x3
Image Adjust						[*]

6.6.4 TV Wall Setup (1)

- 1 Bezel Correction: Allows the video wall's image to be adjusted to compensate for the screen bezel size. Click on "ALL IP" to activate Bezel Correction on all Video Wall units.
- 2 Fast TV Wall Setting: These buttons are pre-set options, click to set the desired pre-configured option.





6.6.5 TV Wall Setup (2)

System Settings Connect Interface		Network Co	nfiguration ——		
Power ON 🗖 ALL I	P Connect	Disconnect	Get IP	Address Type	DHCP -
Factory Reset 🗖 ALL I	P MAC : F8:22:	85:00:03:28 🗸	Set IP	IP Address	192.168.000.102
Refresh Search M	IAC Model No. 0	•	Re-Link	Default Gateway	192.168.000.001
TV Wall (1)	Il Setup		Column	Out Position	,
TV Wall (2)	al setup	1~15 •	1~15 •	1~MxN -	Send
TV Wall (3)	t Ch.4 Bypass 💿 ON 🛛	OFF			
TV Wall (4)	Out A ection 10 💌	Out B	Out C	Out D	Send
I/O Setup	ection 10 💌	10 •	10 💌	10 •	Reset
Image Adjust					'

- Manual Setup: Allows the user to individually set up outputs A to D in a specific horizontal and vertical positions (1~15).
- **2** Output CH.4 Bypass: Allows the Video Wall unit's output D to be set to cascade to additional units for larger video walls.
- 3 H and V Correction: Allows the horizontal and vertical positions of each output channel to be adjusted to compensate for the screen bezel size.





System Settings Connect		-Connect Interfa	ce	-Network Cor	figuration	
Power ON	I ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -
Factory Reset	I ALL IP	MAC : F8:22:85:0	0:03:28 🗸	Set IP	IP Address	192.168.000.102 255.255.255.000
Refresh	Search MAC	Model No. 0	•	Re-Link	Default Gateway	192.168.000.001
TV Wall (1)	TV Wall Setu	p	OutB	Out C	Out D	- 0
TV Wall (2)	H Start Value	Value	Value	Value	Value	Refresh
TV Wall (3)	H End Value	Value	Value	Value	Value	Reset
TV Wall (4)	V Start Value	Value	Value	Value	Value	l 6
I/O Setup	V End Value	Value	Value	Value	Value	
Image Adjust	`					

6.6.6 TV Wall Setup (3)

- **1** H and V Start/End Value: Allows the user to individually adjust the horizontal and vertical positions (0~225) of each of the outputs A to D.
- **2 Refresh:** This button will refresh the H and V Setup page only.
- 3 **Reset:** This button will reset all the settings of the H and V Setup page back to factory default values.





6.6.7 TV Wall Setup (4)

System Settings Connect Interface		Network Confi	guration
Power ON 🗖 ALL IP	Connect Disconnect	Get IP	Address Type DHCP -
Factory Reset 🕅 ALL IP	MAC: F8:22:85:00:03:28 -	Set IP	IP Address 192.168.000.102
Refresh Search MAC	Model No. 0	Re-Link	Default Gateway 192.168.000.001
TV Wall (1) TV Wall (2) TV Wall (2) TV Wall (3)	II Settings	FAV 4	FAV 5
TV Wall (4)	all Settings		₁
I/O Setup	FAV 2 FAV 3	FAV 4	FAV 5
Image Adjust			_

- 1 Save TV Wall Settings: These buttons will store the current video wall settings to favorite slots from FAV 1 to FAV 5. When all adjustments are complete, click the desired slot number to store the settings for later recall.

2 Recall TV Wall Settings: These buttons will recall the stored video wall settings from FAV 1 to FAV 5. Click the desired slot number to recall the settings.





System Settin	ngs	Connect Interface	e	Network Con	figuration	
Power ON	IT ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -
Factory Reset	C ALL IP	MAC: F8:22:85:00	.03:28 🗸	Set IP	IP Address	192.168.000.102
Refresh	Search MAC	Model No. 0	•	Re-Link	Net Mask Default Gateway	192.168.000.001
TV Wall (1)	I/O Setup Output Reso	lution	OSD H Offset		Mute	9
TV Wall (2)	1080p60	▼ □ ALL IP	5	 ALL IP 	C ON G	OFF 🗆 ALL IP
TV Wall (3)	OSD Auto Di	splay	OSD V Offset	- ALL IP	OSD Info	• -3
TV Wall (4)	i i				Refresh	-4
I/O Setup	OSD Display	Timeout	OSD Gain Corr	ection	Reset	-6
Image Adjust						

6.6.8 I/O Setup

- **Output Resolution:** Allows the user to set the Output Resolution. Click "ALL IP" to make adjustments to all connected Video Wall units simultaneously. Parameters and default values are as listed in RS-232 commands listing (see Section 6.4 for details).
- OSD Menu Adjustment: Allows the user to make adjustments to the OSD menu. Click "ALL IP" to make adjustments to all connected Video Wall units simultaneously. Parameters and default values are as listed in RS-232 commands listing (see Section 6.4 for details).
- 3 Refresh: This button will refresh the I/O Setup page only.
- Reset: This button will reset all the settings of the I/O Setup page back to factory default values.

25



6.6.9 Image Adjust

System Settings		Connect	Interface —		Network Con	figuration	I	
Power ON	ALL IP	Conn	ect Disc	connect	Get IP	Address Ty	ype DHC	P v
Factory Reset	ALL IP	MAC: F	8:22:85:00:03:2	28 🗸	Set IP	IP Address	192.	168.000.102
Refresh S	earch MAC	Model No	0 •		Re-Link	Default Ga	192.	168.000.001
TV Wall (1)	Image Adjus	st		<u> </u>				0
TV Wall (2)	Brightness 0	OUT A	OUT B	OUT C	OUT D	Reset	T ALL IP	Picture Reset
TV Wall (3)	Contrast 0	~100 -	0~100 💌	0~100 💌	0~100 💌	Reset	T ALL IP	Refresh
TV Wall (4)	Saturation 0	~100 -	0~100 🗸	0~100 🗸	0~100 -	Reset	T ALL IP	8
I/O Setup	Hue 0	~100 🗸	0~100 💌	0~100 💌	0~100 💌	Reset	□ ALL IP	
Image Adjust							'	

- **1** Brightness, Contrast, Saturation and Hue Adjustment: Allows the user to set the Image Adjustment parameters. Click "ALL IP" to make adjustments to all connected Video Wall units simultaneously. Parameters and default values are as listed in RS-232 commands listing (see Section 6.4 for details).

2 Picture Reset: This button will reset all the settings of the Image Adjustment page back to factory default value.

B Refresh: This button will refresh the Image Adjustment page only.





7. CONNECTION DIAGRAM

Example 1: 2x2 Screen Configuration







Example 2: 3x3 Screen Configuration



3×3 TVs/Displays (Total 9 Screens)





8. SPECIFICATIONS

8.1 Technical Specification

Video Bandwidth	225 MHz/6.75 Gbps
Input Ports	1×HDMI (Female type), 1×Control (RJ45), 1×RS-232 (D-sub 9-pin), 1×USB (Service only)
Output Ports	4×HDMI (Female type)
HDMI Cable Distance	15m@1080p/8-bit 10m@1080p/12-bit
HDMI Audio Sampling Rates	Up to 192 kHz
ESD Protection	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Power Supply	12V/3 A DC (US/EU standards, CE/FCC/UL certified)
Dimensions	436mm (W)×249mm (D)×44mm (H)/ Jacks Excluded 436mm (W)×256mm (D)×49mm (H)/ Jacks Included
Weight	2815 g
Chassis Material	Metal
Colour	Black
Operating Temperature	0 °C~40 °C/32 °F~4 °F
Storage Temperature	–20 °C~60 °C/–4 °F~140 °F
Relative Humidity	20~90% RH (non-condensing)
Power Consumption	12.3W



8.2 Supported Resolution

INPUT RESOLUTION	OUTPUT RESOLUTION
480i@59	720p@50
480p@60	720p@60
576i@50	1080p@24
576p@50	1080p@25
720p@50/60	1080p@30
1080i@50/60	1080p@50
1080p@24/50/60	1080p@60
640×480@60/72/75/85	1024×768@60
800×600@56/60/72/75/85	1280×800@60
1024×768@60/70/75/85	1280×1024@60
1280×768@60/75	1366×768@60
1280×1024@60/75	1440×900@60
1360×768@60	1600×900@60 (RB)
1366×768@60	1600×1200@60
1600×1200@60	1680×1050@60
1920×1200@60	1920×1200@60 (RB)





9. ACRONYMS

ACRONYM	COMPLETE TERM
CLI	Command Line Interface
DTS	Digital Theater System
DVI	Digital Visual Interface
EDID	Extended Display Identification Data
GUI	Graphical User Interface
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
HDTV	High-Definition Television
OSD	On-Screen Display
USB	Universal Serial Bus
VGA	Video Graphics Array
WUXGA	Widescreen Ultra Extended Graphics Array





CYP (UK) Ltd., Unit 7, Shepperton Business Park, Govett Avenue, Shepperton, Middlesex, TW17 8BA

Tel: +44 (0) 20 3137 9180 | Fax: +44 (0) 20 3137 6279

Email: sales@cypeurope.com

www.cypeurope.com

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