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THE ULTIMATE VISUAL SOLUTIONS FOR ALL REQUIREMENTS.

LUCIDITY VIDEO WALL CONTROLLER

LUCIDITY
Developed by ULTIMATE Visual Solutions

Controller Features

Lucidity video wall controllers come equipped as standard with redundant Hot Swap power supplies, RAID1 Solid State drives and built for 24/7/365 operation with high performance and unbeatable reliability in mind.

All of our controllers are compatible with the Lucidity Wall Manager control software and can be configured to view and recall a wide range of source types including; website information, RSS feeds / message boxes, IP video, HDMI type sources and remote desktop capture. The WBC90 & 110 also have very large expansion capabilities with the use of expansion racks.

Find all the detailed specifications for our WBC models below:

WBC10

This entry level controller is designed for showing multiple website and desktop capture sources; making it perfect for operation centres who don't require large quantities of physical inputs.

This Lucidity video wall controller comes packaged within a rugged rack mount 2U design, incorporating a powerful low-profile quad channel output card, which can drive up to 16x Full HD displays at native resolution simultaneously, when used alongside displays which feature a 4K loop through or using UVS's external 4K to 4x HD convertors.

WBC40

The Lucidity WBC40 provides a 4 PCIe Slot chassis, powered by a powerful XeonW processor, mid-level controller for small numbers of input and outputs, with the power to run multiple software sources.

WBC70

The Lucidity WBC70 incorporates an extremely powerful Xeon-W processor and allows for up to 6x or 7x PCIe 3.0 cards (dependant on card type) giving you greater options for source output / input channels.

WBC90 / WBC110

The Lucidity WBC90 and WBC110 both utilise an advanced backplane system with a high bandwidth switch fabric bus capable of transferring information between the cards of up to 192GB/s.

Both the WBC90 and the WBC10 utilise PICMG 1.3 Single Board Computers, powered by an Intel Core-i7 and 32GB RAM. The WBC90 is capable of housing 8x PCIe 3.0 x4 cards and one PCIe 3.0 x8 slot. The WBC110 11x PCIe 3.0 x8 has a higher image bandwidth between the input and output cards. Both units can by expanded adding up to a maximum of 5x chassis or 51 PCI Express expansion slots.

Note: Specifications subject to change.

WBC200

The WBC200 is the largest video wall controller for use with our MN series of input and output cards, providing a 20x PCIe slot chassis.

This provides the capability of up to 16x 4K outputs or 64x HD outputs for large system configurations. Coupled with the choice of input cards for 4x HDMI only or the hybrid 4x HDMI plus 12x HD IP stream decoding option, the WBC200 is extremely versatile and allows for large future expansion possibilities.

THE PERFECT COMPANION...

Simple Yet Supremely Powerful

The Lucidity video wall manager control platform has been designed from the ground up, to ensure it's fully functional and simple to use.

UVS have over 70 years' combined experience in the video wall control market, which has evolved in to the Lucidity video wall manager platform. Each of the features within Lucidity have been influenced by customer feedback over the years.

The Lucidity video wall manager control platform allows for multiple source types including RSS / message box tickers, physically attached sources e.g. HDMI, IP Camera / IPTV streams, web pages and even remote desktop display & control (LVC – Lucidity View & Control).

+ 44(0) 1282 606525 contact@ultimatevs.co.uk **www.ultimatevs.co.uk** P.O. Box 482, Burnley, BB11 9BX

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WBC10 LUCIDITY

Lucidity WBC10 Video Wall Controller Specifications	
Processor	AMD Ryzen5 5600G 3.9GHz 6-Core
Chipset	B550
RAM	16GB DDR (MAX 128GB)
Storage	RAID1 SSD M.2 256GB
Ethernet	Dual 2.5GB LAN
Power Supply	650W RPSU / 100-240V 50-60Hz
OS	Windows 10 LTSC 2019
Card Capacity	Up to 4x HDMI inputs
Rack Profile	2U
Dimensions	480 x 574 x 88mm
Output Cards	
NV-OUT-DP4-4K-1	4x 4K Display Port outputs
Input Cards	
YN2HDMI (low profile)	2x HDMI @ 1920x1200 at 60Hz **Note:** only 2x low profile YN2HDMI cards can be added to the WBC10 Entry level input card, no support for audio, hdcp, osd / cropping and no IP decoding

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WBC40 LUCIDITY

Lucidity WBC40 Video Wall Controller Specifications	
Processor	XeonW-2223 3.6GHz Quad Core (8 Threads)
Chipset	C422
RAM	32GB DDR4
Storage	RAID1 SSD 240GB Hot Swappable
Ethernet	2x 10/100/1000 Gbps
Power Supply	600W RPSU / 100-240V 50-60Hz
OS	Windows 10 LTSC 2019
Card Capacity	4 slots
Rack Profile	4U
Dimensions	430 x 546 x 176mm
Output Cards *	* not all input cards are compatible with all output cards please contact UVS for your config
MN-OUT-HDMI4-4K-1 **MN-OUT-DP4-4K-1**	4x HDMI or Display Port @ 4096x2160 60Hz HDMI or Display Port to be confirmed with order
NV-OUT-DP4-4K-1	4x MDP with full size DP adaptors (HDMI / DVI available) 4x 5K 5120x2880 @ 60Hz 4x 4K 3840x2160 @ 120Hz
Input Cards *	* not all input cards are compatible with all output cards please contact UVS for your config
MN-IN-HDMI4-1	4x Mini HDMI 3840x2160@30HZ – mini HDMI to HDMI adapters provided
MN-IN-HDMI4IP12-1	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams – shared resource e.g. 4x HDMI + 12x HD IP RTSP H264 streams
MN-IN-HDMI4IP12-ENC-1	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams. With encoding. Encoding uses same resources as the decoding so if encoding 2xHD and 4x Inputs then only 10x Decodes allowed
YN4HDMI	4x HDMI @1920x1200 at 60Hz * max. 3 cards per system

Note: Specifications subject to change.

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WBC70 LUCIDITY

Lucidity WBC70 Video Wall Controller Specifications	
Processor	Xeon-W 2235 3.8GHz 6-Core
Chipset	C422
RAM	64GB ECC DDR4 (MAX 1024GB)
Storage	RAID1 SSD 240GB Hot Swappable
Ethernet	Dual 10GB LAN
Power Supply	800W RPSU / 100-240V 50-60Hz
OS	Windows 10 LTSC 2019
Card Capacity	6 or 7 depending on card types
Rack Profile	4U
Dimensions	430 x 546 x 176mm
Output cards *	
MN-OUT-HDMI4-4K-1 **MN-OUT-DP4-4K-1**	4x HDMI or Display Port @ 4096x2160 60Hz HDMI or Display Port to be confirmed with order Maximum of 4 output cards per system
NV-OUT-DP4-4K-1	4x MDP with full size DP adaptors (HDMI / DVI available) 4x 5K 5120x2880 @ 60Hz 4x 4K 3840x2160 @ 120Hz
Input cards *	* not all input cards are compatible with all output cards, please contact UVS for your config
MN-IN-HDMI4-1	4x Mini HDMI 3840x2160@30HZ – mini HDMI to HDMI adapters provided
MN-IN-HDMI4IP12-1	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams – shared resource e.g. 4x HDMI + 12x HD IP RTSP H264 streams
MN-IN-HDMI4IP12-ENC-1	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams. With encoding. Encoding uses same resources as the decoding, so if encoding 2xHD and 4x Inputs then only 10x Decodes allowed

Note: Specifications subject to change.

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WBC90 LUCIDITY

Lucidity WBC90 Video Wall Controller Specifications	
Processor	I7-7700 3.6GHz Quad Core
Chipset	Q170
RAM	32GB DDR4
Storage	RAID1 SSD 240GB Hot Swappable
Ethernet	2x 10/100/1000 Gbps
Power Supply	600W RPSU / 100-240W 50-60Hz
OS	Windows 10 LTSC 2019
Card Capacity	9 + up to four expansion racks for a total of 41x expansion slots
Rack Profile	4U
Dimensions	430 x 546 x 176mm
Output cards *	* output card types cannot be mixed in one system
DP-OUT-HDMI4-HD-1	4x HDMI 2560x1600 @ 60Hz or 2x 3840x2160 @ 60Hz or 1x 3840x2160 @ 60Hz and 3x 1920x1080 @ 60Hz
DP-OUT-HDMI4-4K-1	4x HDMI 3840x2160 @ 60Hz
Input cards *	
DP-IN-HDMI4-1	4x HDMI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
DP-IN-DVI4-1	4x DVI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
DP-IN-HDMI2-4K-1	2x HDMI @ 4096x2160p at 60Hz
DP-IN-DP2-4K-1	2x Display Port @ 4096x2160p at 60Hz
DP-IN-IP12-1	Up to 3x4096x2160p @ 30fps or 6x1920x1080p @ 60fps / 12 x 1080p @ 30 fps or 10 x 1080i @ 30fps / 50+ D1 @ 30 fps
DP-IN-IP12-H265-1	Up to 3x4096x2160p @ 30fps or 6x1920x1080p @ 60fps / 12 x 1080p @ 30 fps or 10 x 1080i @ 30fps / 50+ D1 @30 fps, H265 and H264
DP-IN-SD8-1	8x SD-BNC 720 x 576 x 16bit

Note: Specifications subject to change. Upgrades available.

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WBC110 LUCIDITY

Lucidity WBC110 Video Wall Controller Specifications	
Processor	I7-7700 3.6GHz Quad Core
Chipset	Q170
RAM	32GB DDR4
Storage	RAID1 SSD 240GB Hot Swappable
Ethernet	2x 10/100/1000 Gbps
Power Supply	800W RPSU / 100-240V 50-60Hz
OS	Windows 10 LTSC 2019
Card Capacity	11 + up to four expansion racks for a total of 51x expansion slots
Rack Profile	4U
Dimensions	430 x 546 x 176mm
Output cards *	* output card types cannot be mixed in one system
DP-OUT-HDMI4-HD-1	4x HDMI 2560x1600 @ 60Hz or 2x 3840x2160 @ 60Hz or 1x 3840x2160 @ 60Hz and 3x 1920x1080 @ 60Hz
DP-OUT-HDMI4-4K-1	4x HDMI 3840x2160 @ 60Hz
Input cards *	
DP-IN-HDMI4-1	4x HDMI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
DP-IN-DVI4-1	4x DVI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
DP-IN-HDMI2-4K-1	2x HDMI @ 4096x2160p at 60Hz
DP-IN-DP2-4K-1	2x Display Port @ 4096x2160p at 60Hz
DP-IN-IP12-1	Up to 3x4096x2160p @ 30fps or 6x1920x1080p @ 60fps / 12 x 1080p @ 30 fps or 10 x 1080i @ 30fps / 50+ D1 @ 30 fps
DP-IN-IP12-H265-1	Up to 3x4096x2160p @ 30fps or 6x1920x1080p @ 60fps / 12 x 1080p @ 30 fps or 10 x 1080i @ 30fps / 50+ D1 @30 fps, H265 and H264
DP-IN-SD8-1	8x SD-BNC 720 x 576 x 16bit

Note: Specifications subject to change. Upgrades available.

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WBC200 LUCIDITY

Lucidity WBC200 Video Wall Controller Specifications	
Processor	Dual Xeon Silver 4208 2.1GHz 8-Core
Chipset	Intel C622
RAM	96GB ECC DDR4 (12x 8GB)
Storage	RAID1 SSD 240GB Hot Swappable
Ethernet	Dual 10GB LAN + 1x IPMI
Power Supply	2000W RPSU
OS	Windows 10 LTSC 2021
Card Capacity	20x PCIe 3.0 x16
Rack Profile	4U
Dimensions	437 x 815 x 178mm
Output cards *	
MN-OUT-HDMI4-4K-1 **MN-OUT-DP4-4K-1**	4x HDMI or Display Port @ 4096x2160 60Hz HDMI or Display Port to be confirmed with order Maximum of 4 output cards per system
Input cards *	
MN-IN-HDMI4-1	4x Mini HDMI 3840x2160@30HZ – mini HDMI to HDMI adapters provided
MN-IN-HDMI4IP12-1	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams – shared resource e.g. 4x HDMI + 12x HD IP RTSP H264 streams
MN-IN-HDMI4IP12-ENC-1	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams. With encoding. Encoding uses same resources as the decoding, so if encoding 2xHD and 4x Inputs then only 10x Decodes allowed

Note: Specifications subject to change. Upgrades available.

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Developed by UVS ULTIMATE Visual Solutions

High performance processing for all of your video wall needs, complete with a unique support and care package from UVS.

UVS (Ultimate Visual Solutions) provide turnkey solutions for all types of audio visual and visual display applications. Our projects range from a single display screen in a conference room to a multi-screen video wall system within a 24/7, mission-critical operation such as a Data Centre or Special Operations Room.

To speak to our team call **+ 44 (0) 1282 606525**, email **contact@ultimatevs.co.uk** or visit our website for more information **www.ultimatevs.co.uk**.