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Visual Solutions

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# LUCIDITY VIDEO WALL CONTROLLER

**LUCIDITY**  
Developed by  **ULTIMATE**  
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## 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:



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.

### WBC10

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 converters.

### 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 WBC110 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 be expanded adding up to a maximum of 5x chassis or 51 PCI Express expansion slots.



**Note:** Specifications subject to change.

# 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).





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**WBC10 LUCIDITY**



**Lucidity WBC10 Video Wall Controller Specifications**

<b>Processor</b>	AMD Ryzen5 5600G 3.9GHz 6-Core
<b>Chipset</b>	B550
<b>RAM</b>	16GB DDR (MAX 128GB)
<b>Storage</b>	RAID1 SSD M.2 256GB
<b>Ethernet</b>	Dual 2.5GB LAN
<b>Power Supply</b>	650W RPSU / 100-240V 50-60Hz
<b>OS</b>	Windows 10 LTSC 2019
<b>Card Capacity</b>	Up to 4x HDMI inputs
<b>Rack Profile</b>	2U
<b>Dimensions</b>	480 x 574 x 88mm
<b>Output Cards</b>	
<b>DP4OUTQP1</b>	4x 4K Display Port outputs
<b>Input Cards</b>	
<b>YN2HDMI (low profile)</b>	2x HDMI @ 1920x1200 at 60Hz <b>Note:</b> 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**

<b>Processor</b>	XeonW-2223 3.6GHz Quad Core (8 Threads)
<b>Chipset</b>	C422
<b>RAM</b>	32GB DDR4
<b>Storage</b>	RAID1 SSD 240GB Hot Swappable
<b>Ethernet</b>	2x 10/100/1000 Gbps
<b>Power Supply</b>	600W RPSU / 100-240V 50-60Hz
<b>OS</b>	Windows 10 LTSC 2019
<b>Card Capacity</b>	4 slots
<b>Rack Profile</b>	4U
<b>Dimensions</b>	430 x 546 x 176mm
<b>Output Cards *</b>	* not all input cards are compatible with all output cards please contact UVS for your config
<b>MHDMI4OUT/MDP4OUT</b>	4x HDMI or Display Port @ 4096x2160 60Hz HDMI or Display Port to be confirmed with order
<b>MDP4OUTQT1</b>	4x MDP with full size DP adaptors (HDMI / DVI available) 4x 5K 5120x2880 @ 60Hz 4x 4K 3840x2160 @ 120Hz
<b>Input Cards *</b>	* not all input cards are compatible with all output cards please contact UVS for your config
<b>MN4HDMI</b>	4x Mini HDMI 3840x2160@30HZ – mini HDMI to HDMI adapters provided
<b>IN4HD16IP</b>	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams – shared resource e.g. 4x HDMI + 12x HD IP RTSP H264 streams
<b>IN4HD16IPENC (with Encoding)</b>	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
<b>YN4HDMI</b>	4x HDMI @1920x1200 at 60Hz * max. 3 cards per system

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**WBC70 LUCIDITY**



**Lucidity WBC70 Video Wall Controller Specifications**

<b>Processor</b>	Xeon-W 2235 3.8GHz 6-Core
<b>Chipset</b>	C422
<b>RAM</b>	64GB ECC DDR4 (MAX 1024GB)
<b>Storage</b>	RAID1 SSD 240GB Hot Swappable
<b>Ethernet</b>	Dual 10GB LAN
<b>Power Supply</b>	800W RPSU / 100-240V 50-60Hz
<b>OS</b>	Windows 10 LTSC 2019
<b>Card Capacity</b>	6 or 7 depending on card types
<b>Rack Profile</b>	4U
<b>Dimensions</b>	430 x 546 x 176mm
<b>Output cards *</b>	
<b>MHDMI4OUT/MDP4OUT</b>	4x HDMI or Display Port @ 4096x2160 60Hz HDMI or Display Port to be confirmed with order Maximum of 4 output cards per system
<b>MDP4OUTQT1</b>	4x MDP with full size DP adaptors (HDMI / DVI available) 4x 5K 5120x2880 @ 60Hz 4x 4K 3840x2160 @ 120Hz
<b>Input cards *</b>	* not all input cards are compatible with all output cards, please contact UVS for your config
<b>MN4HDMI</b>	4x Mini HDMI 3840x2160@30HZ – mini HDMI to HDMI adaptors provided
<b>MN2DP4K</b>	2x Display Port @ 4096x2160p at 60Hz
<b>IN4HD16IP</b>	4x Mini HDMI 3840x2160@30Hz / up to 16x HD IP streams – shared resource e.g. 4x HDMI + 12x HD IP RTSP H264 streams
<b>IN4HD16IPENC (with Encoding)</b>	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
<b>YN4HDMI</b>	4x HDMI @1920x1200 at 60Hz * max. 3 cards per system

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**WBC90 LUCIDITY**



**Lucidity WBC90 Video Wall Controller Specifications**

<b>Processor</b>	I7-7700 3.6GHz Quad Core
<b>Chipset</b>	Q170
<b>RAM</b>	32GB DDR4
<b>Storage</b>	RAID1 SSD 240GB Hot Swappable
<b>Ethernet</b>	2x 10/100/1000 Gbps
<b>Power Supply</b>	600W RPSU / 100-240W 50-60Hz
<b>OS</b>	Windows 10 LTSC 2019
<b>Card Capacity</b>	9 + up to four expansion racks for a total of 41x expansion slots
<b>Rack Profile</b>	4U
<b>Dimensions</b>	430 x 546 x 176mm
<b>Output cards *</b>	* output card types cannot be mixed in one system
<b>DP4OUT</b>	4x HDMI 2560x1600 @ 60Hz or 2x 3840x2160 @ 60Hz or 1x 3840x2160 @ 60Hz and 3x 1920x1080 @ 60Hz
<b>DP4KOUT</b>	4x HDMI 3840x2160 @ 60Hz
<b>Input cards *</b>	
<b>IN4HDMI</b>	4x HDMI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
<b>IN4DVI</b>	4x DVI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
<b>IN2HDMI4K</b>	2x HDMI @ 4096x2160p at 60Hz
<b>IN2DP4K</b>	2x Display Port @ 4096x2160p at 60Hz
<b>IN12IP</b>	Up to 3x4096x2160p @ 30fps or 6x1920x1080p @ 60fps / 12 x 1080p @ 30 fps or 10 x 1080i @ 30fps / 50+ D1 @ 30 fps
<b>IN8SD</b>	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**

<b>Processor</b>	I7-7700 3.6GHz Quad Core
<b>Chipset</b>	Q170
<b>RAM</b>	32GB DDR4
<b>Storage</b>	RAID1 SSD 240GB Hot Swappable
<b>Ethernet</b>	2x 10/100/1000 Gbps
<b>Power Supply</b>	800W RPSU / 100-240V 50-60Hz
<b>OS</b>	Windows 10 LTSC 2019
<b>Card Capacity</b>	11 + up to four expansion racks for a total of 51x expansion slots
<b>Rack Profile</b>	4U
<b>Dimensions</b>	430 x 546 x 176mm
<b>Output cards *</b>	* output card types cannot be mixed in one system
<b>DP4OUT</b>	4x HDMI 2560x1600 @ 60Hz or 2x 3840x2160 @ 60Hz or 1x 3840x2160 @ 60Hz and 3x 1920x1080 @ 60Hz
<b>DP4KOUT</b>	4x HDMI 3840x2160 @ 60Hz
<b>Input cards *</b>	
<b>IN4HDMI</b>	4x HDMI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
<b>IN4DVI</b>	4x DVI Inputs - Channels 1 & 3: 2x3840x2160p @30 fps Channels 2 & 4: 2x1920x1080p @60 fps
<b>IN2HDMI4K</b>	2x HDMI @ 4096x2160p at 60Hz
<b>IN2DP4K</b>	2x Display Port @ 4096x2160p at 60Hz
<b>IN12IP</b>	Up to 3x4096x2160p @ 30fps or 6x1920x1080p @ 60fps / 12 x 1080p @ 30 fps or 10 x 1080i @ 30fps / 50+ D1 @ 30 fps
<b>IN8SD</b>	8x SD-BNC 720 x 576 x 16bit

**Note:** Specifications subject to change. Upgrades available.





# LUCIDITY

Developed by  **ULTIMATE**  
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**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](mailto:contact@ultimatevs.co.uk) or visit our website for more information [www.ultimatevs.co.uk](http://www.ultimatevs.co.uk).