



ULTIMATE
Visual Solutions

**THE ULTIMATE VISUAL SOLUTIONS
FOR ALL REQUIREMENTS.**



LUCIDITY VIDEO WALL CONTROLLER

LUCIDITY

Controller Features

Lucidity Video Wall Controllers, from UVS, come equipped 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 our controllers are compatible with the Lucidity Wall Manager control software and can be used 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 4U controllers (WBC70 / 90 / 110) are also capable of housing up to 51x input / output cards (maximum of 48x display outputs / 12 cards).

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WBC10

The Lucidity-WBC10 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.

This entry level controller is designed for showing multiple website and desktop capture sources; making it perfect for network / security operation centres who don't require the number of inputs and outputs which its bigger siblings offer.



WBC70

The Lucidity-WBC70 builds on the platform of the WBC10 incorporating an extremely powerful Xeon-W 2133 processor; allowing for even greater number of website data and desktop capture sources.

The WBC70 also includes dual gigabit ethernet ports and allows for up to 7x PCIe 3.0 cards, giving you greater options for source output / input channels.



WBC90 / WBC110

The Lucidity-WBC90 and the Lucidity-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 both utilise PICMG 1.3 Single Board Computers, powered by an Intel Core-i7 and 16GB 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 for even higher image bandwidth between the input and output cards. If you reach the maximum card count in each chassis both units can be expanded adding an additional chassis, up to a maximum of 5x chassis or 51 PCI Express expansion slots.



Controller Specifications

	WBC10	WBC70	WBC90	WBC110
Processor	Core i5-8400 2.8GHz	Xeon-W 2133 3.6GHz 6-Core	7th Gen Core i7 3.6GHz 8MB Cache Upgradable to E3 Xeon	
Chipset	Intel Z370	Intel X299	Intel Q170	
RAM	16GB DDR4	16GB DDR4 (MAX 128GB)	16GB DDR4 (MAX 32GB)	
Storage	RAID1 M.2 256GB	RAID1 SSD 240GB*		
Ethernet	1x 10/100/1000Gbps	2x 10/100/1000 Gbps		
Power Supply	650W RPSU	800W RPSU	600W RPSU	800W RPSU
	100-240 V, 50-60Hz			
OS	Windows 10 Enterprise LTSC			
Card Capacity	1x Low Profile** X16 PCIe 3.0	7-Slots (4@ x16/ 7@ x8) PCIe 3.0***	8x X4 PCIe 3.0 1x X8 PCIe 3.0	11x X8 PCIe 3.0
Rack Profile	2U	4U		
Dimensions (W/D/H)	480 x 574 x 88mm	430 x 546 x 176mm		

* Expandable up to RAID5 5TB

** Includes 1x AMD WX4100 (4GB DDR5) Output card

*** When used with OUTDP4 cards, system requires a BIOS enabled GPU. Leaving 6 available slots.

Output Cards

	WBC-OUTDP4	WBC-MOUT6	WBC-MOUT9	WBC-OUTQP5	WBC-OUTWX51
WBC70	Yes				
WBC90/110	Yes	Not Compatible			
Graphic Memory	2GB Total	4GB GDDR5	4GB GDDR5	16GB GDD5X	8GB GDDR5
Outputs	4x Display Port	6x MiniDP Port	9x Mini HDMI	4x Display Port 1x DVI-DL	4x Display Port
Resolutions	4x 2560 x 1600 @60Hz or 2x 3840x2160 @ 30Hz	6x 3840x2160@30Hz or 3x 3840x2160@60Hz or 6x 1920x1080@60Hz	9x 1920x1200@60Hz	4x 4096x2160@120Hz or 4x 5120 x 2880 @ 60Hz	4 @ 1920x1080@60Hz or 4 @ 3840x2160@60Hz or 2 @ 5120x2880@60Hz or 1 @ 7680x4320@60Hz

Other Output cards available on request.

Input Card Matrix

	WBC-IN12IP	WBC-IN4DVI / HDMI	WBC-IN4IP16**	WBC-IN2DP4K	WBC-IN8SD	WBC-IN4SDI
IP Streams	50x D1@30fps or 12x 1920x1080@30fps		50x D1 @30fps or 16x 1920x1080@30fps 4x 3840x2160@60			
DVI-SL		2x 3840x2160@60 or 4x 1920x1080@60				
HDMI			2x 3840x2160@60 or 4x 1920x1080@60			
Display Port				2x 4096x2160		
SD Video					8x Composite BNC	
SDI Video						4x HD-SDI (up to 1080i), 3G-SDI (up to 1080p)

* Shared processing space between inputs and IP decoding e.g. 4x HD inputs and 12x HD decoding.

+ WBC-IN4IP16ENC available for the encoding of inputs / video wall output.

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

LUCIDITY ...THE PERFECT COMPANION



Simple Yet Supremely Powerful

The Lucidity Video Wall Manager Control Platform, by UVS, has been designed from the ground up to be not only fully functional but simple to use.

UVS, with its key senior staff, have over 70 years' experience in the video wall control market and this experience has evolved in to the Lucidity Video Wall Manager platform. Each of the features within Lucidity have come directly from customer feedback over many 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)



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.