Visionpro® 3D Series

3D Stereoscopic LED-lit DLP™ Video Wall Cube

VTRON's Visionpro® 3D series is designed for high resolution 3D stereoscopic applications. The series is suitable to display vivid images of virtual simulation applications such as military training, flight simulation, industrial design, urban planning, geological information and satellite remote sensing. What's more, the 3D display cubes can also display 2D 4K images for 24/7 mission critical operations.

3D stereoscopic technology

With active shutter 3D technology, third generation LED and leading screen technology and supports of 3D signal source of 1080p@120Hz, users can enjoy high quality of 3D immersive experience. Visionpro® 3D series provides high brightness, flicker-free, jitter-free and stereoscopic 3D images.

Flexible and powerful signal processing solution

Visionpro® 3D series offers fast switching between 2D and 3D. Equipped with optional boards, the series can display 2D and 3D content simultaneously. With its powerful built-in processing technology, the series supports direct 4K input, built-in signal synchronisation and unlimited loop-through of signals from cube to cube without any additional signal distribution devices.

3rd generation LEDs

With its 3rd generation LED light source, Visionpro® 3D series provides high brightness up to 1,200 ANSI lumens. The series is designed for a maintenance-free operation over many years.

- **L**ong LED lifetime of 80,000 hours[1]
- **E**nvironmentally friendly. No mercury, sodium or other harmful substances.
- **D**urable with low operating costs. VTRON's LED driver adopts intelligent current protection technology which detects the failure of certain LED and regulates the same level of current passing through other LEDs automatically.

High reliability

The Visionpro® 3D series guarantees uptime for 24/7 operation. The series is available with ultimate redundancy of all critical components including 6 x redundant LED light source, redundant power supplies and input interfaces. With dual power nets design, two independent power inputs are connected to each cube. They guarantee a hot redundant power input that will always be available to ensure fail-safe operations.

Automatic Colour and Brightness Management (Auto CBM)

With Automatic Colour and Brightness Management (Auto CBM), any changes of colour and brightness of the Visionpro® 3D series display cube can be detected automatically with its built-in colour sensors in real-time. The red, green and blue lights can be adjusted individually with its control balance system hence ensuring colour and brightness are uniformed on the entire video wall over the long period of operation.

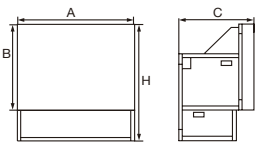
VTRON

Technical Specifications

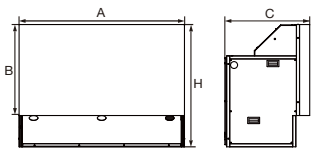
Resolution	XGA		SXGA+	Full HD
Operating parameters				
Display technology	DLP™ (0.7" DMD, 14° LVDS Darkchip)		DLP™ (0.95" DMD, 12° LVDS Darkchip)	
Native resolution	1024 × 768		1400 × 1050	1920 × 1080
Lifetime of LED [1]	80,000 hours			
Contrast of projector (typical)	Up to 2,000:1			
Light source	3 x 6 LED			
Brightness (typical)	Up to 900 ANSI lumens		Up to 1200 ANSI lumens	
Brightness uniformity (typical)	95%			
Gap [2]	0.2 - 0.5mm			
Screen	CSI			
Dust proof	IP5X			
Certifications	CCC, CE, CB, RoHS			
Signal interface [3]				
Main control board	Input			
	RGB	DVI-D (main)	DVI-D x 1	2D: Up to 4096 x 2160
		DVI-D (redundant)	DVI-D x 1	3D: Up to 1920 x 1080
	Loop output			
	DisplayPort		DisplayPort x 1	
4-channel optional board	Input			
	Video	YCrCb / YPrPb	3BNC x 1	1080p, 1080i, 720p, 576p, 576i, 480p, 480i
		S-Video	S-Video x 1	NTSC, PAL, SECAM
		CVBS	BNC x 1	NTSC, PAL, SECAM
		HDMI	HDMI x 1	1080p, 1080i, 720p, 576p, 576i, 480p, 480i
	RGB	DVI	DVI-D x 1	HF: 31K - 100KHz VF: 23 - 121Hz
		RGBHV	5BNC x 1	Pixel clock: 25M - 165MHz
	Loop output			
	DisplayPort		DisplayPort x 2	
4-channel 4K optional board	Input			
	Video	SDI (main)	BNC x 1	SD-SDI, HD-SDI, 3G-SDI
		SDI (redundant)	BNC x 1	
		HDMI	HDMI x 1	2D: Up to 4096 x 2160 3D: Up to 1920 x 1080
		DisplayPort	DisplayPort x 1	Up to 4096 x 2160
	RGB	DVI-D (main)	DVI-D x 1	2D: Up to 4096 x 2160
		DVI-D (redundant)	DVI-D x 1	3D: Up to 1920 x 1080
	Loop output			
	DisplayPort		DisplayPort x 2	
Control and connection port				
RJ45	10/100Mbps			
Remote controller	Optional			
Power supply				
Redundant power supply	1+1 hot redundant			
AC voltage	100 - 240V			
Frequency	50 / 60Hz			
Power consumption (typical)	290W (bright mode), 200W (normal mode), 140W (eco mode)			
Working conditions				
Temperature	0 - 35˚C, recommended temp.: 23˚C ± 5˚C			
Relative humidity	30 - 80%, non-condensing			

Physical Parameters

Resolution		XGA		SXGA+		Full HD	
Model		C-DX605D	C-DX675D	C-SX605D	C-SX675D	C-PH605D	C-PH705D
Screen size (diagonal)		60"	67"	60"	67"	60"	70"
Dimensions (mm)	A	1220	1370	1220	1370	1330	1552
	B	915	1028	915	1028	748	872
	C	765	815	765	815	750	795
	H	1250	1388	1250	1388	988	1172



(For XGA / SXGA+ 60", 67")



(For full HD 60", 70")

Remarks: The above specifications are subjected to change without prior notice.
1. The performance of LED lifetime varies in different actual working conditions.
2. The screen gap varies in different actual working conditions.
3. Optional board can support HDCP.

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