VSI

VISIONPRO® EF SERIES

Front Access LED-lit DLP™ Video Wall Cube

TECHNICAL SPECIFICATIONS

OPERATING PARAMETERS				
Display technology	DLP™ (0.65" DMD, 12° LVDS Darkchip)			
Native resolution	1920 x 1080			
Lifetime of LED [1]	80,000 hours			
Contrast of projector (typical)	Up to 2000:1			
Light source	Redundant LEDs			
Brightness (typical)	Up to 900 ANSI lumens			
Brightness uniformity (typical)	95%			
Gap [2]	0.6mm - 1.2mm			
Screen	CSI			
Dust proof	IP5X			
Certifications	CCC, CE, CB, RoHS			

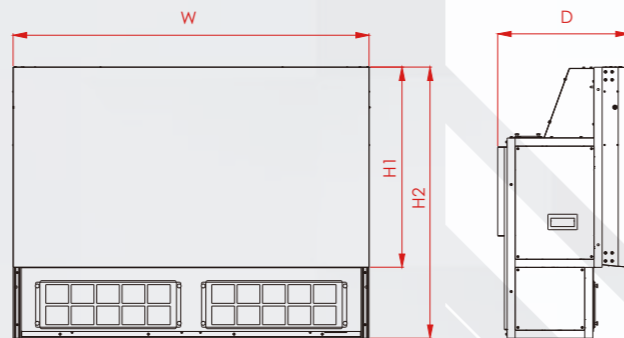| SIGNAL INTERFACE [3]				
Main control board	Input (for processor)	Analog RGB	640 x 480 - 1920 x 1080	HF: 31K-75KHz VF: 59-61Hz
		Digital RGB	640 x 480 - 1920 x 1080	Pixel clock: 25M-165MHz
4-channel optional board[4]	Input			
	Video	YCrCb / YPrPb	3BNC x 1	1080p, 1080i, 720p, 576p, 576i, 480p, 480i
		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	Up to 4096 x 2160
		DisplayPort	DisplayPort x 1	Up to 4096 x 2160
	RGB	DVI-D (main)	DVI-D x 1	Up to 4096 x 2160
		DVI-D (redundant)	DVI-D x 1	
	Loop output			
	DisplayPort		DisplayPort x 2	

CONTROL AND CONNECTION PORT	
RJ45	10/100Mbps
Remote controller	Optional
RS232	

POWER SUPPLY	
Redundant power supply	1+1 hot redundant (optional)
AC voltage	100 - 240V
Frequency	50/60Hz
Power consumption (typical)	230W (bright mode), 180W (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

MODEL		EF-PH609	EF-PH709
Screen size (diagonal)		60"	70"
Dimensions (mm)	W	1330	1552
	H1	748	872
	H2	1013	1150
	D	490	560

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 depends on configurations and operations environment.
3. Optional board can support HDCP
4. Redundant input function and built-in processor function can only be used alternatively.
5. The recommended number of rows for this series is three rows.

VTRON's Visionpro® EF series is an affordable slim profile DLP™ rear-projection cube for small to medium sized control rooms that demand a tight operation space. The series works perfectly in control rooms which require high reliability and availability for continuous 24/7 operation. With its small depth, front access maintenance and seamlessscreen gap, Visionpro® EF video wall cube is a perfect alternative to LCD panel.

VTRON
www.vtron.com
VSI
www.vsi-ltd.com

CEPREI · IAF · ISO 9001 · SGS
CCC · CE · CB · RoHS

Overseas sales operations
Hong Kong
Tel: +852-2613-9708 / +852-9331-0008
info@vtron-international.com

Experience Center :
Unit 1279 , 12th Floor, KITEC ,
1 Trademart Drive, Kowloon Bay, Hong Kong

Technical support centre
Hong Kong
Hotline: +852-2613-9708
Email: technical@vtron.com

VTRON'S VISIONPRO® EF SERIES

BENEFIT OF REDUNDANT LED LIGHT SOURCE

The Visionpro® EF series provides brightness up to 900 ANSI lumens. The series is designed for an entirely maintenance-free operation over years without replacing consumables.

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

Hong Kong MTRC Super OCC : 3X33 80" DLP LED Cube with Digicom ARK Processors

YOU CAN REFER TO CORRESPONDING

DATA-SHEET FOR DIFFERENT PRODUCTS

FOR DETAILS

VISIONPRO® EF SERIES

AUTOMATIC COLOUR AND BRIGHTNESS MANAGEMENT (AUTOCBM)
With Automatic Colour and Brightness Management (AutoCBM), any change of colour and brightness of the Visionpro® EF series slim cube can be detected by the built-in colour sensors automatically in real-time. Hence, the red, green and blue lights can be adjusted individually with its control balance system ensuring colour and brightness uniformity over the entire video wall over long period of time.

VTRON's ISV VIDEO PROCESSING TECHNOLOGY
Thanks to VTRON's Image Sharpness and Vivid (ISV) video processing technology on optional board optimizing the signal performance of composite video, S-video and component video, the Visionpro® EF series slim cube offers texture-rich and realistic video images with exquisite sharpness and vivid colour.

BUILT-IN PROCESSOR ON OPTIONAL BOARDS
VTRON's Visionpro® EF series slim cube offers 2 types of optional boards. Each optional board is provided with built-in processor to support flexible and direct inputs. The series allows built-in signal synchronization and unlimited loop-through of signals from cube to cube without any additional signal distribution devices. Images can be displayed simultaneously and picture-in-picture (PIP).

EASY MAINTENANCE
With its 7-SEG LED indicator on the main control board, system status can be indicated clearly for easy maintenance. With the hot swappable components that include fans, optional redundant power supplies and optional boards, Visionpro® EF series guarantees low down time. The video wall automatically recovers images after replacing the optional boards without further settings.

PROPRIETARY GUCS SCREEN
VTRON's Visionpro® EF Series video wall comes with a standard screen Glass Ultra high Contrast Screen (GUCS). GUCS consists of an anti-glare protective layer making the screen less vulnerable, distortion free, high gain rate, high level of total flatnessand is less reactive to the temperautre variable. It is easily maintainable and free from glistening.
 * Other screen option are available , please consultat your local representative.

THE GUARANTEED RELIABILITY
The Visionpro® EF series is available with redundancy of critical components including redundancy of LED light sources, optional redundant input ports and optional redundant power supplies to ensure high reliability operations. By equipping the display cube with 4-channel, SDI or 4K optional board, an redundant input will immediately take over to recover the image if the main input fails. By equipping redundant power supplies, two independent power inputs are connected to each cube. They guarantee a hot redundant power input will always be available to ensure fail-safe operations.

Accelerating video wall performance from design to the "moment of truth"
Integrated with VTRON's processors and software, VTRON's Visionpro® EF series DLP video wall cubes become a comprehensive video wall solution offering the beauty of our 8 key features V8. V8 gives added assurance to our customers that VTRON's video wall solutions accelerate their information sharing, decision-making and offer optimal performance of the control rooms.

Facilitating the Network Collaboration: With Optional **VLinkExpress** and **AppMaster** software, which helps to display the business applications over IP network, user can share the information on the desktop or the console operators over the network easily

Control at your finger tip, VTRON's **VIS software** provides the customer with a portable and visualized control with the hand-held device or any touch screen device. User friendly interface allows users to manage the display easily and instantly.

Dashboard content management using VTRON's **SuperMedia** platform, helps you to organize all the content from different signal source and format, and present them in a decent and precise way. In addition, SuperMedia allows to bind your database to graphic charts helping you visualize your data in real time.

Various VTRON's hardware encoders available, allows users to deploy larger scale of the whole display systems easily and flexibly. (You can refer to corresponding data-sheet for different products for details)

Digicom® Ark3000   **Digicom® HC3000**   **Digicom® AP5000**   **Digicom® AP2000**