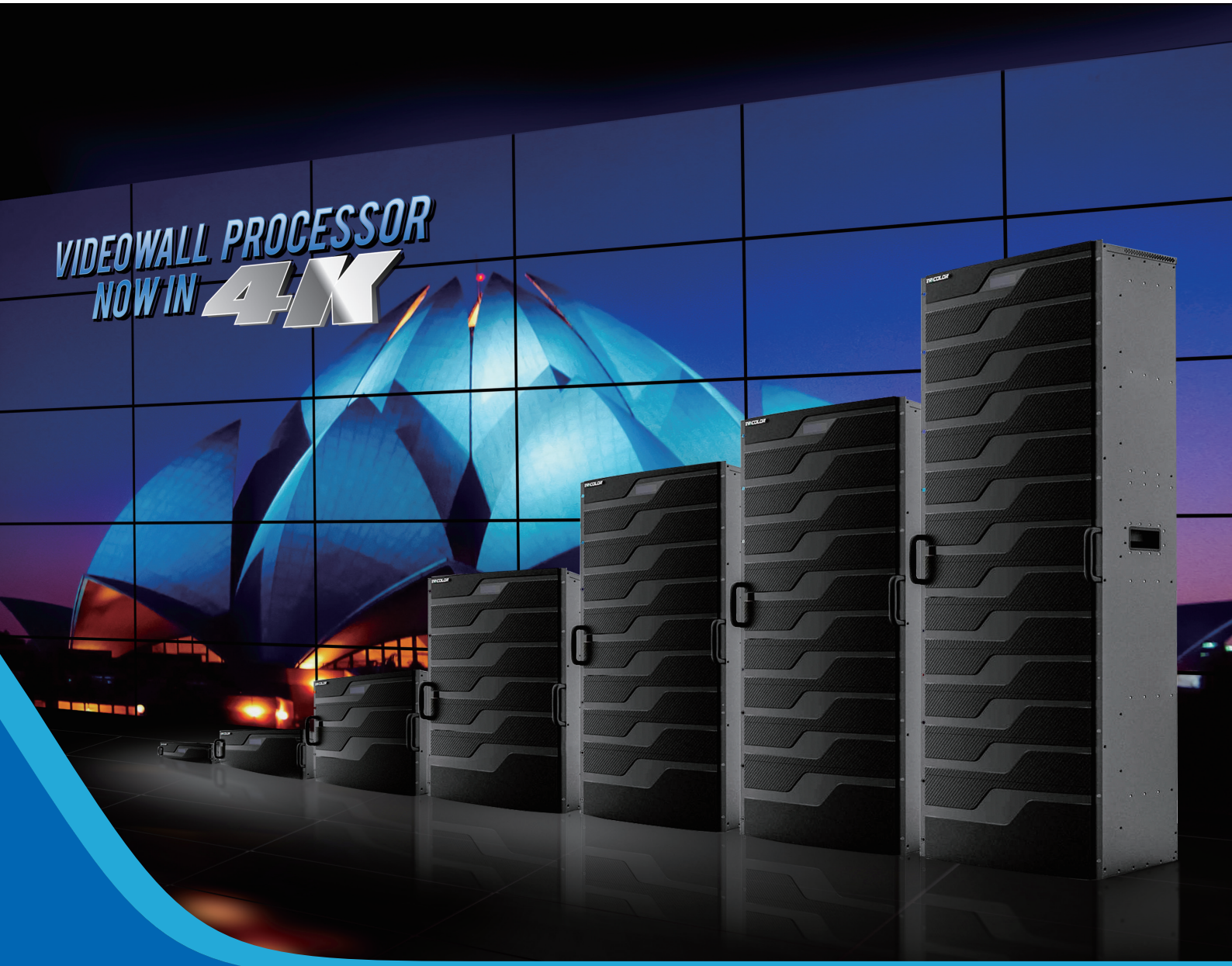
TRICOLOR



HADES™

Video Wall Processor

HADES™ VIDEO WALL PROCESSOR

HADES ™ ideo Wall Processor is a high performance video processing equipment with hardware-based architecture. It is applicable to fields such as education, research, government broadcasting, military commanding center, exhibition, TV studio, etc.

HADES ™ processor employs Crosspoint switch technology which offers high speed switching and transmitting. Comparing to "BUS" switching architecture where all signals share the same bandwidth during transmission, Crosspoint switch assigns each signal to a unique channel to avoid collision, delay, and instability, which contributes to real-time displaying for all video signals.

Adopting pure-hardware FPGA architecture with self-developed core algorithm provides HADES processor with excellent image processing performance. Having abandoned Operating System prevents HADES from crashing, blue screen, and viruses which software architecture often suffers from. Its high stability ensures 24x7 continuous operation and meets the increasingly strict demand of market.

HADES ™ processor is compatible with a wide selection of input signal formats, including CVBS, YPbPr, VGA, DVI, HDMI, SDI, Twisted-Pair signal, Optical signal, etc. The output signal of HADES supports DVI-I, Twisted-Pair signal, and Optical signal. The resolution of a single output channel can reach up to 1920x1200 @60Hz. Furthermore, customers can upload and display ultra-high resolution static background images with HADES processor. Additionally, ultra-high resolution content is supported by capturing multiple 4K signals from one single equipment to achieve perfect displaying.

FEATURES

CrossMedia Visualized Control

HADES ™ CrossMedia brings users an entirely new experience on display wall management. With touch screen control interface, video wall management has never been more straightforward. Putting videos on the screen is plainly drag-and-drop; moving and zooming videos are simply done by moving and pinching of your fingers. CrossMedia simplifies the complexity and implements true visual controlling process.

Multiple Video Wall Management

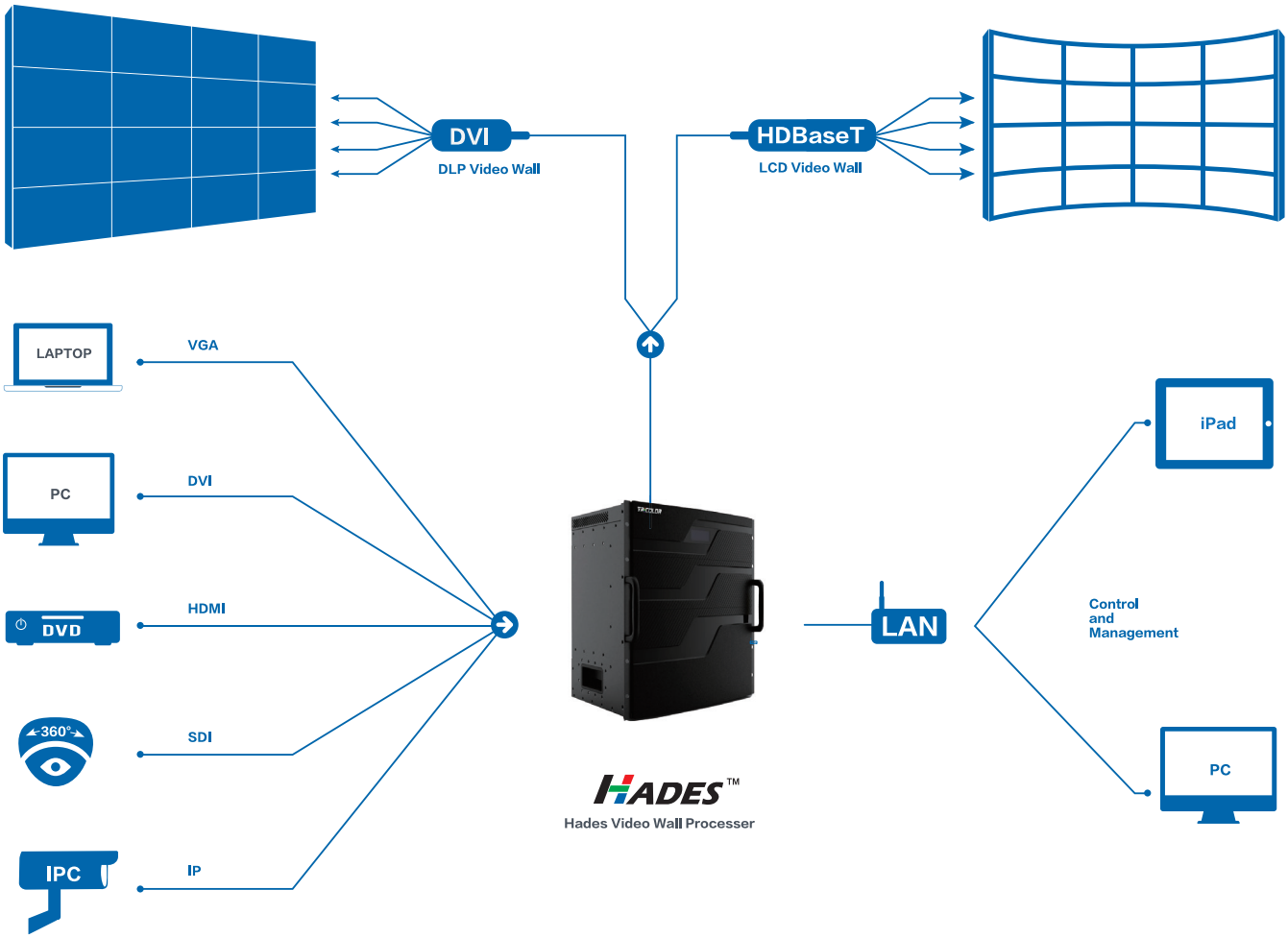
HADES ™ processor applies RRTA (Resolution Real-time Total Adaption) technology and enables the management of multiple video walls with one single processor. Users can control each video wall separately on the graphic user interface. Moreover, the output resolution of each monitor can be configured individually for different video walls.

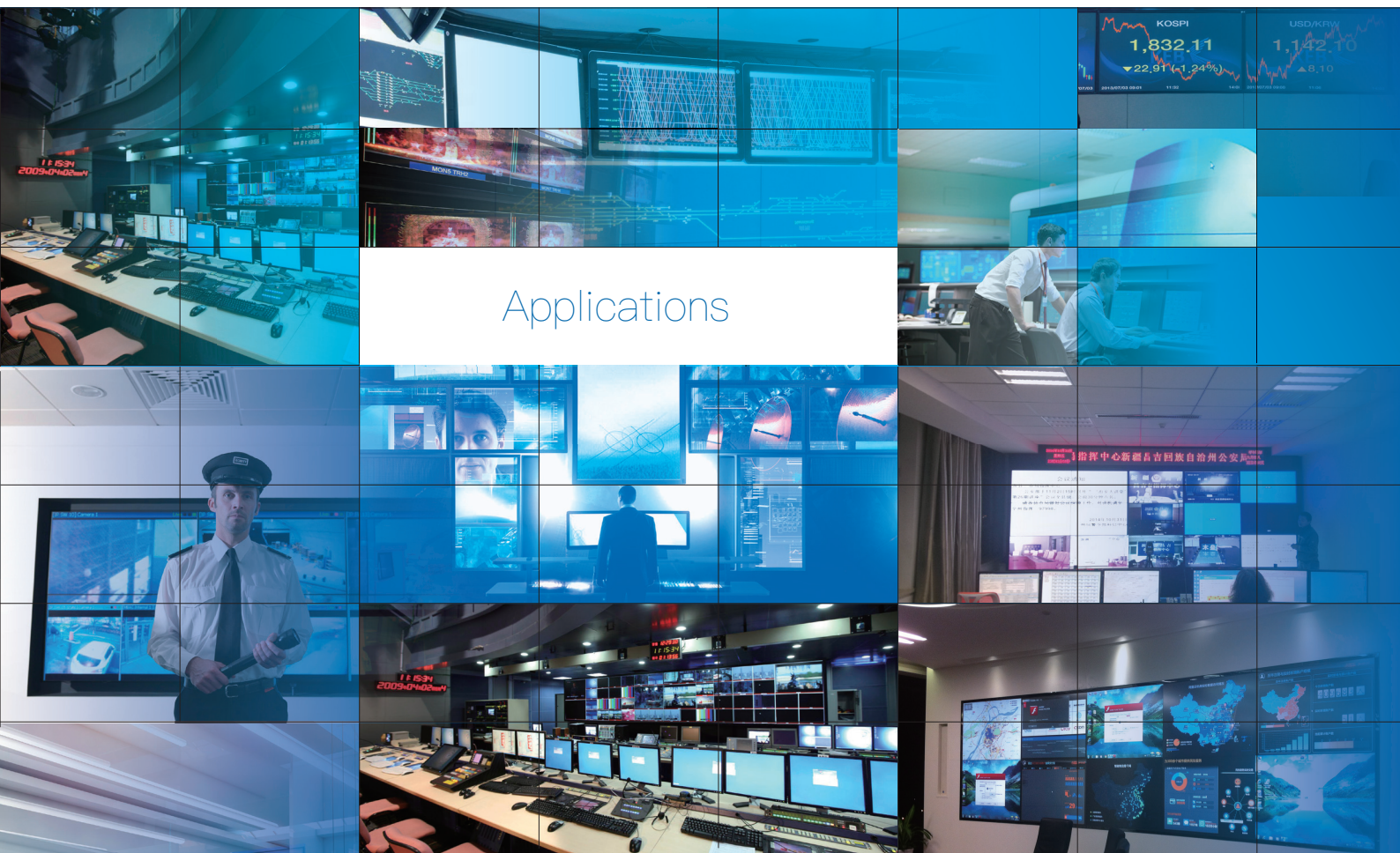
Signal Preview

All input signals can be previewed in the UI of software before being displayed on the screens. It enables the operator to observe the input status and display signals without error or mistake. Our software can also preview the input sources directly within the Control Software.

- Pure Hardware Design
- CrossPoint Bus
- Modular Design
- Hot Swappable I/O Cards
- Redundant Power Supply (8U and above)
- Image Cropping
- Background Image
- Character Superimposition
- Multiple Video-Wall Management
- Signal Preview
- Open RS232/Ethernet Control Protocol

Hades ™ SYSTEM DIAGRAM





Hades ™ SPECIFICATIONS

INPUT

VGA

Signal Format	RGBHV/YPbPr
Physical Connector	15 pin D-sub(DB15/DE-15F)/ Female
Maximum Resolution	1920×1200@60Hz
Impedance	75Ω
RGB Synchronization	Separate Sync
Reference Level	0.7 Vp-p

DVI

Signal Format	DVI-D digital T.M.D.S. signal in DVI 1.0
Physical Connector	24+5 pins/DVI-I
Maximum Resolution	1920×1200@60Hz
Impedance	75Ω
Signal Level	T.M.D.S 2.9V-3.3V
Maximum Data Rate	4.95Gbps

HDMI

Signal Format	HDMI 1.3
Physical Connector	HDMI TYPE A
Resolution	1920×1200@60Hz
Impedance	75Ω
Maximum Data Rate	4.95Gbps
EDID Management	Yes

SDI

Signal Format	SDI SMPTE 259M/292M/424M
Physical Connector	BNC/Female
Resolution	1920×1080
Impedance	75Ω
Loop Through	Yes

CVBS

Signal Format	Composite Video
Physical Connector	BNC/Female
Resolution	720×576 (PAL) 720×480 (NTSC)
Impedance	75Ω
Reference Level	1 Vp-p

DP

Signal Format	DisplayPort 1.1
Physical Connector	DisplayPort
Resolution	2560*1600@60Hz, 3840*2160@30Hz
Impedance	50Ω
Maximum Data Rate	10.8Gbps

DL-DVI

Signal Format	Dual-link DVI
Physical Connector	24+5 pins/DVI-I
Resolution	2560*1600@60Hz, 3840*2160@30Hz
Impedance	50Ω
Maximum Data Rate	9.90Gbps

HDMI

Signal Format	HDMI 1.4
Physical Connector	HDMI Type A
Resolution	2560*1600@60Hz, 3840*2160@30Hz
Impedance	YES
Maximum Data Rate	10.2Gbps

HDBaseT

Signal Format	HDBaseT
Physical Connector	RJ45/Female
Resolution	1920*1200@60Hz
Transmission Distance	100m
Front-end Device	HDBaseT Transmitter

Fiber

Signal Format	Fiber Optic
Physical Connector	LC
Resolution	1920*1080@60Hz
Transmission Distance	5KM
Front-end Device	TRIF-HFT-500-TX

IP

Format	H.264/MPEG4
Protocol	RTSP
Resolution	CIF、D1、720p、1080p
Connector	RJ45
Capacity (per card)	D1*36、720p*16、1080p@30 *8、1080p@60 *4

OUTPUT

DVI

Signal Format	DVI-I
Physical Connector	15 pin D-sub(DB15/DE-15F)/ Female
Maximum Resolution	1920×1200@60Hz
Impedance	50Ω
Signal Level	T.M.D.S 2.9V-3.3V
Maximum Data Rate	4.95Gbps

HDMI

Signal Format	HDMI 1.3
Physical Connector	HDMI TYPE A
Resolution	1920×1200@60Hz
Impedance	75Ω
Maximum Data Rate	4.95Gbps
Signal Level	T.M.D.S 2.9V-3.3V

CVBS

Signal Format	Composite Video
Physical Connector	BNC/Female
Resolution	720×576 (PAL) 720×480 (NTSC)
Impedance	75Ω
Reference Level	1 Vp-p
Compatibility	Only On Hades 380

YPbPr

Signal Format	YPbPr Component EIA-770.2-A
Physical Connector	RCA
Resolution	720×576,720×480,1280*720 ,1920x1080
Impedance	75Ω
Compatibility	Only On Hades 380

HDBaseT

Signal Format	HDBaseT
Physical Connector	RJ45/Female
Resolution	1920*1200@60Hz
Transmission Distance	100m
Back-end Device	HDBaseT Transmitter

SDI

Signal Format	SDI SMPTE 259M/292M/424M
Physical Connector	BNC/Female
Resolution	1920×1080
Impedance	75Ω
Output Mirroring	Yes

Fiber

Signal Format	Fiber Optic
Physical Connector	LC
Resolution	1920*1080@60Hz
Transmission Distance	5KM
Back-end Device	TRIF-HFT-500-TX

DL-DVI

Signal Format	Dual-link DVI
Physical Connector	24+5 pins/DVI-I
Resolution	2560*1600@60Hz, 3840*2160@30Hz
Impedance	50Ω
Maximum Data Rate	9.90Gbps

HDMI

Signal Format	HDMI 1.4
Physical Connector	HDMI Type A
Resolution	2560*1600@60Hz, 3840*2160@30Hz
Pixel Clock	330M
Maximum Data Rate	10.2Gbps

CHASSIS PARAMETERS

Models	Chassis	Dimension (mm) W×H×D	Input Slots	Output Slots
HADES 380	2U	438×89×380	2	2
	4U	438×178×380	4	4
	8U	438×356×380	8	9
	14U	438×623×380	16	18
	20U	438×890×380	32	18
	28U	438×1246×380	32	36

Models	Chassis	Dimension (mm) W×H×D	Input Slots	Output Slots
HADES 580	4U	438×178×380	6	2
	8U	438×356×380	13	4.5
	14U	438×623×380	24	9
	22U	438×979×380	32	18

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POWER YOUR PERFECTION

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