

# Digicom® HC3000

Proprietary hardware-based video wall processor



VTRON's Digicom® HC3000 is a compact video wall processor integrated with RIET technology to achieve stable and high-performance image processing of driving up to 36 display units. Digicom® HC3000 is ideal to fulfil the demanding 24/7 visualisation needs in control and command centres, data centres and operations monitoring centres.



## Embedded with RIET technology

Embedded with the Real-time Intelligent Exchange Transmission (RIET) technology, each signal is allocated to a dedicated high-speed data channel to achieve real-time transmission.



## Powerful processing performance

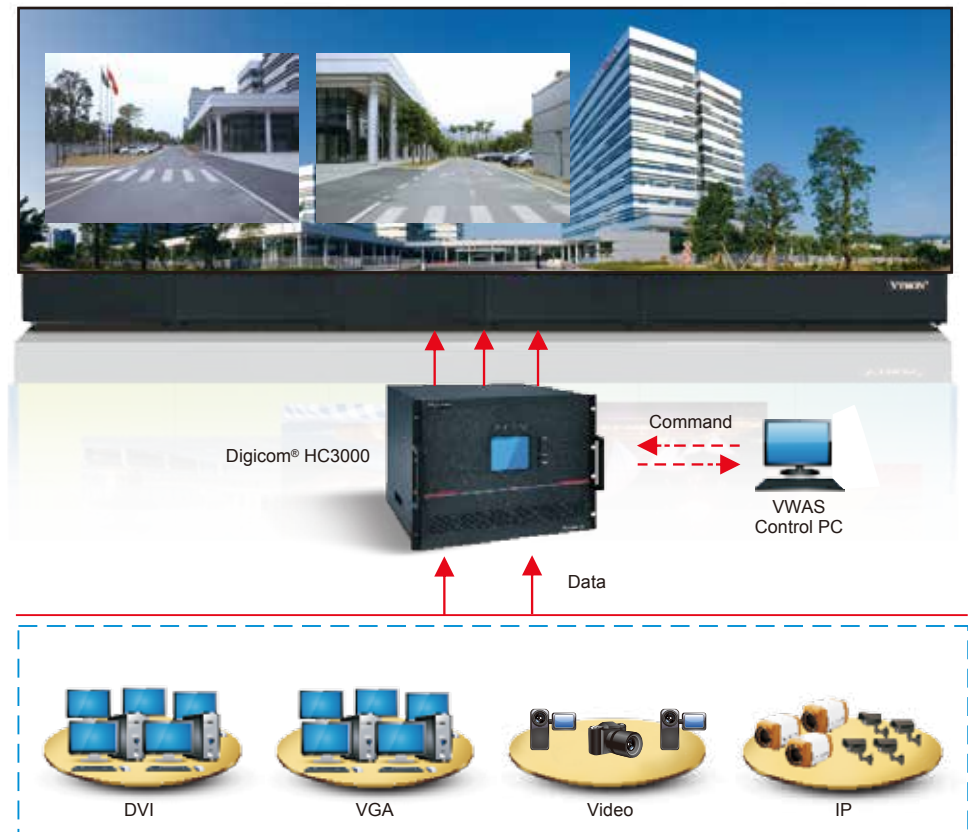
- Drives up to 36 display units.
- Handles multiple resolutions from multiple sources including DVI, VGA, video, HDMI, DP, SDI simultaneously in real-time.
- Various combinations of input sources can be resized, overlapped and placed anywhere on the video wall.





## Super high-resolution background

Digicom® HC3000 supports to run a large static background in super high-resolution across the entire video wall that the saved graphics such as map and modelled building image can be recalled from the built-in Web control interface.



## VTRON's software

VTRON Video Wall Management System (VVAS/VCMS) provides:

Window operation management

- Open/close/resize/move the signal windows
- Window properties

System information management

- Log management
- Operating information
- Warning information

Hardware device management

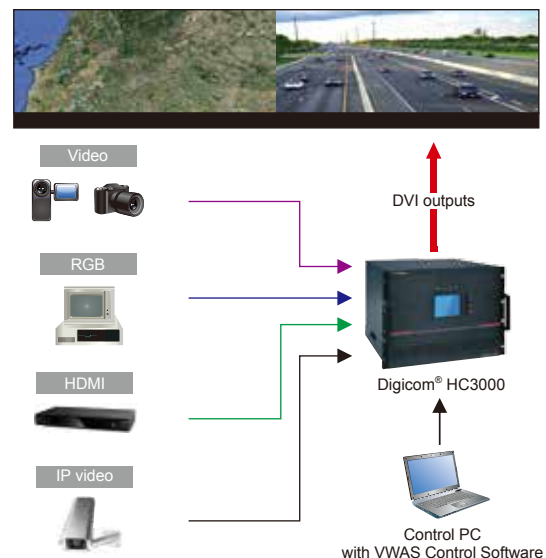
- VTRON video wall and processor management
- Matrix switch management
- Multi-function device management
- Digital signal server management
- Signal source management

Layout management

- Create/save/delete display layout
- Launch display layout
- Scheduling of layouts

Allowed third party device controls

- Launch display layout
- On/off VTRON video wall





## Flexible modular design for easy maintenance and expansion

Digicom® HC3000 is easy to maintain and expand because of its advanced modular architecture that all signal I/O boards, power supplies and fans are hot swappable. The signal I/O boards are supported with instant image recovery after the modules are hot swapped. This feature allows the new modules to be replaced without disassembling the processor case or rebooting the video wall processor. Also, system expansion can be carried out by inserting additional signal I/O boards while the processor is running.



Push/Pull



Push/Pull



## 1+1 hot redundant power supplies

The redundant power supplies of Digicom® HC3000 are designed with dual power grids so that two independent power inputs are connected to the processor. It guarantees a hot redundant power input that will always be available to ensure fail-safe operations for 24/7 operation fulfilling telecommunication power supply requirement.



## Intelligent monitoring system

Digicom® HC3000 is designed with intelligent temperature sensors which monitor air inlet/ outlet and core components in real-time. Also, you can check status information displayed on its front panel.



# Technical Specifications

Digicom® HC3000

## Inputs

Number of inputs	Max. 36 channels of 1080P HDMI / DVI / VGA / SDI / 1080P IP video; or Max. 18 channels of DP /4K HDMI; or Max. 144 channels of CVBS	
Optional input boards	DVI input board	4 channels per board Up to 1920 x 1200@60Hz Signal input connector: DVI-D Hot swappable module with instant image recovery
	VGA input board	4 channels per board Up to 1920 x 1200@60Hz Signal input connector: VGA Hot swappable module with instant image recovery
	Video input board	4 channels per board CVBS input format: PAL, NTSC Signal input connector: BNC Hot swappable module with instant image recovery
		16 channels per board CVBS input format: PAL, NTSC Signal input connector: BNC Hot swappable module with instant image recovery
	HDMI input board	4 channels per board Up to 1920 x 1080@60Hz Support HDMI 1.3, HDCP 1.4 Signal input connector: HDMI Hot swappable module with instant image recovery
	HDMI (4K) input board	2 channels per board Up to 3840 x 2160@30Hz Support HDMI 1.4, HDCP 1.4 Signal input connector: HDMI Hot swappable module with instant image recovery
	DP input board	2 channels per board Up to 3840 x 2400@30Hz Signal input connector: DP Hot swappable module with instant image recovery
	SDI input board	4 channels per board Support SD / HD / 3G-SDI Signal input connector: BNC Hot swappable module with instant image recovery
	IP input board <sup>1</sup>	Up to 4 channels of 1920 x 1080P@30Hz per board Support resolution: D1, 720P, 1080P Support standard H.264 and standard RTSP Signal input connector: RJ45 Hot swappable module with instant image recovery

## Outputs

Optional output boards	DVI output board	4 channels per board Up to 36 outputs Output resolution: Up to 1920 x 1080@60Hz per output Output connector: DVI-D Hot swappable module with instant image recovery
	Signal preview board <sup>2</sup>	Output resolution: up to 1920 x 1080@ 60Hz (DVI), 1920 x 1080@ 30Hz (IP) Support signal preview Support wall live view Output connector: DVI-D, RJ45 Hot swappable module with instant image recovery
	IP streaming board <sup>2</sup>	4 channels per board Output resolution: 1920 x 1080P@30Hz Video coding: H.264, Protocol: RTSP Output connector: RJ45 Hot swappable module with instant image recovery
	Multi-resolution DVI output board <sup>2</sup>	4 channels per board Output resolution: 1366 x 768 / 1024 x 768 / 1400 x 1050 / 1920 x 1080 Sharing video wall signals on extended displays (e.g. cubes, LCD panels or monitors). And its output resolutions are configured to match the native resolution of each display. Output connector: DVI-D Hot swappable module with instant image recovery

## General specifications

Cooling system	Redundant hot swappable fans
System control	Dual RJ45 ports, 10/100Mbps self-adaptive Support configuration of network applications, such as IP address, gateway, time server, etc.
Intelligent management	Support alarm monitoring for temperature, fan, power supply, etc. Support version review and online software upgrade
VTRON's software	Mandatory <sup>3</sup> : VWAS/VCMS; Optional: VIS
Power rating	AC 100 - 240V Max. 4A Frequency: 50/60Hz @≤ 350W
Power supply type	1+1 hot redundant power supplies, support dual power grid inputs
Dimensions (W x H x D)	439.6mm x 354.5mm x 421.8mm (excluding handle)
Operating environment	Temperature: 0 - 40°C Relative humidity: 20% - 80% (non-condensing)
Qualifications	CCC, CE, CB, RoHS

Remarks: Specifications are subject to change without prior notice.

- 1 Compatibility needs prior verification
- 2 The board occupies the output slot of the processor
- 3 Depends on the type of display unit and actual application



# VTRON

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