VANGUARD
LED DISPLAYS

Supporting all branches of the U.S. Military with **100+ CONUS and OCONUS** installations.

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TAA COMPLIANT
IN COMPLIANCE WITH THE TRADE AGREEMENTS ACT

INFINITY

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VANGUARD INFINITY
C O N T R O L L E R S

VANGUARD
LED DISPLAYS

INFINITY
Controllers Unlimited Capabilities

- *Up to 16 Input and 18 Output Cards*
- *Multi Window Processing upto **64 windows**!*
- *No need for expensive switcher/multi window processors*
- *User Friendly Browser Based GUI*
- *Windowing Control DvLED and LCDs from one Infinity controller*

Elevate your Control Room experience with the Infinity LED Display controller/processor.

VANGUARD
LED DISPLAYS

INFINITY **ULTRA**
Controllers Defying Limits

- *Up to 60 Versitile Input/Output card slots*
- *Multi Window Processing upto **160 windows**!!*
- *No need for expensive switcher/ multi window processors*
- *User Friendly Browser Based GUI*
- *Window and Program DvLED and LCDs from a single Infinity Ultra*
- *Integrated World Clocks*
- *Integrated API Recallable Classification Bars*
- *Windowing Control DvLED and LCDs from one Infinity controller*

Elevate your Control Room experience with the Infinity ULTRA LED Display controller/processor.

INFINITY

Limitless Capabilities to Create an all-encompassing Data Wall

ideal for

Large displays, complex inputs

summary

Infinity controllers utilize a card/chassis. This allows for the optimal customization to any LED display system. By combining Infinity with Vanguard displays there is no need for expensive switcher/multi-window processors which will result in significant savings.

Ample input and output options guarantee that Infinity controllers can support an ideal data wall, exceeding the requirements of the most complex direct view LED system.

Infinity controllers can also be paired with the Vanguard LED VE4K encoder to enable dynamic screen sharing from a high volume of connected machines.

Three chassis sizes allow for the perfect configuration of inputs, outputs, and optimal functionality.

inputs

HDMI   DVI   DP   SDI   IP

special configurations

TAA CLASS compliant configuration

optional

- Light sensor for automatic brightness
- Multi-function card for various sensors
- Back-up power supply
- VE4K encoder

Chassis sizes

model name	**Infinity 4 RU**		
input	up to 4 cards, 16 channels		
output	up to 4 cards, 26 million pixels		
output windows	16 x 1080p		
dimensions	WIDTH	483mm (19")	
	HEIGHT	177.8mm (7")	
	DEPTH	406.1mm (16")	
weight	12.5kg (27.5lbs)		

model name	**Infinity 7 RU**		
input	up to 8 cards, 32 channels		
output	up to 8 cards, 52 million pixels		
output windows	32 x 1080p		
dimensions	WIDTH	483mm (19")	
	HEIGHT	276.8mm (10.9")	
	DEPTH	406.1mm (16")	
weight	19.3kg (42.5lbs)		

model name	**Infinity 11 RU**		
input	up to 16 cards, 64 channels		
output	up to 18 cards, 117 million pixels		
output windows	72 x 1080p		
dimensions	WIDTH	483mm (19")	
	HEIGHT	488mm (19.2")	
	DEPTH	475.2mm (18.7")	
weight	38kg (83.8lbs)		

main board	**2** genlock I/O
	1 RS-232 serial port
	1 USB 3.0
	1 Ethernet/LAN
	1 3D port

preview and monitoring	**1** HDMI1.4 (2K)

Optional input/output cards

input cards	**1** HDMI2.0 (4K)
	1 DP1.2 (4K)
	1 12GSDI (4K)
	1 HDMI2.0 (4K), **1** DP1.2 (4K)
	4 DL-DVI (2K)
	4 HDMI1.4 (2K)
	4 VGA (2K)
	2 VGA (2K), **2** CVBS
	4 3G-SDI (2K)
	2 RJ45 (4K)

output cards	**8** 1G RJ45
	10 1G RJ45
	4 5G RJ45
	2 10G fiber
	1 HDMI2.0 (4K)
	4 DL-DVI (2K)
	4 HDMI1.4 (2K)

5

INFINITY
U L T R A

Expansive capabilities with secure
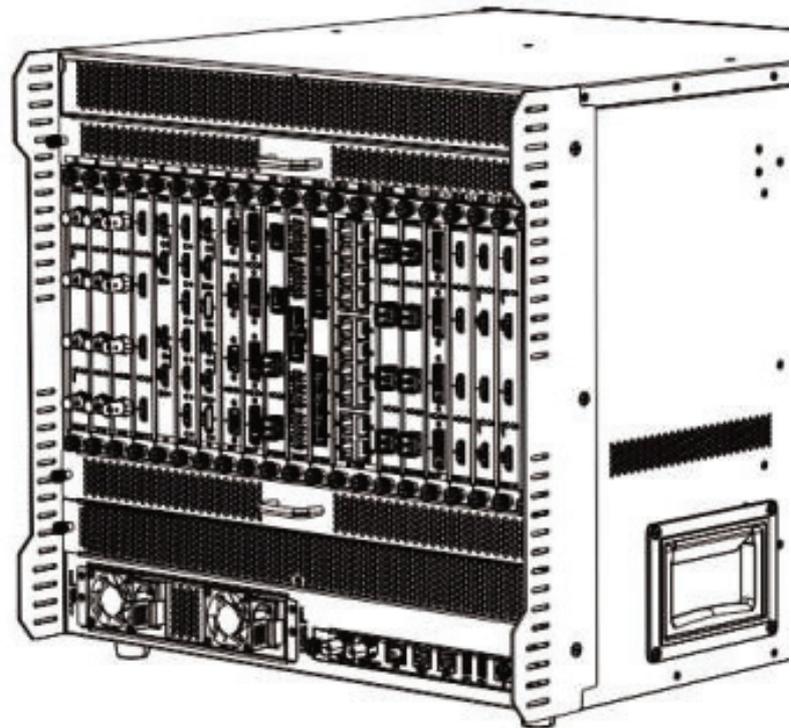**command and control** in mind

CONTROLLERS

ideal for

Command and control

summary

Vanguard LED is proud to announce our latest **next generation in video processing LED controllers**, the Infinity Ultra series. Available in three chassis sizes, 9, 15, and 20 RU, Infinity Ultra has expansive options input/output cards to support any application.

Infinity Ultra is managed entirely via a human-friendly and **intuitive web-based** interface enabling a diverse range of compatibility for the operating system of the control computer. The web interface enables easy configuration of a high volume of inputs as well as non-video source elements like background images, subtitles, and logos.

Infinity Ultra supports **dual 4K UltraHD preview and monitoring**. In combination with dynamic system health monitoring with email alert functionality, Infinity Ultra is the processing and control solution which exceeds the requirements of the most demanding applications like secure command and control centers. **Pair Infinity Ultra with the VE4K to centralize up to 160 workstations.**
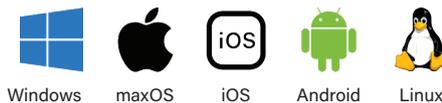
inputs

| HDMI | DP | BNC | DP | RJ45 | FIBER | DB9 |

special configurations

TAA **CLASS** compliant configuration

compatible control OS

Windows   maxOS   iOS   Android   Linux

optional

- Light sensor for automatic brightness
- Multi-function card for various sensors
- Back-up power supply
- VE4K encoder

Chassis sizes

main board	**2** genlock I/O
	2 RJ11 RS-232
	2 USB 2.0
	1 Ethernet/LAN
	1 3D port

preview and monitoring	**2** HDMI2.0 (4K)

Infinity ULTRA 9 RU

model name	
input	up to 18 cards (20 total i/o slots)
output	up to 10 cards (20 total i/o slots)
output windows	160 x 2K or 40 x 4K (per controller)
	16 x 2K or 4x x4K (per card)
dimensions	WIDTH 482.6mm (19")
	HEIGHT 399.3mm (15.7")
	DEPTH 535.2mm (21.1")
weight	27kg (59.5lbs)

Infinity ULTRA 15 RU

model name	
input	up to 30 cards (40 total i/o slots)
output	up to 20 cards (40 total i/o slots)
output windows	640 x 2K or 160 x 4K (per controller)
	16 x 2K or 4x 4K (per card)
dimensions	WIDTH 482.6mm (19")
	HEIGHT 666mm (26.2")
	DEPTH 488.2mm (19.2")
weight	48.6kg (107.14lbs)

Infinity ULTRA 20 RU

model name	
input	up to 40 cards (60 total i/o slots)
output	up to 30 cards (60 total i/o slots)
output windows	960 x 2K or 240 x 4K (per controller)
	16 x 2K or 4 x 4K (per card)
dimensions	WIDTH 482.6mm (19")
	HEIGHT 889mm (35")
	DEPTH 488.2mm (19.2")
weight	66.8kg (147.3lbs)

Optional input/output cards

input cards	**2** HDMI2.0, **2** DP1.2
	1 HDMI2.0, **1** DP1.2
	2 12G SDI
	1 12G SDI
	4 3G SDI
	4 HDMI1.3
	6 HDMI 1.3
	4 VGA
	2 VGA, **2** CVBS
	4 AUDIO
	4 DVI
	4 CVBS

output cards	**20** 1G RJ45
	8 5G RJ45
	4 10G Fiber
	2 HDMI2.0
	1 HDMI2.0
	4 HDMI1.4
	6 HDMI1.3
	4 DVI

7

about
Vanguard LED

A leader in innovative digital LED display solutions, Vanguard offers an unrivaled range of products, technologies, and support.

Vanguard is an American-owned company, headquartered in Lakeland, Florida. Our mission statement - Complete customer satisfaction, defined by our core values of **expertise, integrity**, **responsiveness**, **service**, and **value**.

Our core values take many practical forms including Industry leading new technology, expert design advice at the outset of a project, timely quotes, the quickest lead times in the industry, helpful CADs and electrical drawings, professional commissioning, proficient on-site training, and stellar after-sales services.