

# VizionPlus II™

## Display Wall Processor



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VizionPlus II™ is the newest version of the go-to display wall processor already deployed in thousands of US military installations worldwide. Ushering in a new era of performance and flexibility for collaborative visualization applications, VizionPlus II employs cutting edge, second generation PCI Express technology that offers up to an astonishing 40 Gbps of bandwidth. That's enough bandwidth to carry multiple ultra-high resolution video signals at a full 60 frames per second, drive ultra-high resolution monitors at a full 32 bits per pixel,

and support virtually any configuration requirement.

VizionPlus II is also a PC, with an Intel Core 2 Duo CPU, 8GB of RAM, and a 500GB hard drive. (256 GB solid state drive available as option.) Run mission-critical apps, access data through the network, engage the information, and collaborate on a wall-sized desktop.

### Information When and Where It's Needed

A VizionPlus II Display Wall Processor incorporates all of the visual data sources found in the operations center environment and displays them in moveable, scalable windows on a virtual display comprised of multiple output devices: LCD flat panels, plasma panels, projectors, or projection cubes.

Visual sources can include directly connected SD and

HD video, VGA, and DVI inputs, as well as data from local applications and remote network applications. Streaming video, including MPEG-2, MPEG-4, H.264, and MJPEG can be decoded using the optional Quad HD Decoder Card. The system is managed from an intuitive and consistent software interface providing complete control of the virtual display surface.

### Tested, Trusted, Reliable

VizionPlus II is designed for continuous, 24x7 operation in command and control settings, both tactical and strategic. Jupiter's high performance display wall processors are used in military operations around the world to provide the common operating picture so critical to decision making. Built for a wide range of applications, Jupiter products have been adapted for battlespace requirements on land, sea and air. To develop situational awareness, you need to be able to see everything available—video, data, images, maps, and more. That's what Jupiter delivers.

Jupiter products are used by the US Army, US Navy, US Marine Corps, US Air Force, CIA, and NSA, as well as in the Pentagon. Jupiter display wall processors are also employed by NATO, in addition to other military organizations on nearly every continent.

VizionPlus II is built in Jupiter's ISO 9001:2008 certified factory in Hayward, California.



# VizionPlus II™ Specifications



## Main Chassis

### CPU Board

#### Processor

Intel Core 2 Duo

#### System memory

8GB RAM

#### Expansion slots

10 PCI Express 2.0 x4 slots

### Disk Storage

#### Hard disk

Single removable 320 GB, 7200 RPM, SATA-300 HDD  
Optional 2nd and 3rd hard drives, RAID support

#### Optional solid state disk (SSD)

256GB solid state disk drives available as options

#### Optical Storage

DVD-RW/CD-RW

### Network Interface

#### Ethernet

Standard integrated dual 10/100/1000 Mbps RJ45 ports; Optional dual 10/100/1000 Mbps board

### Input Devices

USB 104-key keyboard, scroll mouse with 2-buttons + wheel/button

### Touch Panel Support

AMX or Crestron support built-in

## Graphics - Outputs

### Dual-Link DVI-I Output Card

#### Graphics memory

256 MB per output card

#### Output channels supported

Up to 20

#### Resolution

Digital: 640x480 to 2560x1600 pixels per output  
Analog: 640x480 to 2048x1536 pixels per output  
Custom output modes possible in both analog and digital

#### Color Depth

32 bits per pixel

#### Output signal

DVI-I connector (supports single-link and dual-link DVI, and analog VGA with optional adapter cable)

## Graphics - Inputs

### Dual DVI/RGB/HD Input (Optional)

#### Input channels supported

Up to 18

#### Format

Single-link DVI to 2048x1200  
Dual-link DVI to 2560x1600  
Progressive scan component HD (480p, 720p, 1080p)  
Analog RGB with any sync type (composite, separate, sync on green) up to 2048x1200 resolution

#### Pixel Rate

Digital: Up to 270 MHz pixel clock  
Analog: Up to 210 MHz

#### Pixel Format

32 bits per pixel

#### Rear Panel I/O

Two dual-link DVI-I connectors per board, compatible with VGA and component HD with optional adapters

#### Format

Single- or dual-link DVI, progressive scan component HD, analog VGA with any sync type (composite, separate, sync on green)

#### Windows

4 destination windows per card

#### Scaling

Freely scale and position windows

### Octal SD Video Input (Optional)

#### Input channels supported

Up to 72

#### Input format

NTSC, PAL, SECAM

#### Windows

16 destination windows per card

### Octal Video Connection Module (Optional)

#### Panel I/O

8 Composite (BNC) or S-Video (dual BNC) on 1RU  
19" rackmount panel with 2 BNC sub-panels  
Each sub-panel has 16 BNC connectors for 8 composite or 8 S-video signals

### Quad HD Decoder Input Card (Optional)

#### Integrated HD & SD video decoding

4 GigE connections, 1 per decoder  
Supports most popular IP cameras and encoders  
Supports hi res, real-time decoding of computer streams

#### Input channels supported

Up to 36 HD or SD streams

### VizionLink Input Card (Optional)

#### For PixelNet® integration

Up to 9 VizionLink cards supported  
Each VizionLink card features 4 PixelNet ports and supports up to 8 PixelNet Input Nodes

#### Input format

Support for most PixelNet nodes (TeamMate, Analog HD, 3G-SDI, and DVI with KM option)

#### Windows

4 destination windows per card

## Other

### Rackmount Chassis

#### H x W x D

7" H x 19" W x 21" D  
(17.8 cm x 48.3 cm x 53.3 cm)

#### Weight

42 lbs. (19.0 kg.)

#### Shipping weight

67 lbs. (30.4 kg.)

### Operating Range

#### Temperature

Operating: 50°F – 104°F (10°C – 40°C)  
Non-operating: -4°F – 185°F (-20°C – 85°C)

#### Humidity

Operating: 10-90% non-condensing

#### Altitude

Up to 10,000 feet (3,048.0 m)

### Electrical Requirements

#### Input voltage

100-240 VAC, auto-ranging power supply

#### Line frequency

50-60 Hz

#### Power consumption

350 Watts, maximum

### Regulatory

#### United States

UL 60950 listed, FCC Class A

#### Canada

cUL CSA C22.2, No. 80950

#### International

CE Mark, CB Certificate and Mark, IEC 60950, CCC, C-Tick, VCCI



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