PixelNet®
Video Wall Processor

The PixelNet Series is ideal for small to unlimited sized installations such as operational control rooms, military and government command centers, surveillance rooms & utility and energy centers. Mission critical operations requires the best in class hardware and software that always deliver the right solution.

- 100% redundant AV over IP system
- Integrated KVM
- Unlimited video walls and displays
- Unlimited 4K inputs
- Unlimited IP Streams
- Web & VNC support
- Visualize and control video walls that span multiple rooms
- Native support for 4K video
- Uncompressed Video Output

Native support for 4K video, fiber network. Audio for a scalable and ultra HD video distribution system.

Supports an unlimited number of inputs and displays in multiple locations.

Enable real-time HD or 4K information display to a virtually unlimited number of screens at sites spanning a building, campus, or a continent.

Architecture of a PixelNet Installation
# PixelNet Specifications

## PIXELNET NODES
- **Form Factor**: 1RU
- **Power Consumption**: 400 W

## PIXELNET DOMAIN CONTROLLER
- **Control Platform**: Canvas
- **CPU Processor**: Intel Xeon Processor E5-1620 v4
- **Drive**: 256 SSD
- **Memory**: 16 GB RAM
- **Input Devices**: 4x USB 3.0 ports, 8x USB 2.0 ports
- **Operating System**: Windows 10
- **API**: TCP (Backwards compatible with PixelNet Gen 1)
- **Video Output Interface**: VGA
- **Output Resolutions**: 1920 x 1080

## INPUT NODES
- **Audio**: Yes
- **KVM**: Up to 4 computers with K/M Link
- **FHD HDMI Node**: 8x @ 1920 x 1200 @ 60Hz
- **UHD HDMI Node**: 4x @ 3840 x 2160 @ 30Hz
- **UHD DP Node**: 4x 3840 x 2160 @ 30Hz or 2x 3840 x 2160 @ 60Hz
- **3G SDI Node**: 8x @ 1920 x 1200 @ 60Hz
- **12G SDI Node**: 4x @ 3840 x 2160 @ 60Hz

## OUTPUT NODES
- **Audio**: Yes
- **KVM**: Workstations, Web Browser and VNC
- **KVM**: Workstations, Web Browser and VNC
- **Video Output Interface**: DisplayPort
- **FHD Output Node**: 6x 1920 x 1080 @ 60Hz or 3x 1920 x 1080 @ 60Hz
- **UHD Output Node**: 2x 3840 x 2160 @ 60/30Hz or 1x 3840 x 2160 @ 60/30HZ

## STREAMCENTER NODE
- **Audio**: Yes
- **Network Interface**: 2x 1G RJ45
- **Streaming Video Codecs**: H.264, H.265, MPEG4
- **Streaming Channels**: 16x 1920 x 1080 @ 30Hz, 8x 1920 x 1080 @ 60Hz, 4x 3840 x 2160 @ 30Hz, 2x 3840 x 2160 @ 60Hz
- **Web Browser**: 16x Web Browsers (with KVM)
- **VNC**: 16x VNC (with KVM)

## SWITCHES
- **Uplink**: 24 or 48 10G SFP+ ports
- **Backbone**: 32 100G QSFP28 ports

## CERTIFICATIONS
- **Regulatory Certifications**: UL, TAA, CE, FCC

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