Aurora
IMAGE PROCESSING

Aurora Image Processing

Aurora, a dvLED processing platform engineered specifically for high-performance AV environments. Built to meet the rigorous demands of today's most complex installations, Aurora gives integrators the tools to deliver stunning visuals, seamless control, and rock-solid reliability.

- **High Fidelity Color**
- **23 bit Processing**
- **50% Less Cabling**
- **No Configuration or Calibration Files**
- **Built in Scaling**
- **TAA Compliant**

Nanolumens®

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![Nanolumens logo] **Nanolumens**®

Nanolumens' Aurora LED processor redefines video performance and simplistic operation. Aurora's core is designed to provide next level performance with true to source color accuracy and excellent gray scale. This is combined with an intuitive GUI that just flat out works and makes service a breeze with no configuration or calibration files necessary.

DPU Rear Side

PCU Control System

Security

Secure deployment via existing networks, featuring dual data redundancy paths to ensure uninterrupted video delivery. Its high data throughout (Cat6), absence of configuration of configuration files, and secure integration into mission-critical AV-over-IP infrastructures.

Why Nanolumens

At Nanolumens, we've set our sights — and our standards — high when it comes to LED and service. We leverage the best of technology to meet everyday needs and enable digital transformation. Our promise to you is an unsurpassed first and lasting experience.

High Fidelity

Content representation is one of the top priorities when we design our displays and systems. Featuring 23 bit color processing, proprietary anti-aliasing filters, and low brightness gray scale control ensures spectacular content playback no matter the environment.

Benefits

Intuitive Interface

Simple, stress free, GUI experience ensures easy setup, long term operation and troubleshooting is fast and effective.

Detailed Analytics

Aurora features detailed health and lifecycle data to give you unparalleled insight into your display health.

Service Made Simple

Say goodbye out to configuration and calibration file management. Simply replace the module and the system automtically configures and calibrates instantly.

Reduce Facility Impact

Aurora's lossless compression allows for 2x the bandwidth reducing the required data runs by 50% with no loss in video performance.

SPECIFICATIONS: AURORA IMAGE PROCESSING

DPU	**Processor Control**	1x GbE RJ-45 to PCU
	Input	1x HDMI 2.0 (type A) and 1x DP1.4 HDMI 2.0 (Type A): • Up to 4096x2160@60Hz at 4:4:4 at 8 bpc (24 bit/px) • Up to 4096x2160@60Hz at 4:2:2 at 12 bpc (36 bit/px) DisplayPort 1.4: • Up to 7680x4320@30, YCbCr 4:2:2 at 12bpc (36 bit/px) • Up to 3840x2160@60Hz RGB, or YCbCr 4:4:4 at 12 bpc (36 bit/px) • Up to 3840x2160@120Hz, YCbCr 4:2:2 at 12bpc (36 bit/px) with custom timings Input capabilities: • Progressive RGB and YCbCr 4:2:2 and 4:4:4 • Supports input bit depth of up to 12 bpc • Refresh frequencies: 23.98 Hz, 24 Hz, 25 Hz, 29.97 Hz, 30 Hz, 47.95 Hz, 48 Hz, 50 Hz, 59.94 Hz, 60 Hz, 100 Hz, 119.88 Hz, 120 Hz, 144 Hz, 240 Hz • HDCP 1.4, HDCP 2.2, HDCP 2.3"
	Outputs	8x SFP
	Operational Environment	0-40° Celsius (32-104° F) 10-85% @ 40° (104° F) non-condensing humidity
	Power Supply	120-240VA, 1.5A-0.8A
	Power Consumption	40W
	Dimensions	177mm x 222mm x 44mm 7" x 8.75" x 1.7" ½ Rack
PCU	**Connectivity**	2x LAN: (1) Management Access (1) DPU Network 2x USB 3.0 2x USB 2.0"
	Power	DC: 19V, 3.42
	Consumption (Max)	65W
	Heat	221 BTU/h
	Dimensions	177mm x 222mm x 44mm 7" x 8.75" x 1.7" ½ Rack