

Catalyst 4K

4K Display Wall Processor with Canvas 5.4



Create the world's highest resolution video wall with 4K resolution on every display



Leading Performance and Power

The Catalyst 4K system, a Jupiter by InFocus product, is a highly evolved display wall processor, delivering razor-sharp 4K resolution to every display in the video wall for stunning clarity. It's built on an Intel E5 14-Core Xeon CPU-based platform with a PCI Express 3.0 chassis and 6 powerful, high speed slots, providing faster graphics, real time frame rates, and better overall system performance than anything in its class. Featuring bandwidth that reaches 336 Gbps, Catalyst 4K delivers high resolution and high frame rate performance at 4K resolution.

Drag and drop video and data windows anywhere on the display wall, juxtapose sources in order to get a full 360-degree view of operations, save and recall layouts appropriate for specific situations, users, or time of day. Catalyst 4K ships with Canvas 5.4, the latest version of our award-winning collaborative visualization software.

4K Input & Output Support

Capable of decoding up to 20 non-HDCP 4K signals, Catalyst 4K supports input signals with a 4K DVI input card that leverages a DVI-D dual-link connector. Catalyst 4K supports up to 12 non-HDCP 4K outputs on a single CPU Chassis. Each 4K display has a resolution of 3840 x 2160 pixels per output through a mini DisplayPort interface. Add up to four Expansion Chassis, each with 7 slots, to add even more inputs.

Built for Canvas

The Catalyst 4K display wall processor ships with Canvas 5.4, the latest version of the award-winning collaborative visualization suite. Canvas provides access to all of the visual business intelligence made available in the user's network—including live streams from network cameras and mobile devices, application screens from PCs, and real time data feeds. Remote colleagues can see, share, and collaborate using the same live information in a highly secure environment no matter what device they have in front of them. Additional users are enabled simply by deploying additional Canvas clients on PCs, smartphones, tablets, or by adding Canvas Touch or CRS-4K systems to conference rooms.

With Canvas, users can annotate directly on live video streams, chat by text or voice, and collaborate on documents in real time. Canvas 5.4 includes software decoding of IP video streams (including 4K), as well as support for user authentication in either Active Directory or Workgroup environments.

Native 4K Decoding

Catalyst 4K offers CPU-based decoding on both H.264 and H.265 HD and 4K sources. Catalyst 4K supports decoding up to:

- 12 HD streams or 3 4K streams from H.264 sources
- 8 HD streams with low bitrate from H.265 sources
- 8-bit 4K streams from H.265 sources

Catalyst 4K in Action

The Catalyst 4K processor is the ideal solution for projects of any size. Each 4RU rack-mountable CPU Chassis has 6 PCI Express 3.0 slots while each of up to 4 expansion chassis has 7 PCI Express 2.0 slots, enabling very large configurations. Catalyst 4K supports up to 12 4K displays or 32 HD displays, which can showcase up to 56 HD sources. With optional Quad HD Decoder Cards, Catalyst 4K can support up to 132 streaming HD inputs in one CPU Chassis plus four Expansion Chassis.



The Catalyst 4K processor is also valuable when users want to present content to an in-room audience outside of a Canvas session. With optional Dual-Link DVI Input Cards, up to 56 inputs without HDCP are supported for display on the local display wall only. Inputs via the DVI connection are not shareable in Canvas.

Specifications

Product	Catalyst 4K
System Architecture Chassis	PCI Express 3.0 Chassis with 6 high speed slots for input, output cards and 7th slot for auxiliary audio and Ethernet cards
CPU Board Processor	Intel E5 Six Core Xeon CPU or 14 core CPU
CPU Board System Memory	64GB RAM per CPU standard, up to 128GB RAM optional
Drives	512GB solid state drives Optional 2nd and 3rd drives, Optional RAID1 array with hot spare
Optical Storage	DVD-RW/CD-RW
Network Interface: Ethernet	Standard dual 100/1000 Mbps RJ45 ports
Input Devices (USB)	104-key keyboard and mouse
Expansion Chassis (Optional)	Catalyst 4K Expansion Chassis: PCI Express 2.0 Chassis with 7 slots for input or output cards
Quad HD Decoder Input Card (Optional)	Quad HD Decoder Input Card (Optional), Up to 112 inputs in 1 CPU Chassis + 4 Expansion Chassis Supports real-time decoding of HD or SD streams, Supports most popular IP cameras and encoders
Dual-Link DVI Input Card without HDCP Support for Local Display Only (Optional)	Inputs: Up to 56 inputs in 1 CPU Chassis + 4 Expansion Chassis Format: Dual-Link DVI-D up to 2560x1600, Single-Link DVI-D up to 2048x1200 Pixel Rate: Digital: Up to 270 MHz Pixel Format: 32 bits per pixel Windows: 4 destination windows per card
Catalyst 4K Output Graphics Card	Outputs: Up to 32 non-HDCP outputs with Canvas collaborative visualization software in 1 CPU Chassis + 4 Expansion Chassis Resolution: Digital: Up to 3840 x 2160 x 60 FPS per output Color Depth: 32 bits per pixel Output Signal: mini DisplayPort
Catalyst 4K Input Capture Card	Inputs : Up to 20 non-HDCP inputs with Canvas collaborative visualization software in 1 CPU Chassis + 4 Expansion Chassis Resolution: Digital: 3840 x 2160 x 30 FPS per input Color Depth: RGB 32 or YUV 16 bits per pixel Input Signal: DVI-D dual-link connector
Dimensions	7.00" H x 17.8" W x 25.5" D (17.8 cm x 45.2 cm x 64.8 cm)
Weight	40 lbs. (18.2 kg.)
Shipping Weight	50 lbs. (22.7 kg.)
Operating Range - Temperature	32°F - 104°F (0°C - 40°C), Non-operating: 14°F - 150°F (-10°C - 66°C)
Humidity	10-90% non-condensing
Altitude	Up to 10,000 feet (3,048.0 m)
Electrical - Redundant Power Supplies	High efficiency (94%) with PMBus and I2C
Input Voltage	100-240 VAC, auto-ranging power supply
Line Frequency	50-60 Hz
Power Consumption	500 Watts nominal per CPU Chassis, 450 Watts per Expansion Chassis
Regulatory - United States	UL 60950 listed, FCC Class A
Canada	cUL CSA C22.2, No. 60950
International	CE Mark, CB Certificate, IEC 60950, CCC, Taiwan(BSMI), Japan(VCCI), Russia (EAC), Belarus (EAC), Kazakhstan (EAC), Australia (RCM), New Zealand (RCM)