

- Single Link DVI I/O: 4x4 to 36x36
- Dual Link DVI I/O: 4x4 to 20x20
- DVI and Fiber I/O
- Scaling Output Capable
- Video Wall/Multi-View Modes
- Simultaneous Switching
- Simultaneous Dissolves
- HDCP Compliant
- Chromakey
- Field-upgradeable
- Advanced EDID Management
- Input Cable Equalization
- Signal Output Reclocking
- RS-232, Ethernet Control



Rev 2.01

IMAGE EVOLUTION

Black Diamond Video's CXPS is the first all digital DVI matrix switcher to offer scaling, seamless DVI and Fiber switching, multi-view windowing, and video wall processing.

Image Scaling

The CXPS video scaling engine supports single link DVI sources up to 1920x1200. The image processor provides seamless switching, smooth zoom and pan capability, and up/down conversion.

Video Wall Controller

Any input can seamlessly span across all 36 outputs to create a video wall. Outputs can be grouped for multiple wall geometries.

Window Processing

The CXPS video processor supports up to 4 windows on a single output. Windows can be individually prioritized, sized, and positioned in real time.

Special Effects

The CXPS has nine quad layers of single link DVI special effects processing. Effects include chromakey, dissolves, and more.

Digital Architecture

The CXPS can be combined with Black Diamond Video's complete line of DVI and fiber technology to form an all digital system for mission critical video routing and display applications.



Markets

Command and Control
Audio Visual
Security
Large Venue

Simulation and Training
Education
Medical Imaging
Military

Specifications - DVI I/O

CXPS-36x36-SL/DL Frame	
Single/Dual Link Configuration	36x36 Single Link DVI, 20x20 Dual Link DVI, Mixed 20x20 Dual Link + 16x16 Single Link
Bandwidth	12 Gbps
DVI I/O Configuration	4x4 to 36x36
EDID Management	Pass Through, Mirror, Custom Entry
Control	RS232, IP, Windows GUI
Rack Height	Compact 6RU
Dimensions	11.5" Length x 19" Width x 10.5" Height
Power	1000W Full Load, 90-246 VAC, 127-370 VDC, 47-63 Hz
Weight	38 lbs.
RoHS Compliant	Yes

CXPS-QDLO-HDCP Output Card	
Output Mode	Quad Output Single/Dual Link DVI
Pixel Clock Rate	25-330 MHz
Outputs	EDID I2C Acceleration
Output Timing Diagnostics	Yes
True Pixel Regeneration	Yes
Clock Conditioning	Yes
Power	31.5 Watts
HDCP Compliant	Yes
RoHS Compliant	Yes

CXPS-QDLI-HDCP Input Card	
Input Mode	Quad Input Single/Dual Link DVI
Pixel Clock Rate	25-330 MHz
Inputs	Input Auto EQ , EDID I2C Acceleration
Input Timing Diagnostics	Yes
Power	16.4 Watts
HDCP Compliant	Yes
RoHS Compliant	Yes

CXPS-QSLSC-HDCP Output Scaler Card	
Output Mode	Quad Output Single Link DVI
Pixel Clock Rate	25-165 MHz
Signal Processing	Pass Through or Active Signal Processing
Frame Latency	<1.5 Frames
Scaler Modes	Fit, Fill, Center, Stretch, Zoom
Zoom Factor	Up to 600%
Special Effects	Programmable Dissolve, Force, Chromakey, etc.
Windowing	4 Windows per Card
Wall Processing	Yes
True Pixel Regeneration	Yes
Clock Conditioning	Yes
Outputs	EDID I2C Acceleration
Output Timing Diagnostics	Yes
Power	38 Watts
HDCP Compliant	Yes
RoHS Compliant	Yes

Specifications - SC Fiber I/O

CXPS-QDLI-F Input Card

Input Mode	Quad Input Dual Link DVI
Fiber Connector	SC
Fiber Cable Type	Multimode Single Strand 50/125 or 62.5/125
Pixel Clock Rate	25-165 Mhz
Input Timing Diagnostics	Yes
Power	16.4 Watts
HDCP Compliant	Yes
RoHS Compliant	Yes

CXPS-QDLO-F Output Card

Output Mode	Quad Output Dual Link DVI
Fiber Connector	SC
Fiber Cable Type	Multimode Single Strand 50/125 or 62.5/125
Pixel Clock Rate	25-165 Mhz
Outputs	EDID I2C Acceleration
True Pixel Regeneration	Yes
Clock Conditioning	Yes
Output Timing Diagnostics	Yes
Power	31.5 Watts
HDCP Compliant	Yes
RoHS Compliant	Yes

CXPS-QSLSC-F Output Scaler Card

Output Mode	Quad Output Single Link DVI
Fiber Connector	SC
Fiber Cable Type	Multimode Single Strand 50/125 or 62.5/125
Pixel Clock Rate	25-165 Mhz
Signal Processing	Pass Through or Active Signal Processing
Frame Latency	<1.5 Frames
Scaler Modes	Fit, Fill, Center, Stretch, Zoom
Zoom Factor	Up to 600%
Special Effects	Programmable Dissolve, Force, Chroma key, etc.
Windowing	4 Windows per Card
Wall Processing	Yes
True Pixel Regeneration	Yes
Clock Conditioning	Yes
Outputs	EDID I2C Acceleration
Output Timing Diagnostics	Yes
Power	38 Watts
HDCP Compliant	Yes
RoHS Compliant	Yes

Black Diamond Video

Corporate Headquarters
503 Canal Boulevard
Point Richmond, CA 94804
877-549-6600
www.blackdiamondvideo.com