

Modular Video Wall Controller
3D/4K Pixel-to-Pixel Large Scale Solution



VD SERIES

Modular Video Wall Controller
for Large Scale Solution

SPROLINK[®]

www.sprolink.com



VD Series Back Panel Configure (2U, 3U, 8U)

VD series UHD multi-screen splicing processor adopts pure hardware FPGA architecture. Support 4K/8K UHD signal processing and real-time lossless processing. With full synchronization processing architecture, SPROLINK ensures no frame loss during signal processing and keep all outputs in strict synchronization.

System stability is always our mission. VD Series are designed to overcome the shortcomings of similar products based on industrial computer. Average failure time MTBF>30,000 hours, support 365×24 hours of continuous operation, can adapt to the increasingly strict requirements of system performance in control room, dispatch center, monitoring center and other application.

Input Module

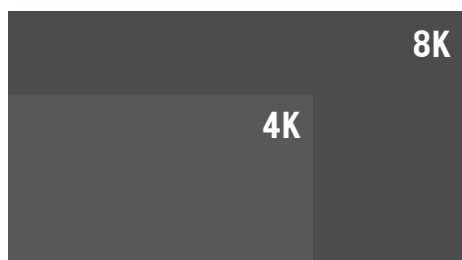
Flexible Configuration with Any Input Module Combination.

With a wide range of options available including DVI-M, HDMI, Display port, VGA, DVI, Dual Link DVI, SDI, CVBS, HDBaseT, YPbPr/YCbCr, IP, Fiber, suitable for more application requirements.

- **DVI-M Input Module compatible with HDMI/DVI/VGA/YPbPr/Cvbs (With adapter)**
- **4K@60fps Module support 1 channel 3840x2160@60fps(downward compatible) in both HDMI 2.0 and DP 1.2**
- **Support 3840x2160@30fps in 2 channels with HDMI 1.4, Dual Link DVI, DP1.1 or HDBaseT**

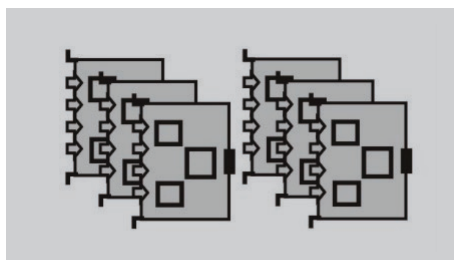
8Kx4K UHD Resolution

Support 4K input in full frame rate by single port. Support 8Kx4K resolution with multiple inputs in synchronization.



Expandable I/O Slot

To meet varied Projects, both input & output Module are compatible with flexible I/O Slot, which offering more possibilities.



EDID Management

Support EDID management, customize format of laptop, realize pixel-pixel effects. Each compatible input can be individually configured for EDID.



OSD

Configure On screen display of text from the software with different position and style. Ideal for lyrics or speeches.



Output Module

- Support customized output resolution within 2048x1200@60Hz.
- Support 1024x768-1280x800@120Hz for 3D project
- Support 1920x1080@120Hz and UHD resolution
- Support creative mapping with any degree rotation

System Control

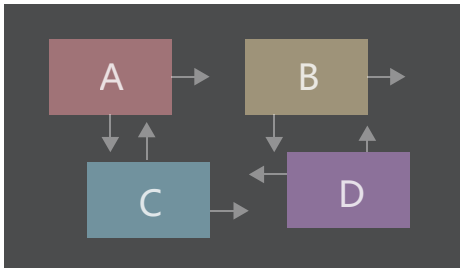
- Support LAN or RS232 remote control
- Support external RS232 output for matrix or projector control
- Support web browser control on all universal platform, extending the use of VD series

Advanced Input & Output Preview

- Support H.264 streaming to provide live video for up to 64 channels preview.
- Support Inputs multi-view by a single HDMI port.
- Support Outputs preview by a single DVI port.

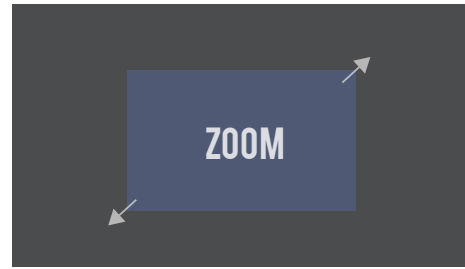
Powerful Video Layer Capacity

Arrange outputs on a virtual canvas to create large scale display in strict synchronization. Support up to 8 layers in single output without any limitation in position and size.



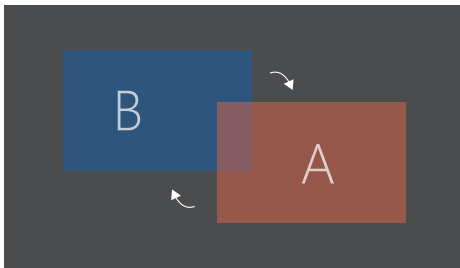
Position/Scale/Crop/Zoom

Each layer can be positioned and scaled pixel-by-pixel within the mapping resolution. Select X and Y offsets along with width and height to select any part image for output. Help to remove the unexpected image for better display.



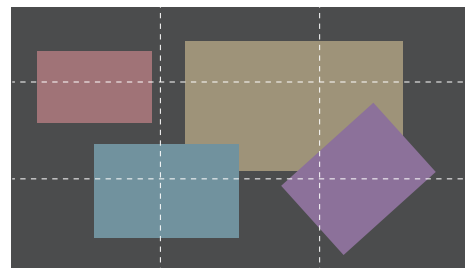
Seamless Switching

Outputs may be arranged in one or more video space across multiple display. Support seamless switching between different presets.



Mixed Display Control

Support customized output resolution on different board. Support independent control for different display. Catering for a diverse range of displays of any type.



Input Module

4 Channels DVI-M Input



- Support 2K input ,compatible with HDMI/DVI/VGA/YPbPr/Cvbs (With adapter)
- Support max. 1920x1200@60fps
- Support customized input resolution in EDID management
- Support Input Crop and OSD
- Support auto adjust for analog signal



4 Channels DVI



- Support max. 1920x1200@60fps
- Support customized input resolution in EDID management
- Support Input Crop and OSD
- Support auto adjust for analog signal



4 Channels HDMI Input



- Support HDMI 1.3 / DVI 1.0 input, HDCP compatible
- VESA Standard. Support max.1920x1200@60fps
- Support customized input resolution in EDID management
- Support Input Crop and OSD
- SMPTE Standard. Support 480i | 576i | 720P | 1080i | 1080P



Input Module

2 Channels HDMI 1.4



- Support HDMI 1.4b / HDMI 1.3 / DVI 1.0, HDCP compatible
- Support 3840x2160@30fps in max
- Support Input Hot Backup



4K HDMI 1.4B / DVI

3840*216-@30HZ

EDID

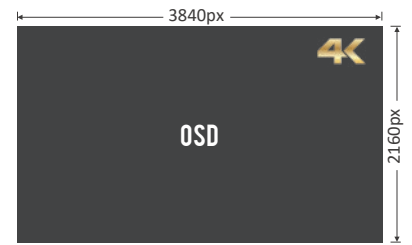
OSD

HDCP



VD Series (2x4K HDMI)

Output



LED Display

Duallink DVI / DisplayPort



- Support Duallink DVI(24+1) and DP 1.1a
- Support max. 3840x2160@30fps or 3840x1200@60fps
- Support Input Crop and OSD



Input source

DVI / DISPLAYPORT

3840*1200@60HZ

EDID

OSD

HDCP



VD Series (Duallink DVI/Displayport)

Output



LED Display

DisplayPort 1.2 / HDMI 2.0



- Support DisplayPort 1.2 / HDMI 2.0, HDCP 2.2 compatible
- Support 3840x2160@60fps in max



Input source

DISPLAYPORT 1.2

HDMI 2.0 / DVI

3840*2400@60HZ

EDID

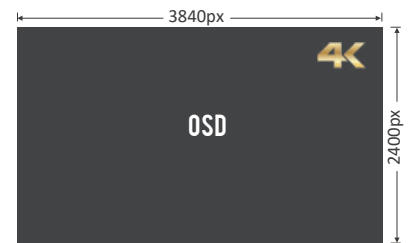
OSD

HDCP



VD Series (Displayport 1.2/HDMI 2.0)

Output



LED Display

Input Module

4 Channels SDI



- SD-SDI | HD-SDI | 3G-SDI Standard.
- Support deinterlacing
- Support Long-line automatic equalization(100m)
- Support Input Crop and OSD



8 Channels CVBS



- SMPTE Standard. Support 480i | 576i
- Support Input Crop and OSD



4 Channels HDBaseT



- Support HDBaseT signal within 2K resolution
- Support 1920x1200@60fps in max
- Support Input Crop and OSD



Input Module

2 Channels HDBaseT 4K



- Support HDBaseT and HDMI 1.4
- Support 3840x2160@30fps in max
- Support 100m transfer via Cat5e or Cat6
- Support Input Crop and OSD



2 Channels DP1.1 4K Input



- Support DP1.1 input , HDCP compatible
- Support 3840x2160@30fps in max
- Support Input Crop and OSD
- Support EDID, customize input resolution
- Support OSD



2 Channels IP Streaming



- Support webcams / Ethernet streaming within 2k resolution
- Support H.264 & H.265 streaming from IP camera or other IP stream
- Support max. 16x1080P60Hz decoding, 64x720P30Hz decoding



Output Module

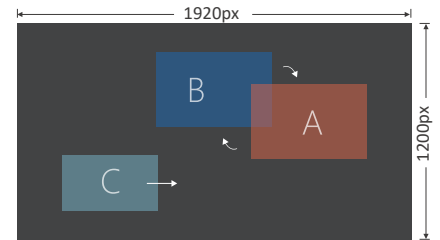
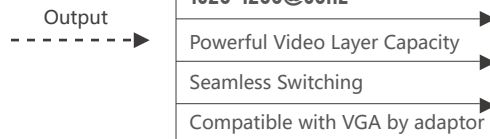
4 Channels DVI-I



- Output format support SMPTE 720P|1080P
- Support max.1920x1200@60fps
- Support customized output resolution (Bandwidth optimization)
- Horizontal resolution maximum 3840 pixels
- Vertical resolution maximum 1920 pixels
- Support 8 layers configuration
- Compatible with VGA adaptor for analog signal



VD Series (4xDVI-I)



LED Display

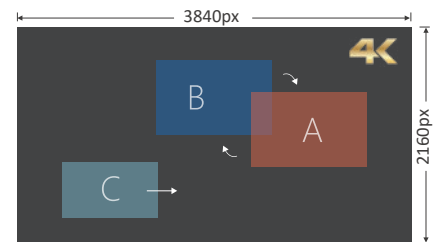
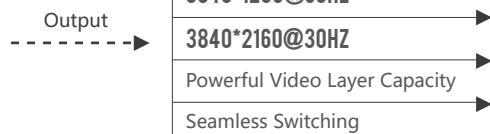
2 Channels Dual Link DVI



- Support Dual Link DVI
- Support 3840x2160@30fps or 3840x1200@60fps in max



VD Series (2xDualink DVI)



LED Display

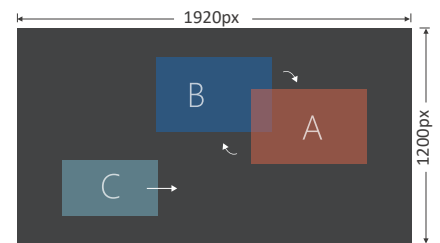
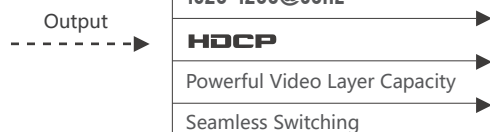
4 Channels HDMI



- Support HDMI1.3 / DVI 1.0
- Support customized output resolution (Bandwidth optimization)
- Horizontal resolution maximum 3840 pixels
- Vertical resolution maximum 1920 pixels
- Support 8 layers configuration



VD Series (4xHDMI)



LED Display

Output Module

2 Channels HDMI 1.4



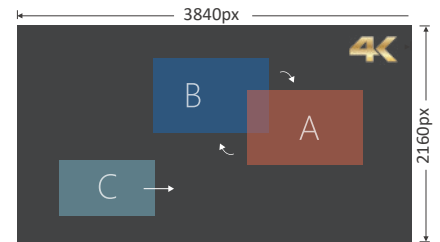
- Support HDMI 4K 1.4b / HDMI 1.3 / DVI 1.0
- Support 3840x2160@30fps in max



VD Series (2xHDMI 1.4)

Output

- 3840*1200@60HZ
- 3840*2160@30HZ
- HDCP**
- Powerful Video Layer Capacity
- Seamless Switching



LED Display

4 Channels HDBaseT



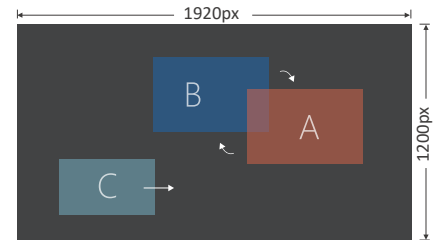
- Support HDBaseT signal within 2K resolution
- Support 1920x1200@60fps in max



VD Series (4xHDBaseT)

Output

- 1920*1200@60HZ
- HDCP**
- Powerful Video Layer Capacity
- Seamless Switching



LED Display

2 Channels 90° Rotation DVI



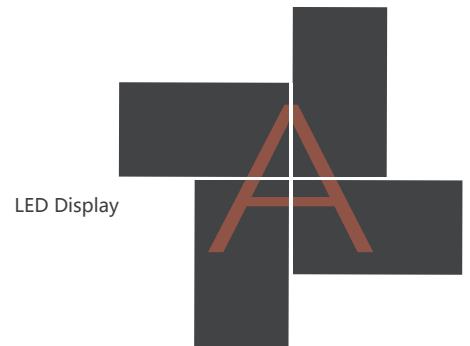
- Support max. 1920x1200@60fps
- Support (0-90-180-360°) rotation output
- Support split between different pixels screens
- Support 8 layers configuration



VD Series (2xDVI)

Output

- 1920*1200@60HZ
- Powerful Video Layer Capacity
- Seamless Switching



2 Channels Any Rotation DVI



- Support max. 1920x1200@60fps
- Support (0-360°) rotation in any degree
- Support any degree split by multiple outputs
- Support 8 layers configuration



VD Series (2xDVI)

Output

1920*1200@60HZ

Powerful Video Layer Capacity

Seamless Switching

LED Display



Other Module

Communication Board



Support RS232 / RJ45 control
Default IP: 192.168.1.200
RS232 out for external control

Enhanced Communication Board



Support RS232 / RJ45 control
Default IP: 192.168.1.200
RS232 out for external control and device cascade
Support Genlock

DVI Preset Module



Output card Preview
Preview the content of 8 outputs in single port

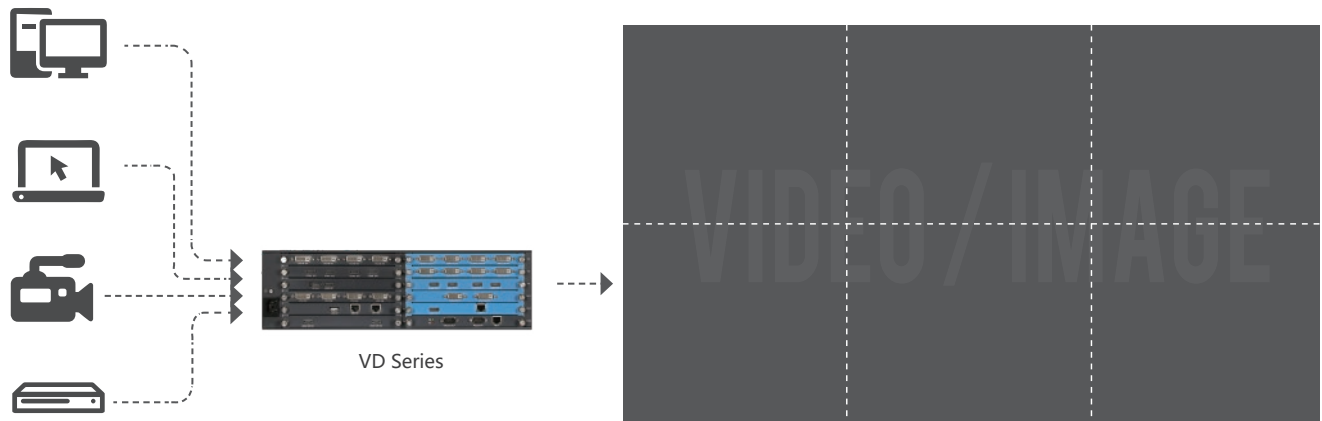
H.264 Preview Module



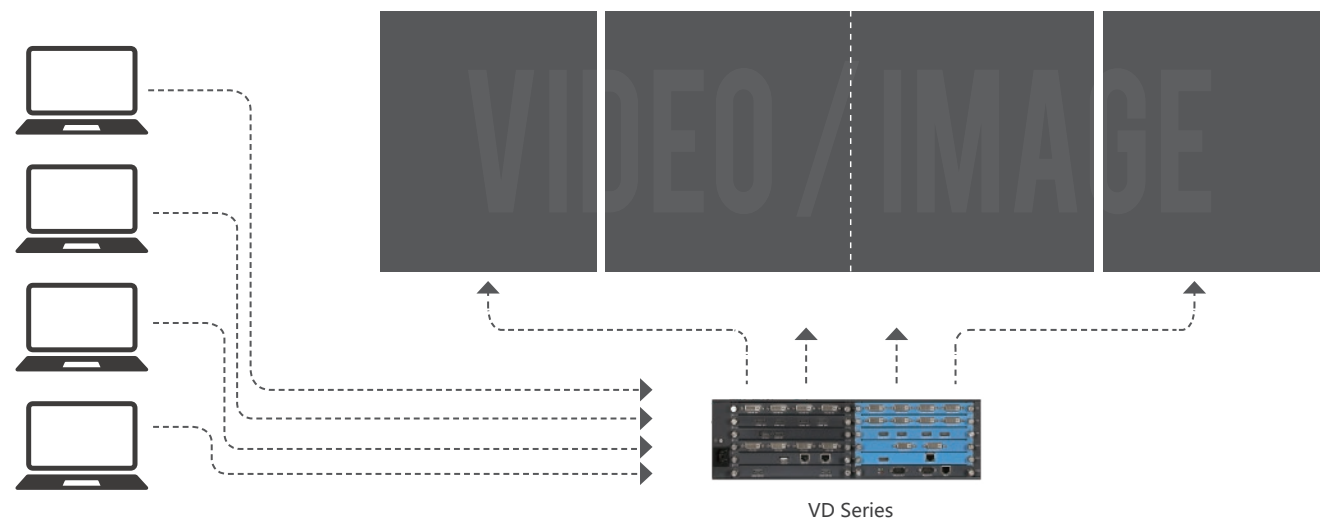
Input Preview by network and HDMI
Input & Output preview with software by H.264 & H.265
Support up to 64 channel Input preview in max

PRODUCT SOLUTIONS

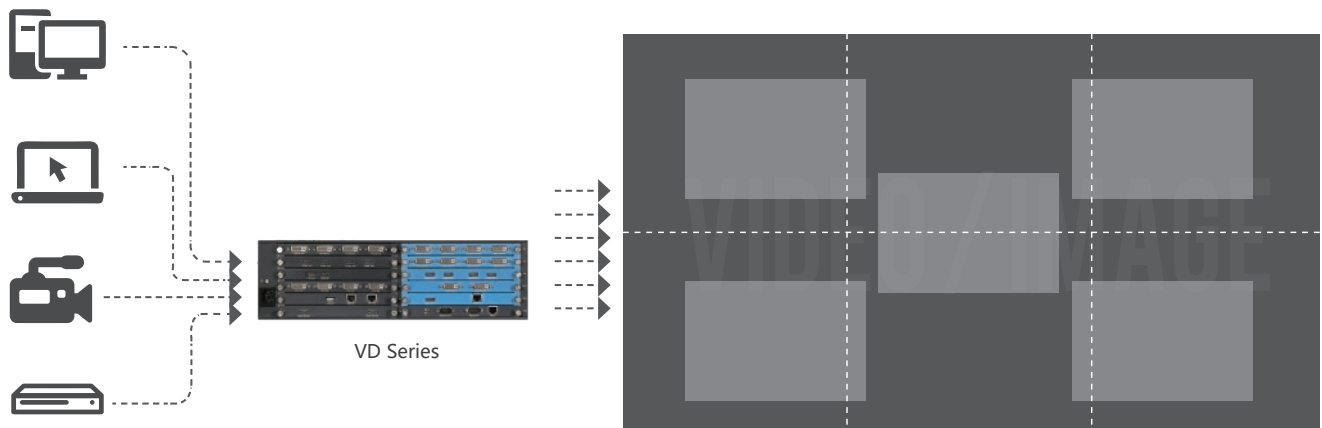
PROJECT 1: One input to multiple outputs in scaling mode



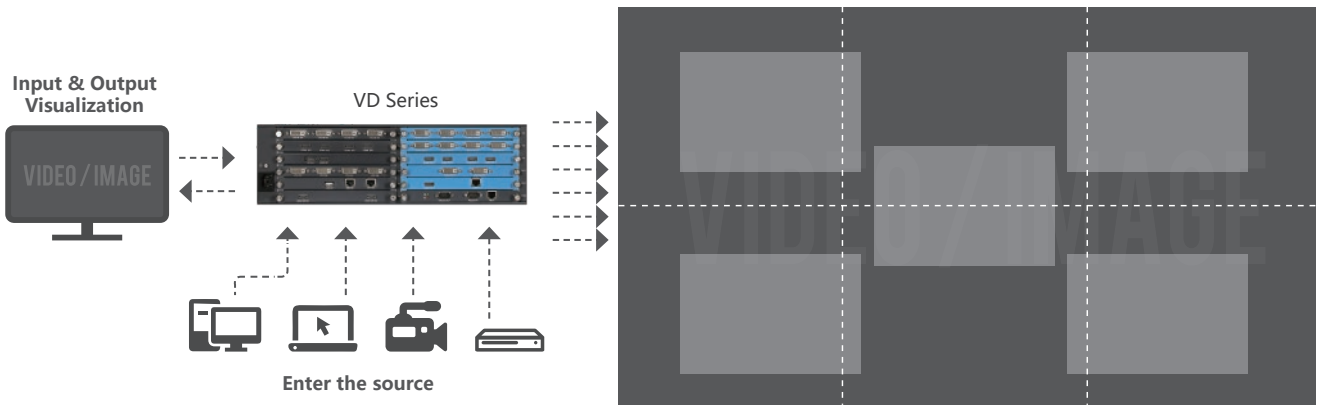
PROJECT 2: 4K Pixel-to-Pixel Splicing



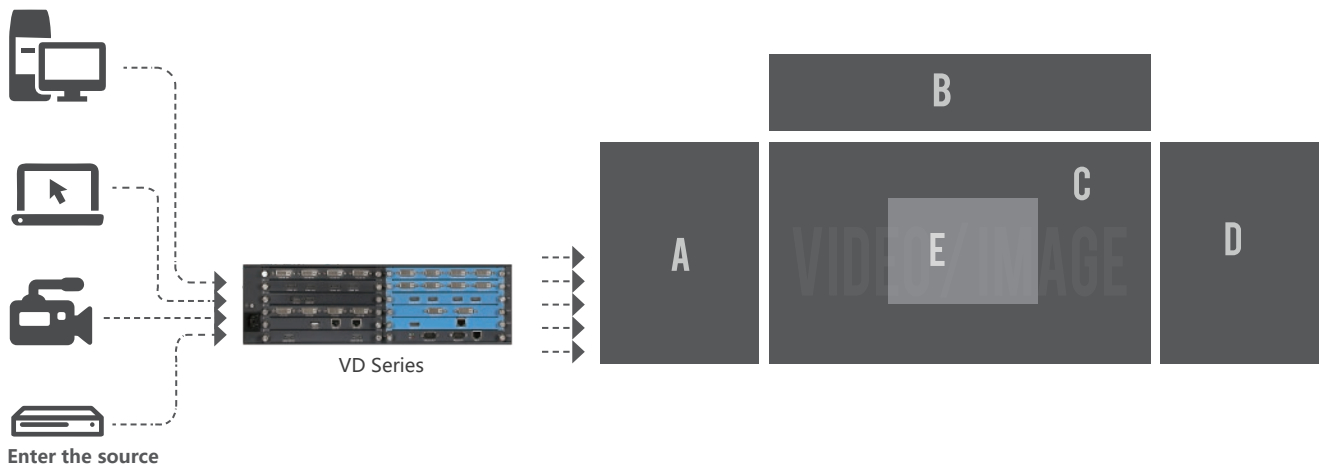
PROJECT 3: Multiple inputs and outputs in pixel to pixel splicing mode



PROJECT 4: Visualization Software



PROJECT 5: Customize Output Resolution by Module



Input

Connector	Quantity	Description
DVI-M	4	Support 2K input ,compatible with HDMI/DVI/VGA/YPbPr/Cvbs (With adapter) Support max. 1920x1200@60fps Support customized input resolution in EDID management Support Input Crop and OSD Support auto adjust for analog signal
DVI-D	4	Support HDMI 1.3 / DVI 1.0 input, HDCP compatible VESA Standard. Support max.1920x1200@60fps Support customized input resolution in EDID management Support Input Crop and OSD
VGA	4	VGA-VESA Standard Support max.1920x1200@60fps Support customized input resolution in EDID management Support Input Crop and OSD Support auto adjust
HDMI	4	Support HDMI 1.3 / DVI 1.0 input, HDCP compatible VESA Standard. Support max.1920x1200@60fps Support customized input resolution in EDID management Support Input Crop and OSD SMPTE Standard. Support 480i 576i 720P 1080i 1080P
SDI	4	SD-SDI HD-SDI 3G-SDI Standard. Support deinterlacing Support Long-line automatic equalization(100m) Support Input Crop and OSD
CVBS	4	SMPTE Standard. Support 480i 576i Support Input Crop and OSD
HDMI 1.4	2	Support HDMI 1.4b / HDMI 1.3 / DVI 1.0, HDCP compatible Support 3840x2160@30fps in max Support Input Hot Backup
4K@60fps HDMI/DP	3	Support Displayport 1.2 / HDMI 2.0, HDCP 2.2 compatible Support 3840x2160@60fps in max
IP	2	Support webcams / Ethernet streaming within 2k resolution Support H.264 & H.265 streaming from IP camera or other stream
HDBaseT	4	Support HDBaseT signal within 2K resolution Support 1920x1200@60fps in max Support Input Crop and OSD
Duallink DVI/DP	2	Support Duallink DVI(24+1) and DP 1.1a Support max. 3840x2160@30fps or 3840x1200@60fps Support Input Crop and OSD
HDBaseT+ HDMI 1.4	2+2	Support HDBaseT and HDMI 1.4 Support 3840x2160@30fps in max Support Input Crop and OSD
Fiber	4	Support 4 channel Fiber input, HDCP compatible Support 10km transcend in single mode and 300m transcend in multi-mode VESA Standard. Support max.1920x1200@60fps Support customized input resolution in EDID management Support Input Crop and OSD SMPTE Standard. Support 480i 576i 720P 1080i 1080P

Output

Connector	Quantity	Description
DVI	4	Output format support SMPTE 720P 1080P Support max.1920x1200@60fps Support customized output resolution (Bandwidth optimization) Horizontal resolution maximum 3840 pixels Vertical resolution maximum 1920 pixels Support 8 layers configuration Compatible with VGA adaptor for analog signal
HDMI	4	Support HDMI1.3 / DVI 1.0 Support customized output resolution (Bandwidth optimization) Horizontal resolution maximum 3840 pixels Vertical resolution maximum 1920 pixels Support 8 layers configuration
HDMI 1.4	2	Support HDMI 4K1.4b / HDMI 1.3 / DVI 1.0 Support 3840x2160@30hz in max.
Fiber	4	Support 4 channel Fiber input, HDCP compatible Support 10km transcend in single mode and 300m transcend in multi-mode VESA Standard. Support max.1920x1200@60fps Support customized input resolution in EDID management Support Input Crop and OSD SMPTE Standard. Support 480i 576i 720P 1080i 1080P
HDBaseT	4	Support HDBaseT signal within 2K resolution Support 1920x1200@60fps in max
90° Rotation Output	2	Support 1920x1200@60fps in max Support (0° -90° -180° -360°) Rotation
Any Rotation Output	2	Support 1920x1200@60fps in max Support (0° -360°) Rotation in any degree




Special Function Module	Description
Comm. Board	Support RS232 / RJ45 control Default IP: 192.168.1.200 RS232 out for external control
H.264 Preview Module	Input Preview by network and HDMI Input & Output preview with software by H.264 & H.265 Support up to 64 channel Input preview in max
DVI Preset Module	Output card Preview Preview the content of 8 outputs in single port

SPROLINK[®]

CREATIVE VIDEO REVOLUTION

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