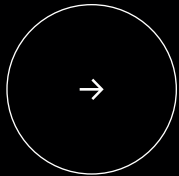


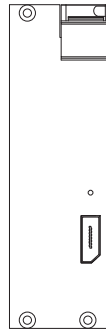
# VFC cards



# VFC cards

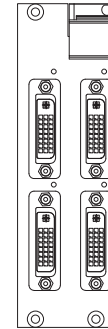
## POWER TO ADAPT

Disguise's patented Video Format Conversion (VFC) technology is a swappable output card that slots into the back of the GX and VX range servers.



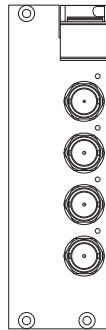
### DISPLAYPORT 1.4

**Ports:** 1x DisplayPort 1.4 output  
**Video outputs:** Up to 1x 4K DCI output  
**Resolutions\*:** Up to 4K DCI  
**Frame rate:** Up to 60Hz\*\*  
**Bit depth:** Up to 10bit  
**Chroma subsampling:** RGB & YUV 4:4:4, 4:2:2, 4:2:0  
**HDR support:** Yes  
**Genlock:** Yes  
**PTP support:** No  
**Latency:** 0 scanlines  
**Supports:** GX 3 + all VX range



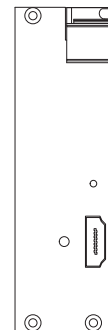
### QUAD DVI

**Ports:** 4x Dual-Link DVI outputs  
**Video outputs:** Up to 1x 2K DCI output or 4x HD outputs using quad split modes  
**Resolutions\*:** Up to 2K DCI  
**Frame rate:** Up to 60Hz  
**Bit depth:** Up to 8bit  
**Chroma subsampling:** RGB 4:2:2  
**HDR support:** No  
**Genlock:** Yes  
**PTP support:** No  
**Latency:** 4-5 scanlines  
**Supports:** All GX range + VX range + Pro range



### QUAD SDI

**Ports:** 4x 3G-SDI outputs  
**Video outputs:** Up to 1x 4K DCI output using Quad 4K split mode or 4x Full-HD outputs using quad split mode  
**Resolutions\*:** Up to 4K DCI  
**Frame rate:** Up to 60Hz  
**Bit depth:** Up to 10bit  
**Chroma subsampling:** YUV 4:2:2  
**HDR support:** Yes  
**Genlock:** Yes  
**PTP support:** No  
**Latency:** 4-5 scanlines  
**Supports:** All GX range + VX range + Pro range



### HDMI

**Ports:** 1x HDMI 2.0 output  
**Video outputs:** Up to 1x 4K DCI output  
**Resolutions\*:** Up to 4K DCI  
**Frame rate:** Up to 60Hz\*\*  
**Bit depth:** Up to 10bit  
**Chroma subsampling:** RGB & YUV 4:4:4, 4:2:2, 4:2:0  
**HDR support:** Yes  
**Genlock:** Yes  
**PTP support:** No  
**Latency:** 0 scanlines  
**Supports:** All GX range + VX range + Pro range

\* Progressive scan only.

\*\* For higher frame rates please contact our Solutions team.

\*\*\* Please see TA-23 listed on Disguise Support [here](#) for a detailed overview on Disguise media servers and their compatibility with existing VFC cards

# IP-VFC

UNLOCK HIGHER IMAGE FIDELITY

You can now enable a SMPTE ST 2110 video output from your Disguise hardware with minimal latency thanks to our new IP-VFC card.



## TECHNICAL SPECIFICATIONS

**Ports:** 4x 25GbE SFP28 outputs

**Video outputs:** Up to 1x 4K DCI output\* or 4x Full-HD outputs using quad split mode in both ST 2110 and SDI

**Resolutions\*\*:** Up to 4K DCI

**Frame rate:** Up to 60Hz\*\*\*

**Bit depth:** Up to 10bit

**Chroma subsampling:** ST 2110 - YUV 4:4:4, 4:2:2 and RGB 4:2:2 in all video formats

SDI - YUV 4:2:2 in all video formats

**HDR support:** Yes

**Genlock:** Yes

**PTP support:** Yes

**Latency:** 0 scanlines

**Supports:** GX 3 + all VX range

## SUPPORTED FORMATS

### 4K DCI (4096 x 2160)

4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p, 4K DCI 29.97p, 4K DCI 30p, 4K DCI 50p, 4K DCI 59.94p, 4K DCI 60p (SINGLE)\*\*\*\*

### UHD (3840 x 2160)

2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60 (SINGLE)\*\*\*\*

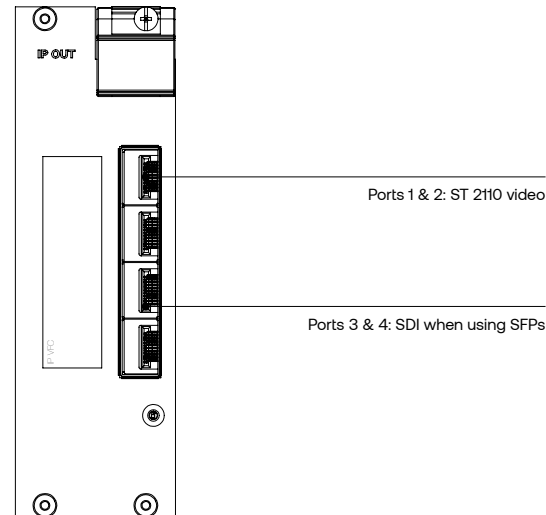
### 2K DCI (2048 x 1080)

2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p, 2K DCI 29.97p, 2K DCI 30p, 2K DCI 50p, 2K DCI 59.94p, 2K DCI 60p (SINGLE, QUAD)\*\*\*\*

### Full HD (1920 x 1080)

1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080i50, 1080p59.94, 1080i59.94, 1080p60 (SINGLE, QUAD)\*\*\*\*

**HD (1280 x 720)** 720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60 (SINGLE, QUAD)\*\*\*\*



\* When in ST 2110 mode, a redundant SMPTE 2110 video signal using Port 2 can be enabled in the event that the video signal from Port 1 goes down, using SMPTE 2022-7 for packet-level redundancy

\*\* Progressive scan only

\*\*\* For higher frame rates please contact our Solutions team

\*\*\*\* The IP-VFC has a split mode, which indicates how the video is formatted. SINGLE mode is when a single video output is enabled for usage with 25GbE SFP28 or a single 12G SDI optical transceiver, whilst QUAD Mode splits the image into four quadrants for usage with two 3G SDI optical transceivers.