



SDI Video Input

- 2 x – 10 bit HD, 3G levels A and B, 6G or 12G UHD switchable
- 6 x – 10 bit HD, 3G levels A and B switchable. Usable as Quad SDI 4x3G SDI input for UHD. Can be used as Key+Fill inputs as well.

HDMI Video Input

- 2x HDMI type A connector with support for 2160p60

SDI Video Output

- 8 x – 10 bit SD, HD, 3G levels A and B switchable

HDMI Program video output

- 1x HDMI type A connector with support for 1080p60

HDMI Multiviewer video output

- 1x HDMI type A connector with support for 1080p60

SDI Audio Input

- 8 channels in HD, 3G HD, and UHD

SDI Audio Output

- 8 channels in HD, 3G HD, and UHD

Multi Rate support

- SDI connections are switchable between standard definition, high definition and UltraHD

Sync Input (Genlock)

- Blackburst or TriSync

I/O interface

- RS-232 - channel for MVP100 control panel

GPIO interface

- 8 General Purpose Inputs – triggered motion start

Physical Specifications

- 440 x 130 x 55 mm

Power Supply

- Included external 12V / 5A power supply

Operating Temperature

- 5° to 50° C (41° to 122° F)

Storage Temperature

- -20° to 45° C (-4° to 113° F)

Relative Humidity

- 0% to 90% non-condensing

SD Format Support

- 625/25 PAL,
- 525/29.97 NTSC

1.5 Gb/s HD Format Support

- 720p50,
- 720p59.94,
- 1080p25,
- 1080p29.97,
- 1080i50, 1080i59.94

3 Gb/s HD Format Support

- 1080p50,
- 1080p59.94
- 1080p60 levels A and B

Ultra HD Format Support

- 2160p25,
- 2160p29.97,
- 2160p50,
- 2160p59.94

SDI Compliance

- SMPTE 259M,
- SMPTE 292M,
- SMPTE 296M,
- SMPTE 425M,
- SMPTE2082-1

Audio Sampling

- Television standard sample rate of 48kHz and 24-bit HD, 20-bit SD

Video Sampling

- 4:2:2

Color Precision

- 10-bit

Color Space

- REC 601,
- REC 709

Outputs definition

Each channel has four rectangles definition of the way how input signal is divided into 4 different outputs. Is it done by drawing 4 different windows 1,2,3 and 4. Content bordered by every window will be send to corresponded output.

Windows motion

Motion is possible for every rectangle. User select size and position of Start and Stop the rectangle.

One can select motion mode:

- Once – single pass from Start to Stop,
- Ping-Pong – cyclic pass Start-Stop Stop-Start Start-Stop,
- Loop – cyclic pass Start-Stop Start-Stop.

Multiviewer output

Live preview of selected outputs.

- Motion preview – visible rectangles Start, Current, Stop on live input, but only for selected tab 1,2,3 or 4
- Switcher Preview – complete switcher view.
- Input / PGM view – switcher view with active input preview.



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MVP100

MVP100 is an advanced video scaler that enables UHD signal (3840x2160) processing and conversion into four different high quality streams, with their resolution up to FullHD. What's more, the product has two independent conversion channels!

This allows you to connect two 4K signal sources running simultaneously and independently, which means the signal can be converted into a total of 8 3G-SDI outputs.

This solution is ideal for professionals who deal with production and broadcasting of video materials, using a variety of sources and signal types. It is perfect to apply both on set and during events' transmission.

In addition, MVP100 scaler is really easy to use. A complete control panel is provided with the device, and RS232 connection is used to connect it with a main device.

MVP100 simultaneously scale signals from two video inputs with resolutions up to UHD (3840x2160). It supports a variety of video formats and enables connection of signal sources in the form of SDI or HDMI. The output signals (8 channels) are created by indicating an active area from the area of the device's input signals for each channel. These areas are defined with easy to use external control panel.

The definition of the area, which will determine the output content, is nothing more than a simple positioning of a rectangle in the MultiViewer preview for a given channel, and that, of course, against the background of the device's input signal. For one of the channels, you can scale the signal from full 4K resolution to FullHD, and there is up and down scaling (zoom) possible for all other outputs. The output area (position of each rectangle) may be a function of a variable, which means in constant motion.

This way, MVP100 creates 8 virtual outputs (2 x 4 or 1 x 8) which are provided to Preview and Program bus of integrated video switcher. It allows do simple transitions effects, support upstream and downstream key as well. MultiViewer HDMI output is used for preview and device configuration by OSD menu.

MVP100 means multiple applications and uses, as this device allows for a variety of effects that will satisfy every professional engaged in production and broadcasting of audiovisual materials!



Creating a video wall

Video walls are a modern and increasingly popular solution used in entertainment, advertising, marketing, and special events. With its capability to separate the signal from 4K inputs, MVP100 scaler is an excellent tool for creating a video wall by multiplying signals from one or two 4K sources.



External control panel

FULL POSSIBILITIES OF CONTROLLING YOUR VIRTUAL CAMERA

MVP100 panel allows you to control multiple functions and settings on easy OSD Menu Both in the case of operators' preferences and in many fields of application, it will undoubtedly be appreciated by the users due to the speed and ease of use. With such functionalities, MVP100 with a single operator can act as almost an entire film studio. Shooting, for example, a concert may gain more dynamics and individual character. MVP100 acts as video switcher too. All 8 virtual signals are available on Preview and Program bus of build switcher. It provides background transitions and CG inputs for graphics addition as well (upstream and downstream).



Video production and post-production

MVP100 capabilities are perfect for, among others, video image post-production. The material is recorded with one or two video cameras at 4k resolution.

With MVP, we can not only change the composition, but also the shots. The end result will resemble the usage of several cameras, and transitions will be smooth and natural. At the same time, this solution allows for the material to be realized by a single operator – thus allowing the reduction of production costs. And the resulting material will still be of a high quality and FullHD resolution!

The highest quality in security systems

MVP is an invaluable tool in creating a top-notch security systems. It allows you to get eight 3G HD outputs from a single 4K camera.

As MVP100 processes the signal in real time, you obtain the effect of 8 high-quality mobile video cameras – but without their actual movement.

This way, the scaler provides both new opportunities and the possibilities to cut down the costs by reducing the number of actual video cameras and cables, while simultaneously increasing precision and quality in capturing all the important details.

