



Reckeen EZ MVP 100 technical specification

Video input

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

Multiviewer output

HDMI video output

- 1x HDMI 1.4 type A connector with support for 1080p60

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.

Video formats

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
- **SDI Compliance**
 - SMPTE 259M,
 - SMPTE 292M,
 - SMPTE 296M,
 - SMPTE 425M,
 - SMPTE2082-1

3 Gb/s HD Format Support

- 1080p50,
- 1080p59.94
- 1080p60 levels A and B
- **Ultra HD Format Support**
 - 2160p25,
 - 2160p29.97,
 - 2160p50,
 - 2160p59.94

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 Start-Stop,
- Loop – cyclic pass Start-Stop Start-Stop.

Video output

SDI Video Output

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

HDMI Program video output

- 1x HDMI 1.4 type A connector with support for 1080p60

Audio input

SDI embedded Audio Input

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

Audio output

SDI embedded 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

Dimensions

- 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

Sampling

Audio Sampling

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

Video Sampling

- 4:2:2

Color

Color Precision

- 10-bit

Color Space

- REC 601,
- REC 709



Any information, illustrations and technical data are subject to change without prior notification.



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www.floatingpoint.com.hk

VI.X.MMXIX

Contact us:

E-mail: contact@floatingpoint.com.hk

Telephone / WhatsApp:

(+852) 5100 6293 (+852) 9273 9364



ADVANCED VIDEO CONVERTER FOR UNIVERSAL USE



MVP¹⁰⁰ EZ

Multi Video Processor



Multi Video Processor

Advanced video converter for universal use

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.

Reckeen EZ MVP100 is an advanced video scaler that simultaneously scale 8 signals from two video inputs with resolutions up to UHD (3840×2160) or eight 3G-SDI inputs. 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.

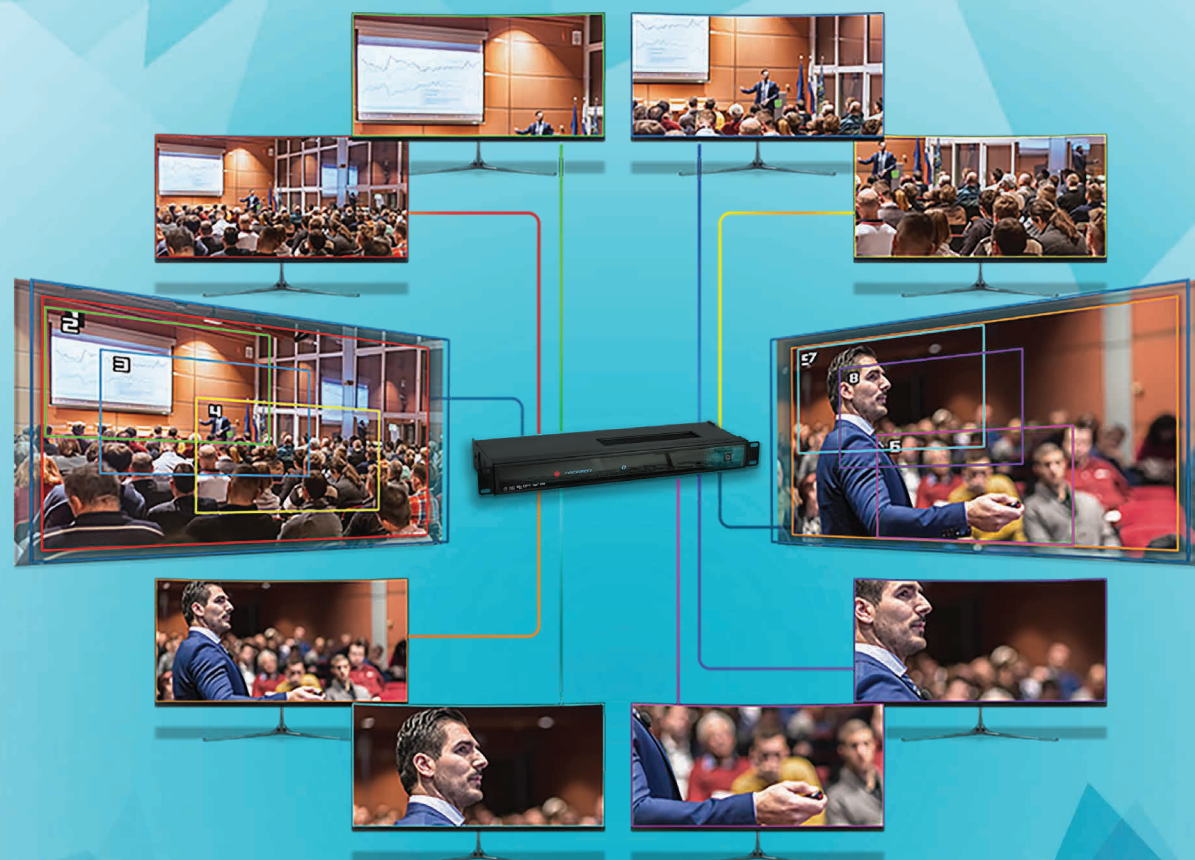


Video production and post-production

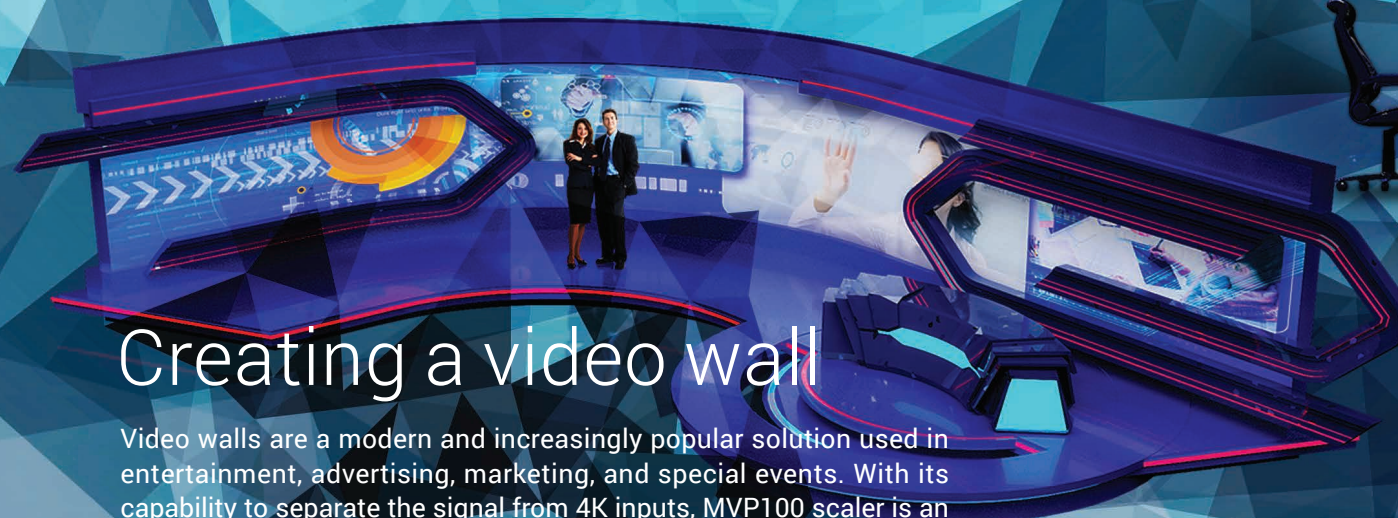
Reckeen EZ MVP100 capabilities are perfect for, among others, video image post-production. The material is recorded with one or two video cameras at 4k resolution.

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 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 each of the channels, you can scale the signal from full 4K resolution to Full HD, 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.



Very often, what limits you the most is that you don't have enough room for all the operators or a lot of extra angles. If you don't have much space, the two 4K cameras give you the possibilities tantamount to using eight cameras. It opens you a door to a world of so many angles.



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.

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!

Live Events



Full possibilities of controlling your virtual camera



News Studio

MVP 100 can be used as a switcher during a live production to make your program more dynamic. You can choose a wide angle, but also a shot of each person in the studio. When one person is talking, all you need is to switch to the right shot and zoom in or out. No cameraman is needed! You have a complete control over your live production.

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.