

# NEW! PROFESSIONAL VIDEO STREAMING and RECORDING APPLIANCE



## Matrox<sup>®</sup> Monarch<sup>™</sup> HD

### Professional video streaming and recording appliance

Matrox Monarch HD is a small, easy-to-use video streaming and recording appliance designed for professional video producers who need to simultaneously stream a live event and record the master quality version for post-event editing. By separating the task of recording from streaming in a single integrated unit, Matrox Monarch HD ensures that the Content Delivery Networks (CDNs) are focused on delivering quality video to your audience while you control the quality of the archive.

From any HDMI input source such as a camera or switcher, Matrox Monarch HD generates an H.264-encoded stream compliant with RTSP or RTMP protocols. While encoding the video at bitrates suitable for live streaming, Matrox Monarch HD simultaneously records a high-quality MP4 file to an SD card, a USB drive, or a network-mapped drive. Matrox Monarch HD is remotely controlled using any computer or mobile device with a web browser.



## Record master quality video while streaming

If an event is worth streaming, it is worth recording at the highest possible quality. The better the recording quality, the more value it offers a post event produced asset. These assets can be made available to your audience as fast turnaround VOD files or as fully post produced highlight reels.

The quality of your recording should not be affected by your upload bandwidth. Matrox Monarch HD lets you set recording bitrates as high as 30 Mbps while simultaneously streaming at up to 20 Mbps.

Matrox Monarch HD injects the highest quality video into every bit regardless of input source or target bitrate. Combining the power of the built-in H.264 encoder with Matrox's high quality deinterlacing and scaling engines guarantees stunning results.

## Ready to edit and upload with MP4

Matrox Monarch HD records high quality H.264 video as MP4 files, which offer maximum versatility for all applications. Upload a file to your own web server or to a Content Delivery Network (CDN) like YouTube. Alternatively, you can directly import the file into most creation tools without the need for file transcoding.



## Connect with HDMI

The HDMI output of the Matrox Monarch HD makes it easy to monitor what you are streaming and recording, regardless of whether the signal is received from a camera, a switcher, a signal converter, or a computer. Eight channels of embedded audio can be processed and output. Two channels of audio input with loopout are also available via 1/8" stereo jacks.

## Robust appliance

Powerful and robust, Matrox Monarch HD offers simple, one touch stream and record pushbuttons, low power consumption, a locking power connector, and a fanless design. Its design allows it to be just as easily located on a desktop as in a rack—up to three units can fit in a single 1RU tray. The software is built upon a secure embedded Linux O/S so there is zero risk of automatic updates or unscheduled exchanges with third party servers.



RTSP streaming



RTMP streaming

## Easily reach your audience

Whether you're providing live content to Flash or Wowza servers, or to any of the popular CDNs, Matrox Monarch HD's flexible streaming internet protocols' support is up to task. Its useful encoding presets let you select the most appropriate resolution based on the available bandwidth. The target encoding streaming parameters only need to be entered once and saved as a unique profile. Multiple profiles can be saved if the device is used in different environments. Each profile can be loaded instantly without having to reenter data.

## Record to anything

Matrox Monarch HD lets you select from a variety of recording media types. Use a USB key or drive when portability is important. A SD card might be your best option when a more secure and compact solution is required. Alternately, a system drive on a computer found on the network may prove extremely useful if multiple individuals need to access the footage.

Regardless of where you store the footage, the record controls can be executed without affecting the streaming operations. High quality files are available anytime during the streaming session for creating complementary video assets.



## Remote command and control

A simple web page is all that is needed to harness the power of Matrox Monarch HD. You can control and configure the appliance using any device on your network that supports a standard web browsing application. A preview of the main IP broadcast stream is embedded in the control web page.\*

A single Matrox Monarch HD device can act as a master to multiple slave devices. From a single web page, you can simultaneously start the recording and/or streaming of up to four Matrox Monarch HD devices.

\* The preview may not be available in first release. Please verify website at time of release for updated information.

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