# **CORIOmaster** Streaming Media & 4K Playback Module





### CORIOmaster — Creating Memorable Video Experiences



CORIOmaster is the industry's most versatile, cost effective and easy-touse stand-alone video processor for the creation of high impact, tailored video experiences.

With CORIOmaster, you can easily implement streaming media and local playback mixed with traditional video sources all within one chassis.

#### **Traditional AV** Streaming media enabled AV Simple, secure, direct Jses generic IT networking for super-flexible solution connect using proven connections and formats models. Modularity, HDMI, DVI-U Use existing cabling and and SDI connectivity with commercial off-the-shelf (COTS) hardware. flexible hardware. Combine with HDBaseT / Easily reach anywhere proprietary AV extension in your network or or streaming encoders. even globally. Fully future proofed for Future proofed using low latency, field upgradeable new formats, resolutions FPGA architecture. and encoders.



### Streaming media with CORIOmaster

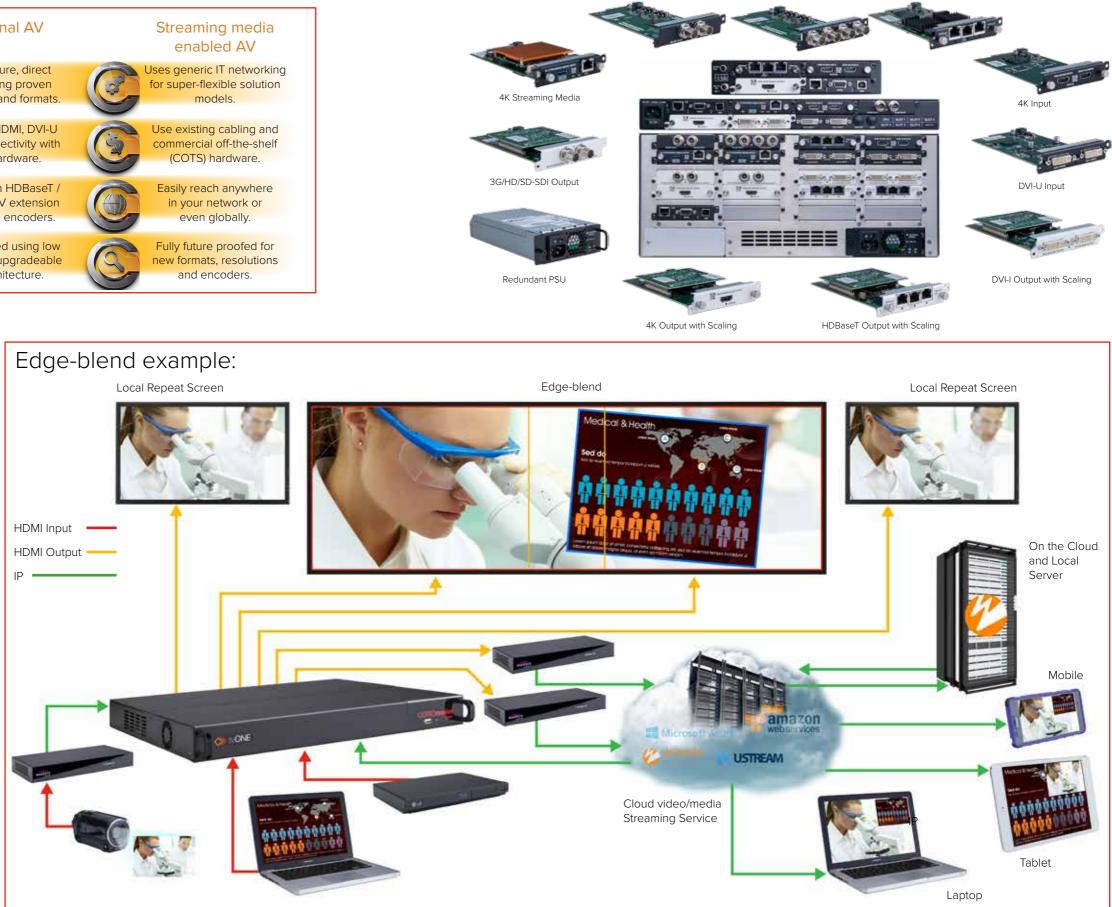
Streaming video has quickly become a vital communication tool, making it easy for businesses and organizations to engage viewers around the world to ensure messages are seen and absorbed through high quality clips and still images. Combining the power of streaming digital video with the vast reach of the Internet creates endless possibilities for directly delivering messages straight to viewers.

#### CORIOmaster Advantages

Connectivity - using standard AV connectivity, streaming media or local media store. Flexibility - modular solution that can integrate seamlessly with streaming technology. Reach – Local, near local or global reach options.

CORIOmaster simplifies streaming with a solution that makes delivering high guality video to a worldwide audience both easy and affordable. These streaming capabilities open up a host of new horizons where signals can come locally from within your facility or from any location globally. With CORIOmaster, you can easily implement streaming media to seamlessly blend your media streams with local media and AV connections for a best-inclass hybrid solution.

Additionally, CORIOmaster's streaming media capabilities also allow the flexibility of streaming traditional AV signals, such as HDMI. Simply add a Magenta Encoder-100 and any signal can stream to the cloud. 3rd party streaming engines such as WOWZA add further flexibility for streaming to laptops, tablet computers and mobile phones.



CORIOmaster can accommodate numerous I/O configurations in the 16 universal video slots available; when inserted, the

### CORIOmaster Streaming Media & 4K Playback Module

The Streaming Module is a powerful addition to the CORIOmaster, CORIOmaster mini and CORIOmaster micro family that allows steaming inputs as well as playback of local media from internal storage or USB3.0 devices. The module is quite simply a game changer and adding this module opens up a world of new possibilities for your CORIOmaster deployments. Create simpler systems, eradicate wires, make powering-up really simple and ease your control pain by using a single device.



- 2 Video channels 4K/30 & HD or Dual HD Media playback
- Dual Channel HD streaming over IP
- 8K Still Image support



### The Perfect Partner gear for CORIOmaster

You don't' need to be a networking expert. Our Magenta Encoder 100 is automatically discovered and easily configured with CORIOmaster.





The perfect partner gear for CORIOmaster - For super easy set ups, the CORIO grapher software will automatically recognize your Magenta ENCODER-100, even if it is on a different subnet!

Encoding Capability - Up to full 1080p/60 and 1920 x 1200 video and audio using H.264 compression procamp control for changes to brightness, contrast, saturation and hue. Supports widescreen and standard aspect ratios at all standard resolutions.

Remote System Management – Feed remote locations with content from your CORIOmaster. Stream a CORIOmaster output to be able to monitor your systems remotely or view on your PC or mobile devices.

## **CORIO**grapher Design and Control Software:

It's easy to make a complex IP control interface – our team of Interface Designers have worked tirelessly to make it a breeze to handle IP feeds using **CORIO**grapher!

### IP Stream and Local Media Management

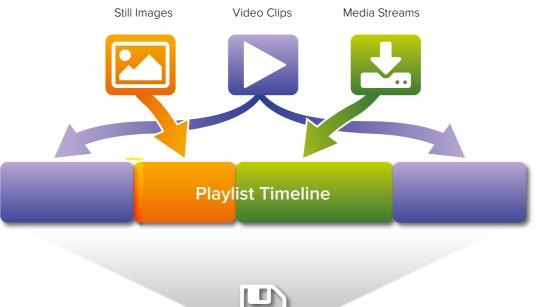
From CORIO grapher, simply navigate to your media streams and if you are using a Magenta Encoder 100 - it will be automatically recognized!

In order to manage IP feeds of differing resolutions, you can set a master resolution for the playlist. All shown IP feeds and/ or local clips and stills will be up/down/cross converted to a unified resolution using the high quality, award winning CORIO scaling engine. You can navigate to media stored on the streaming module and/or USB drive. Your media will be displayed in the **CORIO** grapher brower either as an icon or a detailed text listing.



### Playback Control

Furthermore, more IP feeds and locally stored media can also be ordered in a playlist and then played out in a queue. You can even build your playlists in the background for later playback as a queue or even modify them on the fly during playback.





Save Playlist

## **Applications**

#### Retail

This eye catching video experience is a standalone CORIOmaster system that works without the need for any intervention – just power it up and it plays a queue of IP streams together with locally stored still and video clips - it couldn't be easier to set up, manage or control!

#### CORIOmaster Advantages

- Integrated source, playlist and presets with eye catching transitions
- Simple to program & easy to manage remotely less hardware needed
- Smaller space requirements
- Quiet in use approx. 46 dB (the same noise level as your office air conditioning



#### **Control Room**

Here we have a traffic control room fed with a hybrid of IP camera feeds and classic AV inputs which are displayed in multiple windows onto three UHD/4K displays using CORIOmaster.

### HDMI Input UHD 4K Output ID

#### CORIOmaster Advantages

- Simple to set up IP feeds
- Easy orchestration of inputs for control wall set up
- Queues can be used to switch between IP feeds and locally stored still image and video material
- Presets give quick access to different video layouts
- Borders can be animated to highlight particular feeds











### **Technical Specifications**

#### Magenta Encoder-100

Video Input: Resolutions: Video Output (loop out): scaling; Preview mode: Resolutions: Audio Support: Audio Line-In: Network Connector: Bit Rates: Power: Environmental:

HDMI w/ L-PCM audio up to 1920x1080p60, 1920x1200 HDMI w/ L-PCM audio, w/ optional

HDMI & VGA up to 1920x1080p60, 1920x1200 L-PCM audio via HDMI 3.5mm analog stereo audio Audio Line-Out (loop out): 3.5mm analog stereo audio **RJ45** Compression Standard: H.264/MPEG4 Part 10 (AVC) 100Kbps to 20Mbps 100-240V AC In, 5VDC Out, 15W DIN4 Locking power connector

Operating Temperature: 0 to 45° C -40 to 55° C 20 to 80% (non- condensing) Non-Operating Humidity: 5 to 95% (non-condensing) 135.05 years @ 40° C (no moving parts) 2 years

### Product Item Number

ENCODER-100

Non-Operating: Operating Humidity:

MTBF:

Fanless:

Warranty:

Magenta Encoder 100



#### Streaming Media & 4K Playback Module

#### AV over IP

Interface Video Decoding

Bit Rates Colour Depth Supported Resolutions Unicast Streams Multicast Streams Control Interface

#### Media Handling

External Supported devices

Internal Remote Maintenance

#### Media/Images

Interfaces Video Codecs

Video Formats Playback Bit Rates

#### Still Image

File Playback Resolutions Supported Up to 3480x2160 @ 30fps Up to 1 Up to 1080p60@60fps Up to 7680 x 4320 Playback Interface

#### Product Item Numbers

CM-AVIP-IN-1USB-1FTH C3-540 C3-510 C3-503 ENCODER-100

Module with 16GB storage CM-AVIP-IN-1USB-1ETH-128 Module with 128GB storage CORIO**master** CORIOmaster mini CORIOmaster micro Single channel encoder

<sup>1</sup> Planned update via Firmware

<sup>2</sup> Images will be rendered to 4K

<sup>3</sup> Future Release





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H.264 (Main, High), MPEG4, H.265/ HEVC<sup>1</sup> (Main) Up to 25Mbs per stream 4:2:0, 4:2:2 Configurable to 1920x1080p60 RTSP, RTMP, HTTP, MPEG-TS RTSP, MPEG-TS via CORIOgrapher v2

1 x GbE Ethernet Port

1 x USB 3.0 Interface Flash file systems FAT, FAT32, ext3, ext4, NTFS High speed storage up 128GB<sup>3</sup> File transfer supported<sup>3</sup> through  $\ensuremath{\text{CORIO}}\xspace$  grapher  $\ensuremath{\text{v2}}\xspace$ 

USB3.0, internal storage, network H.264 (CBP, Main, High), H.265/HEVC1 (Main) mp4, mov, mkv, m4v, ts, mts, m2ts, mt2 Single stream to 100Mbs, Dual Streams to 40Mbs JPEG, PNG, BMP

Up to 2 Still images<sup>2</sup> via CORIOgrapher v2