tvONE®

SIGNAL
DISTRIBUTION

EXTENSION & DISTRIBUTION
FOR ALL AV SIGNALS

SUPPORTING
MISSION CRITICAL
INSTALLATIONS
WORLDWIDE

MAGENTA®

A ⟫ tvONE BRAND

Magenta is proud to be a tvONE brand with more than 30 years of experience in the AV industry. Magenta has a proven track record for developing innovative solutions that deliver exceptional experiences, manufacturing high-quality, ingenious products for signal management and racking while delivering world-class customer service.
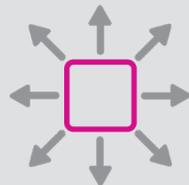
SUFFERING FROM DEGRADED VIDEO?

Step up to Magenta's leading range of reliable and robust video extension and distribution solutions.

EXTENSION

Move up to our premier range of dependable video extension solutions and deploy digital video extenders with simplicity and long-term confidence. Choose from our range of cost effective, ultra-high performance and flexible extenders whatever your source or extension method.

DISTRIBUTION

Use our superior distribution solutions to take a single input signal and feed it to multiple locations while still maintaining guaranteed signal quality. Our series of ultra-slim HDMI 2.0 Splitters and Distribution Amplifiers provide a high-performance solution.

IP

Enjoy seamless integration of streamed, high-quality video and audio from a range of sources directly into your CORIOmaster2, CORIOmaster or CORIOview. Automatically pairing with the tvONE devices allows H.264/H.265 IP streams to be displayed seamlessly to a video wall.

EXPERIENCE THE MAGENTA DIFFERENCE

SHORT TO MEDIUM RANGE POINT-TO-POINT EXTENSION

The Magenta Research Active Optical Cable range provides a simple yet powerful solution for extending high resolution signals over long distances for every application by choosing the jacket type you need. These plug and play cables are available in HDMI 2.0 and DisplayPort variants without compression or latency up to 328ft (100m) and without the need for external power.

DISPLAYPORT 1.4 EXTENSION

| 8K60 | 4:4:4 |

The MG-AOC-88x DisplayPort 1.4 plug and play cable series supports up to 8K60 4:4:4 with no compression or latency up to 328ft (100m) and is available in UL rated Plenum (CMP), Low Smoke Zero Halogen (LSZH), or with a rugged Armored core, providing the ultimate flexibility.

HDMI 2.0 EXTENSION

| 4K60 | 4:4:4 |

The MG-AOC-66x HDMI 2.0 plug and play cables series supports up to 4K60 4:4:4 with no compression or latency up to 328ft (100m) and is available in UL rated Plenum (CMP), Low Smoke Zero Halogen (LSZH), or with a rugged Armored core, providing the ultimate flexibility.

ARMORED ACTIVE OPTICAL CABLE (DP1.4 & HDMI 2.0)

The rugged Active Optical cable range provides a simple yet powerful solution for extending high resolution video over long distances with watertight ends and an armored core. The MG-AOC-66A (HDMI 2.0) and the MG-AOC-88A (DisplayPort 1.4) plug and play cables supports up to 4K60 4:4:4 (HDMI 2.0) and 8K60 4:4:4 (DisplayPort 1.4) with no compression nor latency up to 328ft (100m). Crush resistant up to 15,000lbs of force and without the need for external power, makes this a very flexible option for live events.

Compatible tvONE Products:

Video Processors and Multi-Window Processors

The Active Optical Cable range is the perfect extension method for use with the CORIOmaster family, CORIOmaster2 and CORIOview. The range offers unrivaled processing power, allowing any signal in, to any signal out in glorious, eye popping 4K quality.
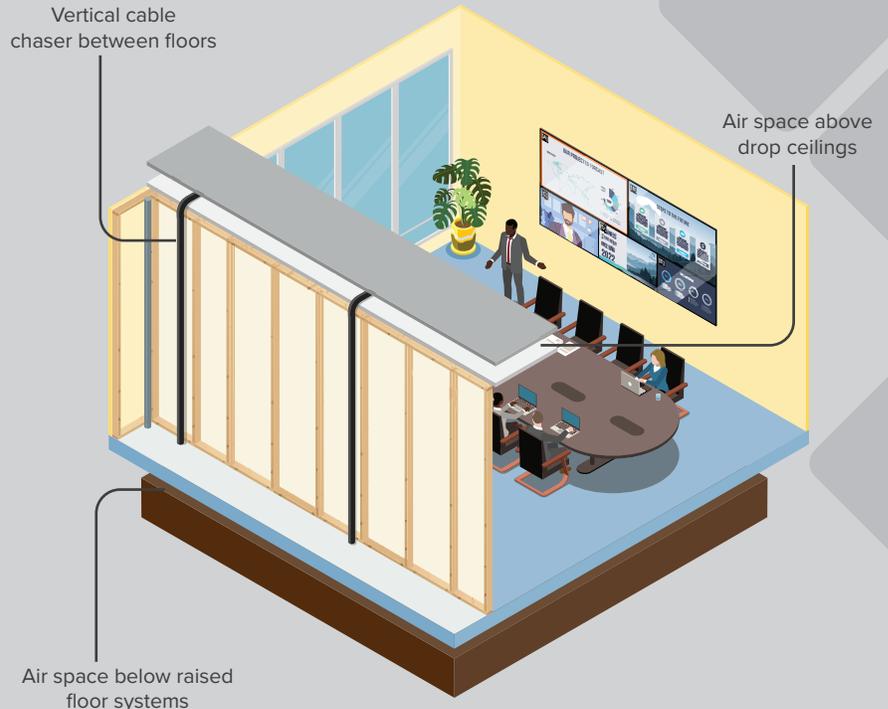
CHOOSING THE RIGHT CABLE VERSION FOR YOUR APPLICATION

JACKET OPTIONS

Magenta Active Optical cables are available in standard, Plenum and Low Smoke Zero Halogen (LSZH) versions. Choose either Plenum or Low Smoke Zero Halogen (LSZH) jacketed Active Optical Cables where smoke emission and toxic fumes pose a risk to human heath in the event of a fire and where your cables are routed through building voids.

Also use Low Smoke Zero Halogen (LSZH) or Plenum cables when fire safety is critical, especially in enclosed spaces. In emergency fire situations, the low smoke factor helps maintain visibility and can reduce respiratory damage, while the zero halogen material cuts the production of toxic, halogenated gases. Active Optical Cables are also lighter than standard HDMI or CAT cables making for easier installation and low cable stress.

Vertical cable chaser between floors

Air space above drop ceilings

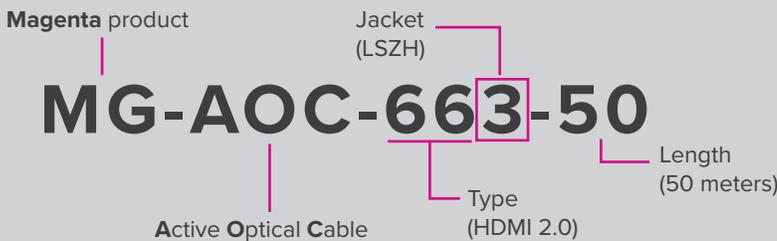Air space below raised floor systems

Low Smoke Zero Halogen cables are more easily disposed of, because they do not release harmful fumes into the environments as they do not contain any halogen elements (fluorine, chlorine, bromine, iodine and astatine).

SPECIFYING MAGENTA ACTIVE OPTICAL CABLES

It's easy to specify the correct cable for your application as all of Active Optical Cables follow the same naming protocol.

For example, a 50 meter HDMI 2.0 Low Smoke Zero Halogen cable is:

Magenta product

Jacket (LSZH)

MG-AOC-663-50

Length (50 meters)

Active **O**ptical **C**able

Type (HDMI 2.0)

Type	Jacket	Length
66 = HDMI 2.0	1 = PVC	10-100
88 = DP 1.4	2 = Plenum	
	3 = LSZH	
	4 = Armored	

Compatible Green Hippo Products:
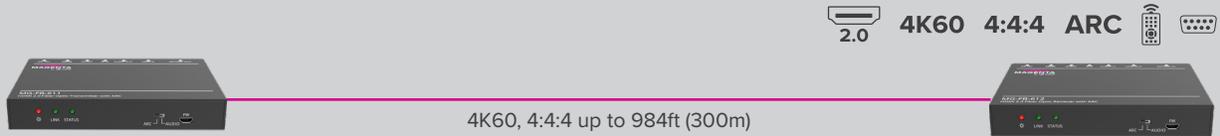
Hippotizer Media Servers

Green Hippo is a tvONE brand, specializing in the design & manufacture of hardware and software for real time manipulation of video in the AV industries. The Armored Active Optical cable is the perfect addition for your live event set up.

SHORT TO MEDIUM RANGE POINT-TO-POINT EXTENSION

Magenta provides simple yet powerful solutions for extending high resolution video up to 300m with no compression.

4K60   4:4:4   ARC

4K60, 4:4:4 up to 984ft (300m)

The MG-FB-61x fiber optic transmitter and receiver kit is a powerful solution for extending uncompressed 4Kx2K 60Hz HDMI 2.0 signals over very long distances using multi mode or single mode LC fiber.
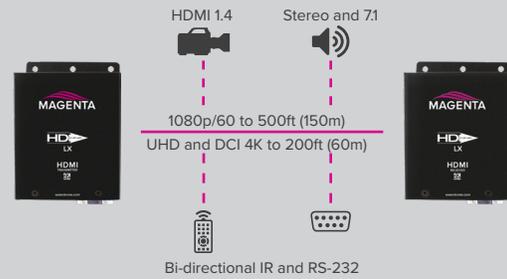
SUPERIOR POINT-TO-POINT EXTENSION

HD-One extension delivers ultra-reliable HDMI extension with real performance and distances up to 500ft (150m) using Cat 5e, Cat 6 and Cat 7 cables, together with class-leading performance in environments with emissions and interference.

HDBaseT Extension

HDMI 1.4

1080p/60 to 500ft (150m)
UHD and DCI 4K to 200ft (60m)

Stereo and 7.1

HDBaseT Extension with control

HDMI 1.4   Stereo and 7.1

1080p/60 to 500ft (150m)
UHD and DCI 4K to 200ft (60m)

Bi-directional IR and RS-232

The HD-One DX series is available in HDBaseT and extended range variants in a compact form factor for the transmission of HDMI 1.4 signals including 1080p, 3D, UHD/4K and 4K DCI. Together, the HD-One DX series has full audio support including LPCM 7.1CH, Dolby, TrueHD, Dolby Digital Pluys and DTS-HD.

The HD-One LX series offers the same superior performance of the DX Series with additional support for bi-directional RS-232 and two-way, triple band infrared signals.

Compatible tvONE Products:

CORIOmaster mini   CORIOmatrix   ONErack

SIMPLE SPLITTERS AND DISTRIBUTION AMPLIFIERS - UP TO 8 OUTPUTS

Our range of splitters and distribution amplifiers provide guaranteed performance and allow you to simply and easily distribute your content to up to eight displays.

HDMI 2.0 ULTRA-THIN DISTRIBUTION

Some applications demand ultra-thin 4K HDR, HDMI 2.0 distribution amplifiers that can be installed in the smallest of spaces while still complying with HDCP 2.2 protection. The MG-DA-61x series is ultra-compact in size at 18mm in height.

MG-DA-612
TWO PORT SPLITTER

2.0   HDR   HDCP 2.2

MG-DA-614
FOUR PORT
DISTRIBUTION AMPLIFIER

2.0   HDR   HDCP 2.2

MG-DA-618
EIGHT PORT
DISTRIBUTION AMPLIFIER

2.0   HDR   HDCP 2.2

The Magenta Research MG-DA-61x series of ultra slim HDMI 2.0 Splitters and Distribution Amplifiers provide a high performance solution for distributing HDMI signals with video output up to 4K2K@60Hz (YUV444) resolutions and HDR (High Dynamic Range Imaging) support, which gives the most life like video experience.

Support is also offered for up to 32 audio channels with sampling rates up to 192kHz and passthrough of 7.1 channels of digital audio including high resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS HD Master Audio and Dolby Atmos.
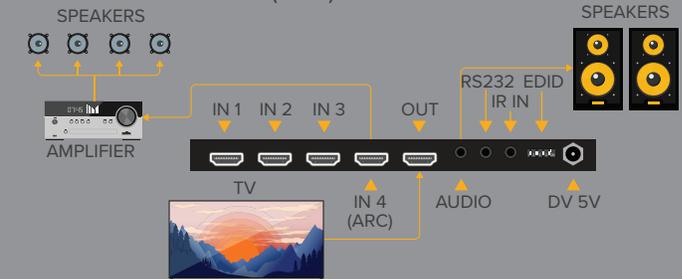
Compatible tvONE Products:

HDMI 2.0 ultra-compact switcher

1T-SX-654

Audio Return Channel (ARC)

END-TO-END SOLUTION
FOR HDMI 2.0 SWITCHING, EXTENSION AND DISTRIBUTION

Combine tvONE extension, switching and distribution solutions to create compact, interoperable and proven solutions. In this small House of Worship application tvONE reliably extends signals using Active Optical Cables, utilizing a compact 4-port switcher for source selection before distributing the signal to the audience for viewing through a projector and side monitors.

PRESENT WITH CONFIDENCE

The client required a presenter confidence monitor in a compact lectern. An ultra-slim splitter was deployed which can fit even in the smallest of spaces.

MG-DA-612

SMALL BUT MIGHTY

With space at a premium, the tvONE 1T-SX-654 HDMI auto-switch combined with a 4-port HDMI Distribution Amplifier takes up less space than 1RU of shelf space, yet offer the highest quality and simple operation.

1T-SX-654

MG-DA-614

RELIABLE SIGNAL EXTENSION

Magenta Active Optical Cables allow powerful, easy install extension of HDMI 2.0 signals. Versions ranging from 10 to 100 meters with true plug-and-play performance are perfect for every application.
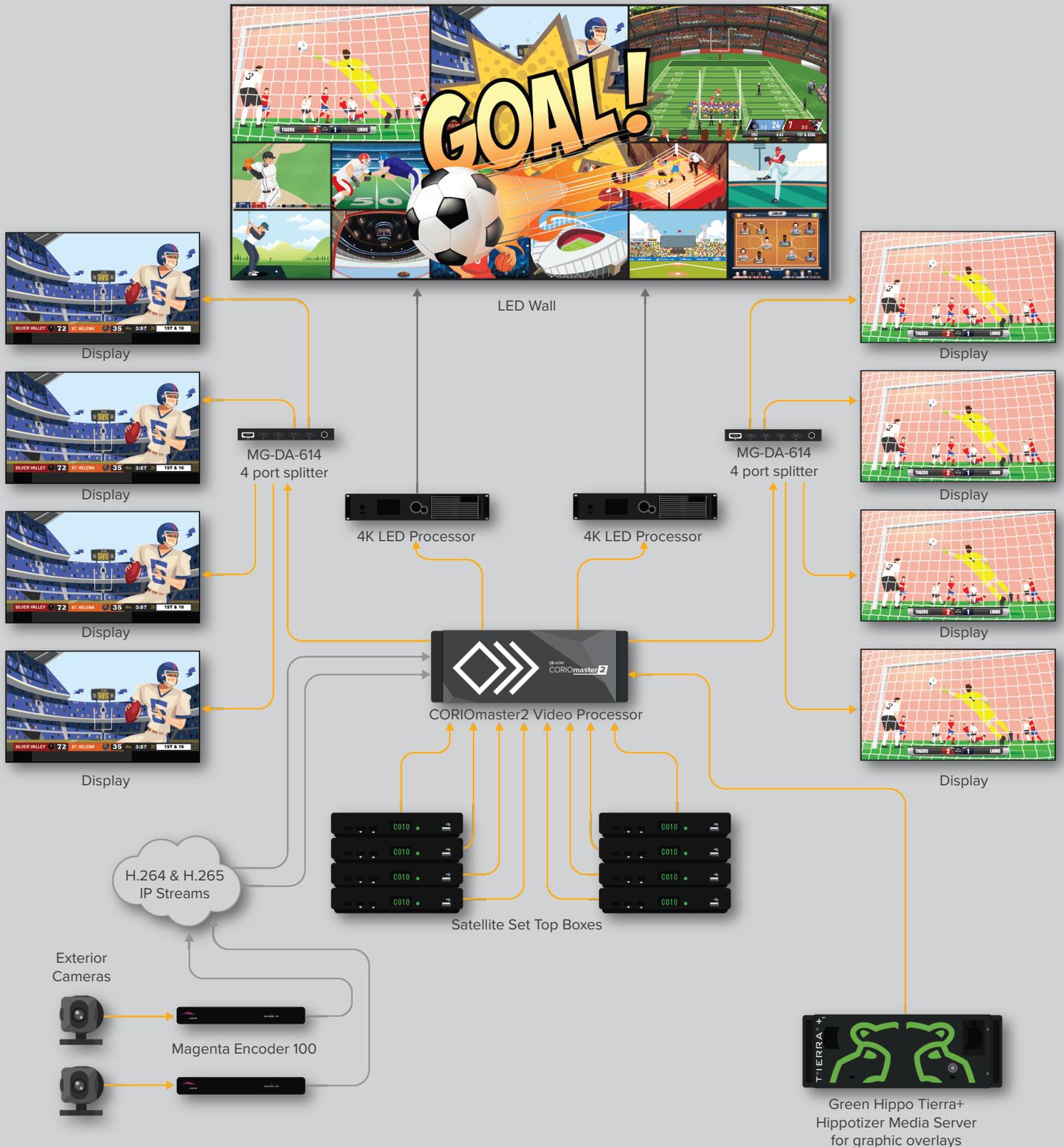
Active Optical Cables

SIMPLE TO INSTALL
COMPACT & EASY TO USE

150ft
AOC

32ft AOC

32ft AOC

CASINO SPORTSBOOK

END TO END SOLUTION

Combine Magenta extension and distribution solutions with video processors or Hippotizer Media Servers from tvONE to create compact inter-operable and proven solutions. In this Sports Betting application Magenta reliably extends signals using Active Optical Cables, before distributing the signals for viewing through a projector and side monitors through Magenta's ultra slim, distribution amplifiers.

LED Wall

Display

Display

Display

Display

MG-DA-614
4 port splitter

4K LED Processor

4K LED Processor

Display

Display

Display

Display

MG-DA-614
4 port splitter

CORIOmaster2 Video Processor

Satellite Set Top Boxes

H.264 & H.265
IP Streams

Exterior
Cameras

Magenta Encoder 100

Green Hippo Tierra+
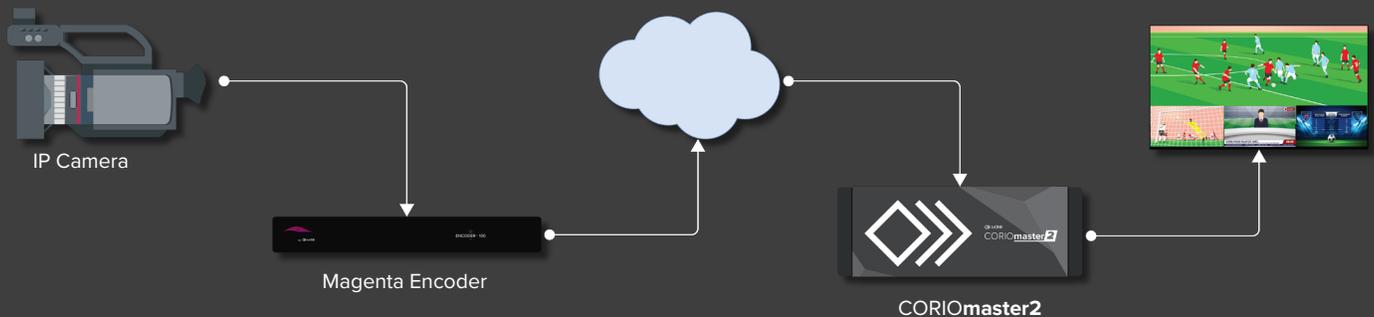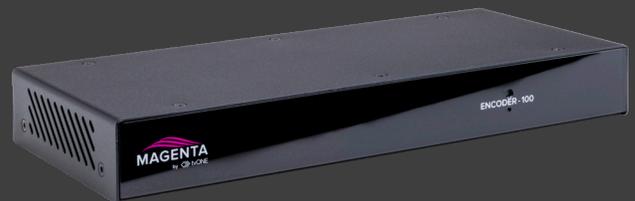Hippotizer Media Server
for graphic overlays

EASY TO USE IP WORKFLOWS

The Encoder-100 streaming media encoder allows for the streaming of high-quality video and audio from a range of sources to the streaming media and 4K playback input module of your CORIOmaster/CORIOmaster2 video processors or CORIOview multi-window processor.

MG ENCODER-100

This single channel video encoder, capable of resolutions up to 1920x1200, pairs with the CORIOmaster Streaming Media & 4K Playback module allowing traditional AV signals such as HDMI to be streamed seamlessly to a video wall. Video streams can be scaled before distribution to reduce bandwidth consumption.

For super easy set ups, CORIOgrapher software will automatically recognize your Magenta Encoder-100, even if it is on a different subnet!

IP Camera

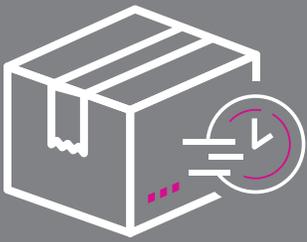Magenta Encoder

CORIO**master2**

Compatible tvONE Products:

Streaming Media Module

Module for low latency H.264 & H.265 streaming decoder with IP sources labeling and playback of video clips and stills from on-board 128Gb HDD.

This module is fully compatible with CORIOmaster2, CORIOmaster, CORIOmaster mini, CORIOmaster micro and CORIOview.

GREAT TECHNOLOGY SHOULDN'T TAKE MONTHS TO ARRIVE

tvONE can build and ship products for mission critical AV installations today.

tvONE

MAGENTA

GREEN HiPPO

INTEGRATE
Low latency video
processing & windowing

CONNECT
Signal extension
& distribution

ENGAGE
Media playback
& manipulation

tvONE

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