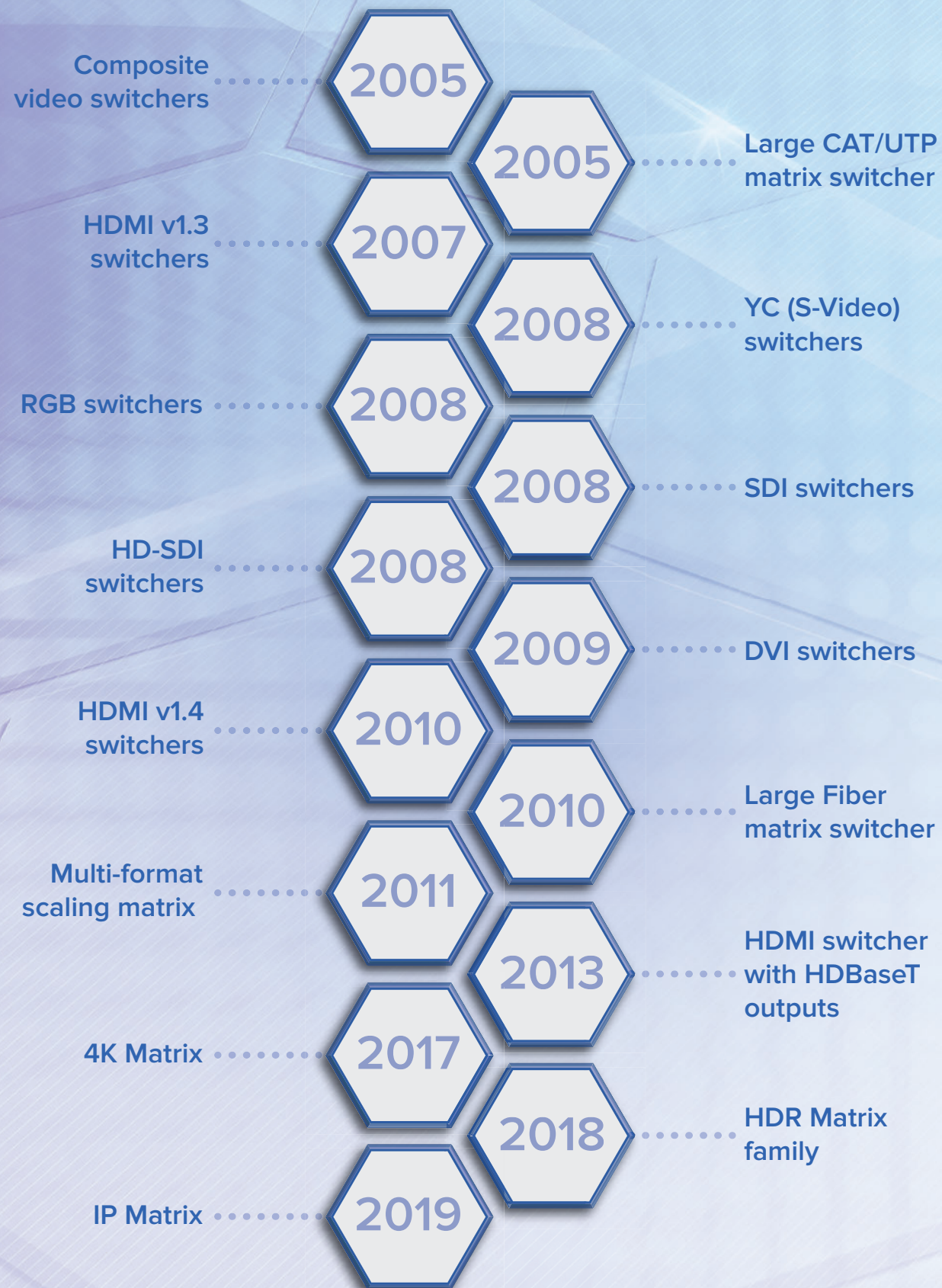# SWITCH

Best-in-class switches and matrices for sending sources to single or multiple destinations

Supporting mission-critical AV installations world-wide.
We Engineer Confidence.

tvONE®
We Engineer Confidence

tvONE switcher product development timeline

- **Composite video switchers** — 2005
- **2005** — Large CAT/UTP matrix switcher
- **HDMI v1.3 switchers** — 2007
- **2008** — YC (S-Video) switchers
- **RGB switchers** — 2008
- **2008** — SDI switchers
- **HD-SDI switchers** — 2008
- **2009** — DVI switchers
- **HDMI v1.4 switchers** — 2010
- **2010** — Large Fiber matrix switcher
- **Multi-format scaling matrix** — 2011
- **2013** — HDMI switcher with HDBaseT outputs
- **4K Matrix** — 2017
- **2018** — HDR Matrix family
- **IP Matrix** — 2019

The tvONE difference:

Are you suffering from heart-stopping "AV moments"? Then step up to tvONE's leading range of ultra-reliable switchers and matrices that feature award winning performance as standard. Choose from our range of solutions for every need and every budget. From entry level products, to advanced systems, tvONE provides easy integration of the most popular inputs and outputs, together with solutions that can expand up to thousands of end points.
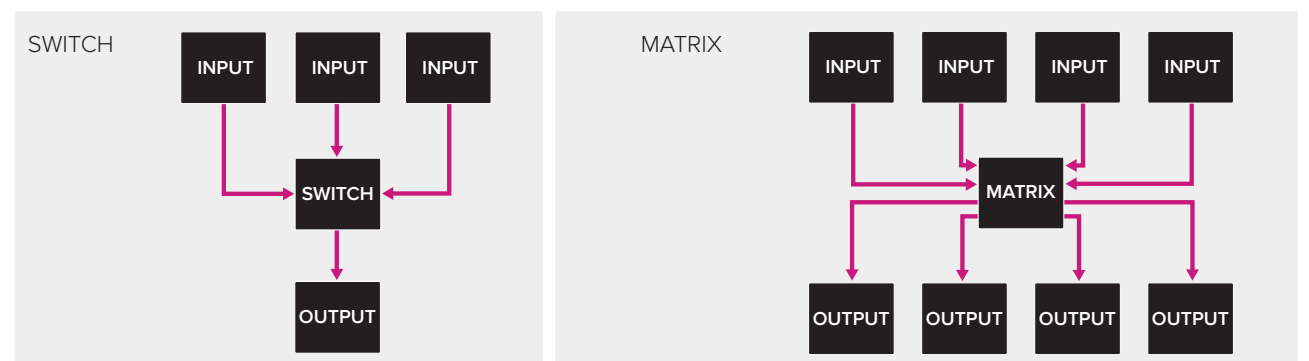
Switcher selection guide:

Experience our AV, Broadcast and IP solutions with rich feature sets including format conversion, scaling and extension.
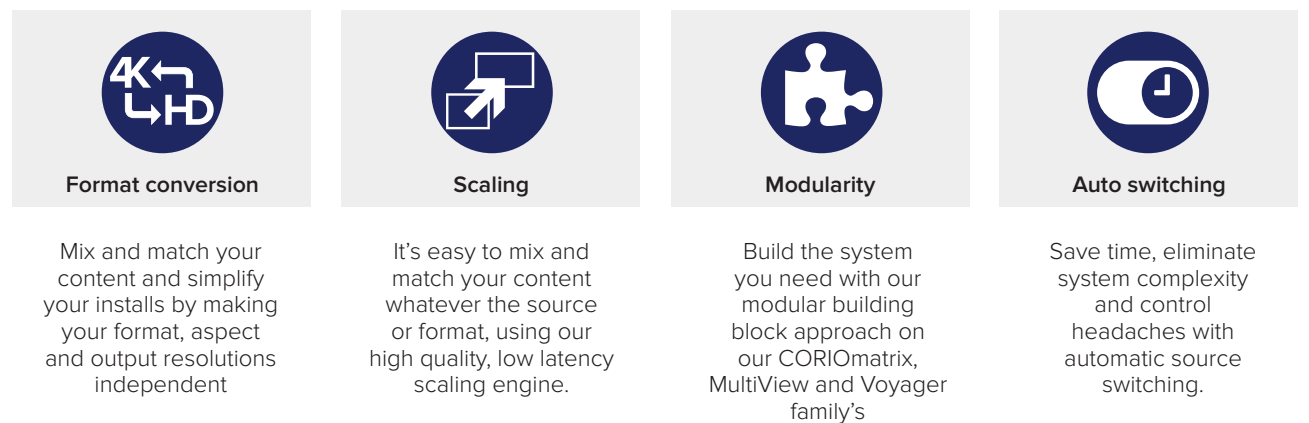
Cable type – tvONE has the widest range of input and output types. All our solutions are designed, manufactured and tested for real-world environments where interoperability and clean, synchronous switching are key while still maintaining low latency and high image quality.

HDMI up to 2.0	DVI	3G-SDI & HD-SDI	IP - H.264 & H.265	HDBaseT	FIBER	CAT/UTP

Size – tvONE solutions include switches (single output) and matrices (multiple outputs) in a variety of sizes.

SWITCH
INPUT INPUT INPUT → SWITCH → OUTPUT

MATRIX
INPUT INPUT INPUT INPUT → MATRIX → OUTPUT OUTPUT OUTPUT OUTPUT

Features – Choose from the widest range of features for the perfect installation.

Format conversion	Scaling	Modularity	Auto switching
Mix and match your content and simplify your installs by making your format, aspect and output resolutions independent	It's easy to mix and match your content whatever the source or format, using our high quality, low latency scaling engine.	Build the system you need with our modular building block approach on our CORIOmatrix, MultiView and Voyager family's	Save time, eliminate system complexity and control headaches with automatic source switching.

Control – tvONE solutions offer a range of options to allow users to easily control their matrix and switcher solutions. Choose from front panels, control software and web browsers, on screen display (OSD) and infra-red control options. You can also integrate our CORIO based solutions to popular AV control solutions simply and easily using our free to download plug-ins.

Small Switchers & Matrices - up to 8x8

Connect and present in seconds with our compact solutions with fast switching, wide format support and easy control. tvONE guarantees glitch-free switching between a variety of computer and other signal types to a single output for corporate, medical, government, hospitality and control rooms.

MX-6544
2.0 HDCP 2.2 HDR

MX-6588
2.0 HDCP 2.2 HDR

HDMI 2.0 is the new standard for switching 4K/60 video where you need life-like, deep color rendition. The MX-65xx matrix switcher series provides guaranteed HDMI 2.0 performance and allows you to switch multiple sources to multiple display devices independently or at the same time.

1T-SX-654
2.0

MX-8488
1.3 HDBT

MX-5288

A range of small switches are available in a number of fit-for-purpose designs. tvONE guarantees high-performance routing of HDMI, DVI and HDBaseT signals. Full bandwidth processing, easy EDID management and a variety of control options ensures ultra-reliable operation and peace of mind for integrators and end users.
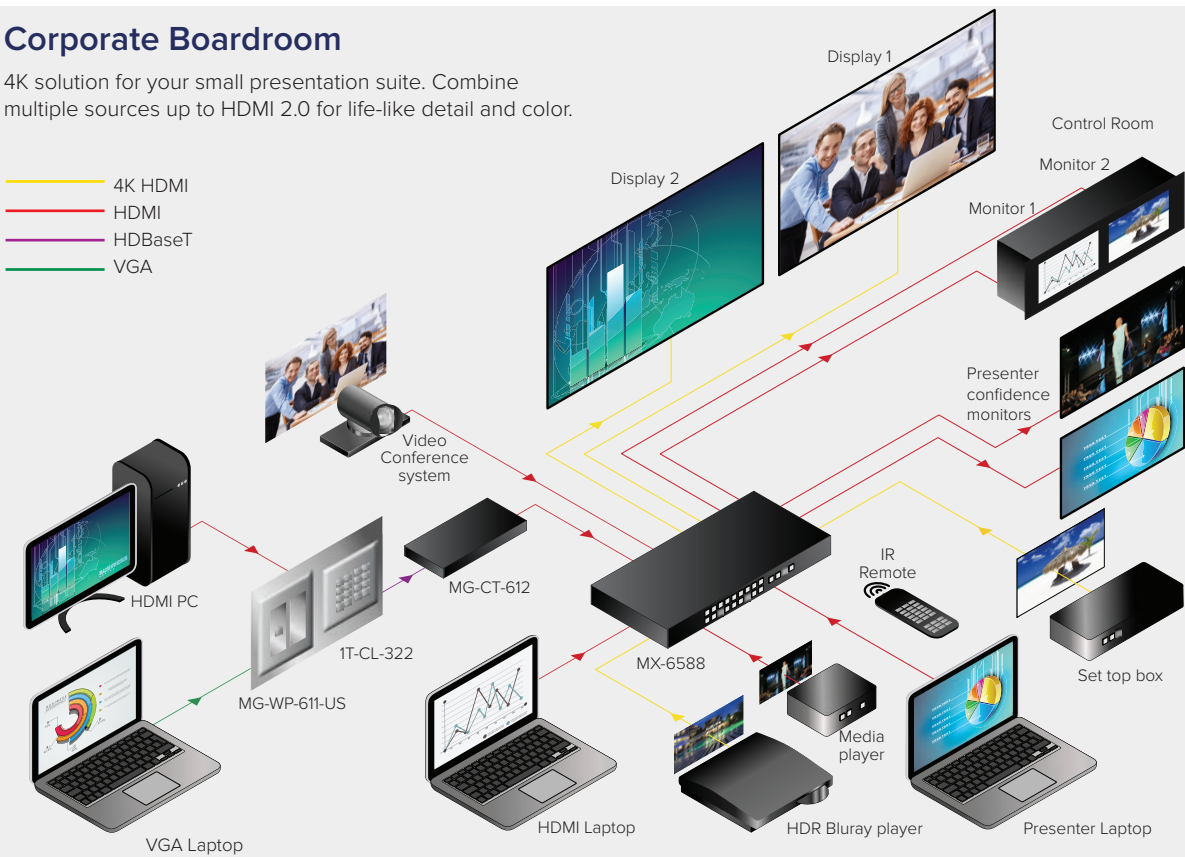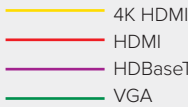
Compatible tvONE products

MG-WP-611-EU   MG-WP-611-US

MG-CT-612
Note: The MG-CT-612 provides power to the wall plate

1T-CL-322-EU

1T-CL-322-US   HD-ONE-DX

Small matrix application

Corporate Boardroom
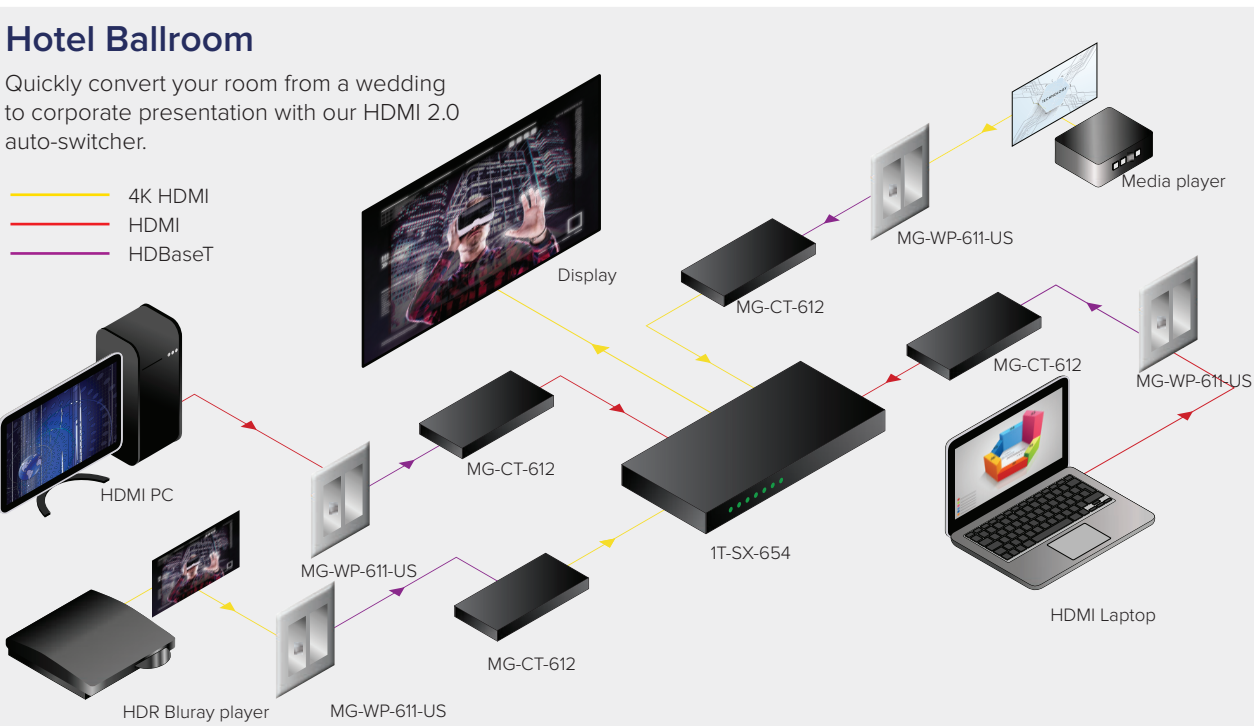
4K solution for your small presentation suite. Combine multiple sources up to HDMI 2.0 for life-like detail and color.

— 4K HDMI
— HDMI
— HDBaseT
— VGA

Display 1
Display 2
Control Room
Monitor 2
Monitor 1
Presenter confidence monitors
IR Remote
Video Conference system
HDMI PC
MG-CT-612
1T-CL-322
MX-6588
Set top box
MG-WP-611-US
Media player
VGA Laptop
HDMI Laptop
HDR Bluray player
Presenter Laptop

Small switch application

Hotel Ballroom

Quickly convert your room from a wedding to corporate presentation with our HDMI 2.0 auto-switcher.

— 4K HDMI
— HDMI
— HDBaseT

Display
Media player
MG-WP-611-US
MG-CT-612
MG-CT-612
MG-WP-611-US
HDMI PC
MG-CT-612
1T-SX-654
HDMI Laptop
MG-WP-611-US
MG-CT-612
HDR Bluray player   MG-WP-611-US

The EU assembly in Belgium counts on many CORIOmatrices signal conversion abilities, every day

Medium Matrices - up to 60 inputs or 24 outputs

The CORIO**matrix** series is the ultimate 4K modular AV matrix with scaling, format conversion and extension capabilities built in as standard. The versatility and adaptability provided by the CORIOmatrix modular design helps integrators overcome the wide-ranging challenges of BYOD.
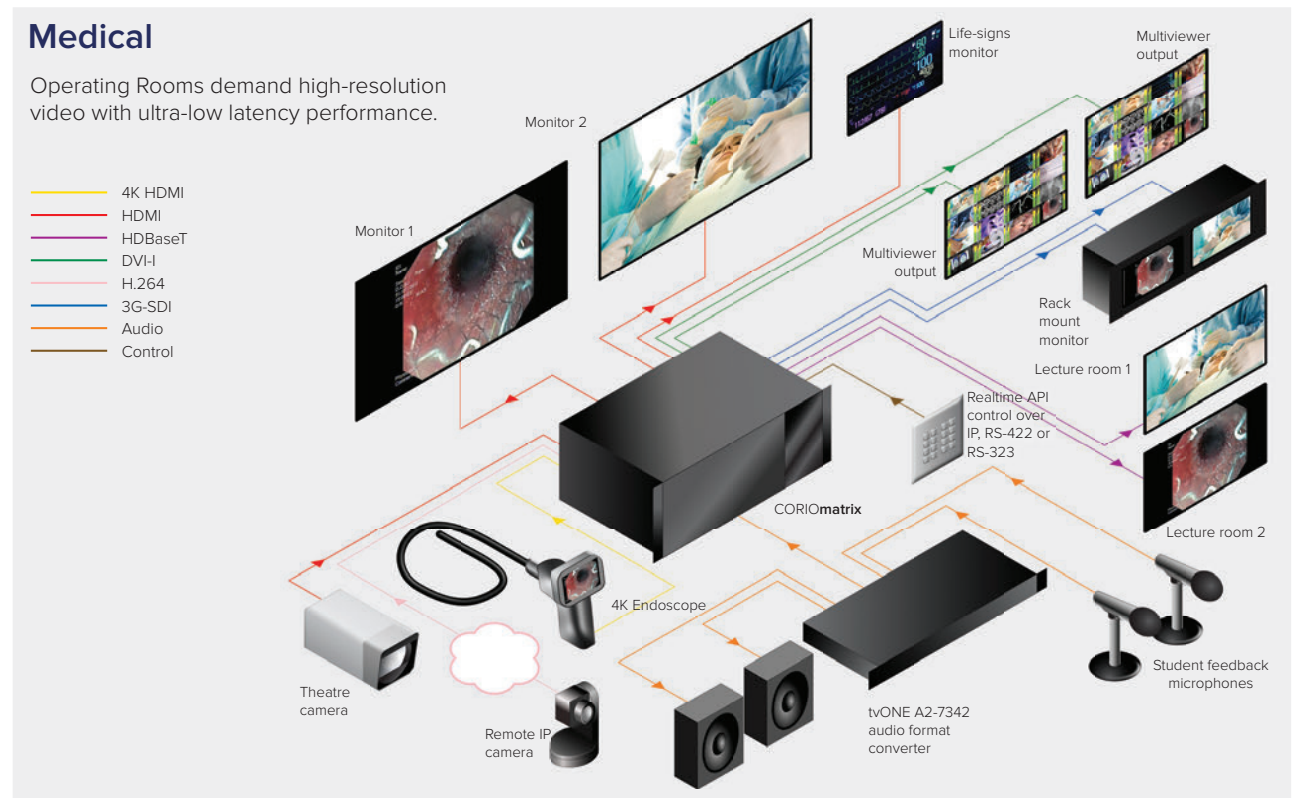
INPUT MODULES

COMING SOON
Streaming media and 4K playback

NEW
Dual 4K HDMI

NEW
Quad 2K HDMI

NEW
Dual Long Reach 1080p HDBaseT

Dual DVI Universal

Dual 3G-SDI broadcast

NEW
Quad 3G-SDI broadcast

HD-SDI broadcast

Audio routing

EASY CONTROL

3rd party control   CORIO**matrix** web UI

External audio analog or digital

OUTPUT MODULES

4K HDMI Scaled   NEW

Dual DVI-U Scaled

Dual HDBaseT Scaled

Dual 3G-SDI

Dual DVI Monitoring

Multiviewer monitoring

Modular

Scaling

Format conversion

IP

Compatible tvONE products

MG-WP-611-EU   MG-WP-611-US   Encoder-100   1T-CL-322-US   1T-CL-322-EU   HD-ONE-DX and DX500 series

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Installation examples:

Medical

Operating Rooms demand high-resolution video with ultra-low latency performance.

- 4K HDMI
- HDMI
- HDBaseT
- DVI-I
- H.264
- 3G-SDI
- Audio
- Control

Life-signs monitor
Multiviewer output
Monitor 2
Monitor 1
Multiviewer output
Rack mount monitor
Lecture room 1
Realtime API control over IP, RS-422 or RS-323
CORIO**matrix**
Lecture room 2
4K Endoscope
Student feedback microphones
Theatre camera
Remote IP camera
tvONE A2-7342 audio format converter

Custom and OEM Products
If your company has a unique application or requires somewhat different features than are available in our standard scan converter or video scaler models, we are experienced in providing custom products. tvONE has developed custom solutions for a large number of clients, for both high and modest quantity requirements. Past projects have ranged from providing minor software modifications to an existing model to designing and manufacturing completely new products for the mass market.

Events

Boost your performance or presentation. Multi-format inputs, low latency and LED wall compatibility will captivate your audience

- 4K HDMI
- HDMI
- HDBaseT
- DVI-I
- H.264
- 3G-SDI
- Audio

LED wall
Engineering Multiviewer output
Laptop 2
Stage monitor
Laptop 1
Camera 3
Camera 2
Camera 1
Remote screen 1
CORIO**matrix**
Director's Multiviewer output
Remote screen 2
Remote IP camera
tvONE A2-7342 audio format converter
Laptop 4
Laptop 3

Casino's all over the world have been relying on the Magenta Mondo Matrix to provide long distance, matriced video for years

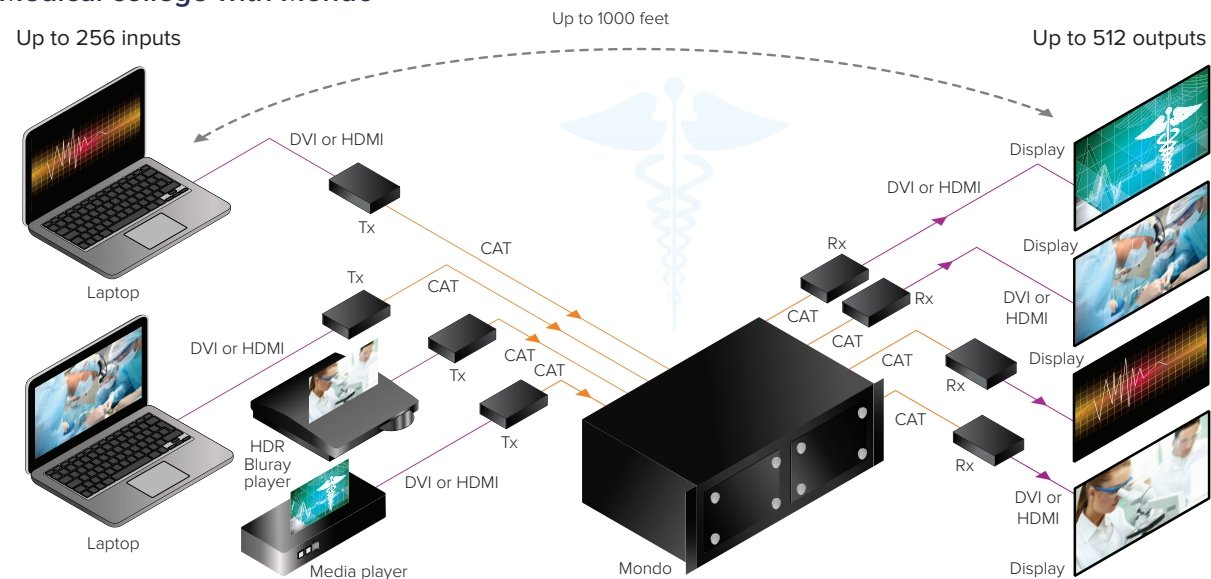New York Stock Exchange relies on Voyager Fiber 24/7

Large CAT Matrices – up to 256x512

The Mondo is the benchmark for AV switching over UTP and is available in many configurations ranging from 16x16 up to 256x512. It's the proven core of many mission critical installation world-wide that deliver flexible switching and long-distance extension of video, audio and control signals.

Simply add MultiView end points for an ultra-flexible building block approach and easily adapt to any installation footprint with guaranteed performance up to 1200 feet (365m).

Medical college with Mondo

Up to 256 inputs

Up to 1000 feet

Up to 512 outputs

DVI or HDMI

Tx

Laptop

DVI or HDMI

Tx

CAT

CAT

CAT

CAT

Tx

HDR Bluray player

DVI or HDMI

Tx

Media player

Mondo

CAT

CAT

CAT

CAT

CAT

Rx

Rx

Rx

Rx

DVI or HDMI

Display

DVI or HDMI

Display

Display

DVI or HDMI

Display

Large Fiber Matrices – 1000+ ports

Voyager is a high-performance system using fiber for short or long-haul transport of uncompressed 1080p/60 video. Options include single-mode (up to 18.75 miles / 30 Kilometers) and multi-mode (up to 6,600 feet / 2 Kilometers).

The VG-Matrix series is the beating heart of large deployments of up to 2,000 end points. The modular and scalable full cross point matrix switching platform is field configurable in increments of eight inputs and/or outputs up to 160x160 and beyond.

Simply add interoperable modular or compact form end points to your matrix for a limitless variety of end-to-end configurations for the distribution of uncompressed video, audio and RS-232 control signals.

Simplex I/O card

Duplex I/O card

Compatible MultiView products

Octet

Morph-it

MultiView UTP Tx/Rx

MultiView DVI Tx/Rx

MultiView 9D

Compatible Voyager products

Voyager VG-RX4

Voyager VG-TX2

Compact Form End Points

USB 2.0 Extender set

Small HDMI 2.0 Switchers & Matrices - up to 8x8

Model	Size	Inputs					Outputs					Resolution				Advanced Features				
		HDMI	DVI	3G SDI	Analog	IP	HDMI	DVI	3G SDI	Analog	HDBaseT	SD	1080p	4K	Custom	Scaling	Fast Switching	Signal conversion	Audio	Additional Features***
MX-6544	4x4	✓					✓							✓					✓	
MX-6584	8x4	✓					✓							✓					✓	
MX-6588	8x8	✓					✓							✓					✓	
1T-SX-654	4x1	✓					✓							✓					✓	

Other Small Switchers & Matrices - up to 8x8

Model	Size	Inputs					Outputs					Resolution				Advanced Features				
		HDMI	DVI	3G SDI	Analog	IP	HDMI	DVI	3G SDI	Analog	HDBaseT	SD	1080p	4K	Custom	Scaling	Fast Switching	Signal conversion	Audio	Additional Features***
MX-8488	8x8	✓									✓		✓							
MX-5288	8x8		✓					✓					✓							
1T-MX-6344	4x4	✓					✓						✓							
1T-SX-644	4x1	✓					✓						✓					✓		
1T-SX-632	2x1	✓					✓						✓							
1T-C2-750	2x1		✓					✓					✓			✓	✓	✓		✓
MX-3141PCA	4x1				✓					✓		✓	✓							
MX-3141CSVA	4x1				✓					✓		✓							✓	
AVT-6071	8x1	✓			✓		✓					✓	✓						✓	
C2-8000	12x2		✓					✓					✓		✓	✓	✓	✓	✓	✓
C2-2855	6x1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓

Medium Matrices - up to 60 inputs or 24 outputs

Model	Size	Inputs					Outputs					Resolution				Advanced Features				
		HDMI	DVI	3G SDI	Analog	IP	HDMI	DVI	3G SDI	Analog	HDBaseT	SD	1080p	4K	Custom	Scaling	Fast Switching	Signal conversion	Audio	Additional Features***
CORIOmatrix	60*x24*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CORIOmatrix mini	18*x10*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Large CAT Matrices - up to 265x512

Model	Size	Inputs					Outputs					Resolution				Advanced Features				
		HDMI	DVI	3G SDI	Analog	IP	HDMI	DVI	3G SDI	Analog	HDBaseT	SD	1080p	4K	Custom	Scaling	Fast Switching	Signal conversion	Audio	Additional Features***
Mondo	256x512		✓		✓			✓		✓		✓	✓					✓		

Large Fiber Matrices - 1,000+ ports

Model	Size	Inputs					Outputs					Resolution				Advanced Features				
		HDMI	DVI	3G SDI	Analog	IP	HDMI	DVI	3G SDI	Analog	HDBaseT	SD	1080p	4K	Custom	Scaling	Fast Switching	Signal conversion	Audio	Additional Features***
Voyager matrix	500x500**	✓			✓		✓					✓	✓			✓	✓	✓		

* Modular matrices, this is max inputs or max outputs
**Voyager Matrix does not require equal number of inputs and outputs
*** Advanced features include windowing, logo insertion,

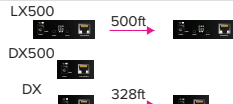| EXTEND	➡	SWITCH	➡	DISTRIBUTE

HDMI 2.0 and DisplayPort 1.4 extension - up to 328ft

**Active Optical Cable Series
32- 328 feet**

MG-AOC-66x 4K60 HDMI 2.0 extension
MG-AOC-88x 8K60 DisplayPort 1.4 extension

HDMI 2.0 Matrix Switchers

MX-6588 4K60 8x8 HDMI 2.0 Matrix

MX-6544 4K60 4x4 HDMI 2.0 Matrix

Ultra-compact HDMI 2.0 Switcher

1T-SX-654 4K60 4x1 HDMI 2.0 Switcher

HDMI 2.0 Distribution

1T-DA-682 4K60 1x2 Splitter

1T-DA-684 4K60 1x4 Distribution Amplifier

1T-DA-688 4K60 1x8 Distribution Amplifier

Ultra-slim form factor

MG-DA-612 4K60 1x2 Splitter

MG-DA-614 4K60 1x4 Distribution Amplifier

MG-DA-618 4K60 1x8 Distribution Amplifier

Point-to-point HDBaseT extension up to 500ft

LX500

500ft

DX500

DX

328ft

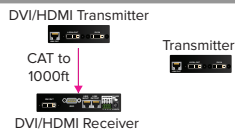## 4K Universal Scaling Matrix Router

CORIOmatrix C3-340

HDMI & DVI Distribution

1T-DA-672 1x2 HDMI Splitter

1T-DA-674 1x4 HDMI Distribution Amplifier

1T-DA-678 1x8 HDMI Distribution Amplifier

1T-DA-554 1x4 DVI Distribution Amplifier
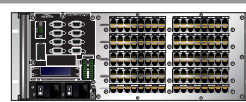
1T-DA-552 1x2 DVI Splitter

HDBaseT wallplate and compact receiver

MG-WP-611: HDBaseT wallplate with HDMI, VGA and audio inputs

MG-CT-612: Compact form HDBaseT Receiver

4K Universal Scaling Matrix Router

CORIOmatrix mini C3-310

Magenta MultiView
Ultra-robust CAT6 matrix switching to 512 end points and distribution from 1 source to 729 displays

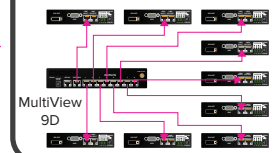## Point-to-Point CAT Extension - up to 1000ft

DVI/HDMI Transmitter

Transmitter

CAT to 1000ft

DVI/HDMI Receiver

CAT Matrix Switcher
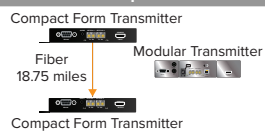
Mondo Matrices up to 256 x 512

CAT Distribution

MultiView 9D

Magenta Voyager
Dependable fiber distribution and matrix switching to 2000+ end points
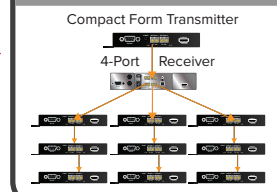
Fiber point-to-point extension - up to 18.75 miles

Compact Form Transmitter

Fiber 18.75 miles

Modular Transmitter

Compact Form Transmitter

Fiber Optic Matrix Switcher

Fiber Matrices up to 320 ports
Also available in a 48 port version.

Fiber Optic Distribution

Compact Form Transmitter

4-Port   Receiver

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