Magenta Pathfinder

KVM over IP

OVERVIEW

The Magenta Pathfinder provides a scalable, zero latency, KVM (Keyboard, Video, Mouse & USB 2.0) extension and switching solution. Capable of up to 2,000 high-quality endpoints in a single system, it's the perfect solution for mission critical control and collaboration including Medical, Broadcast and Control room operations.

Magenta Pathfinder offers plug-and-play setup with no configuration of endpoints required, nor any costly user licensing fees. Pathfinder can extend and mix 4K and HD sources via CAT or Fiber cable to create a flexible wide-reaching KVM matrixing solution.

Advanced features include the ability to monitor and control up to 4 PC's from a single 4K monitor; while using only a single keyboard and mouse to control the PC of your choice.

Magenta has always engineered confidence; you can now expect this on your network. Extend, Switch and Distribute with Magenta Pathfinder KVM.
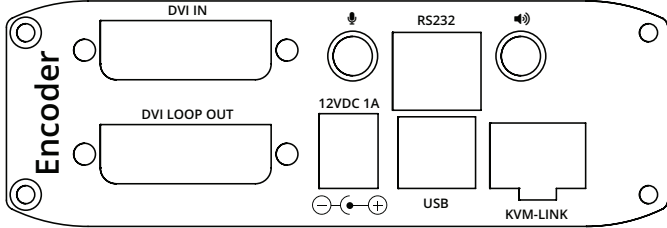
KEY FEATURES

- KVM matrixing solution with up to 2,000 endpoints
- Up to 4K60 video
- Use **Cross-Click** to seamlessly control PC's across multiple displays
- Mix and match HD and 4K endpoints
- Zero latency performance guaranteed
- Point-to-point extension up to 12miles (20km)
- Mix copper and fiber for maximum system design flexibility
- Plug and Play installation over IP
- **WindowView** lets you Monitor up to 4PC's from a single 4K monitor, keyboard and mouse
- Extend PC desktop to dual displays over single cable
- Local monitor loop out
- Update firmware remotely
- Transparent USB 2.0

ORDERING INFORMATION

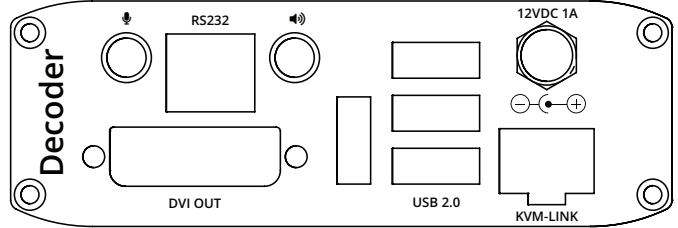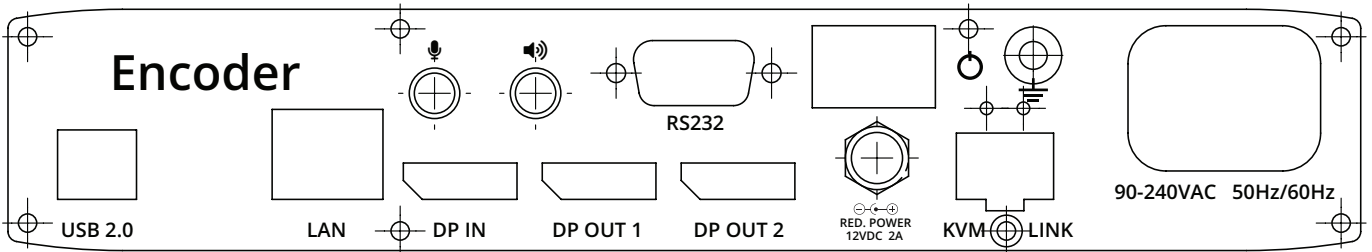|	
MG-KVM-531	DVI KVM Encoder, supports up to 1920x1200, requires SFP module
MG-KVM-532	DVI KVM Decoder, supports up to 1920x1200, requires SFP module
MG-KVM-831	DP1.2 KVM Encoder, supports up to 4096x2160, requires SFP module
MG-KVM-832	DP1.2 KVM Decoder, supports up to 4096x2160, requires SFP module
MG-KVM-5SM	Singlemode fiber SFP for MG-KVM-53x series (20km)
MG-KVM-8SM	Singlemode fiber SFP for MG-KVM-83x series (10km)
MG-KVM-5CPR	RJ45 1G SFP for MG-KVM-53x series (30m)
MG-KVM-8CPR	RJ45 10G SFP for MG-KVM-83x series (30m)
MG-KVM-5MM	Multimode fiber SFP for MG-KVM-53x series
MG-KVM-8MM	Multimode fiber SFP for MG-KVM-83x series
TBD	Replacement PSU for the MG-KVM-5xx

TECHNICAL SPECIFICATIONS

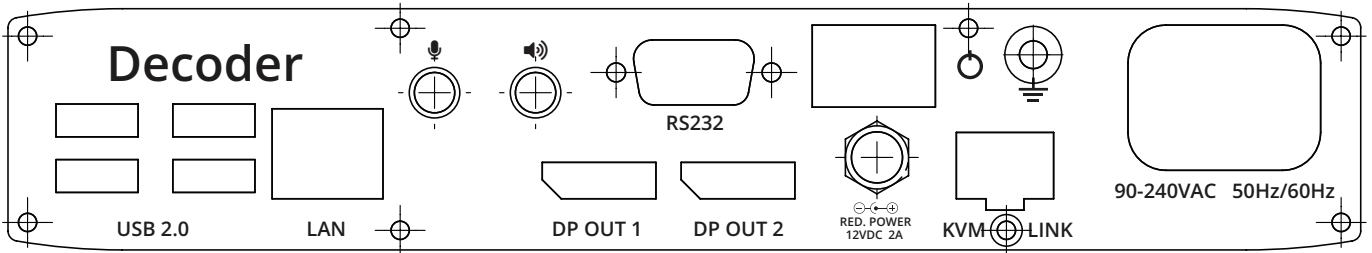|	MG-KVM-500 Series		MG-KVM-800 Series	
	Encoder	**Decoder**	**Encoder**	**Decoder**
Interfaces	1x DVI-I in 1x DVI-I (loop out) 1x USB-B 2x 3.5mm Analog Audio (Line In/out) 1x RS232 via RJ11 1x KVM link via SFP+ 1x DC power port	1x DVI-D out 4x USB-A 2x 3.5mm Analog Audio (Line In/out) 1x RS232 via RJ11 1x KVM link via SFP+ 1x Locking DC power port	1x DP 1.2 in 2x DP 1.2 out 1x USB-B 2x 3.5mm Analog Audio (Line In/out) 1x D-Sub9 (female) 1x 1GBit LAN via RJ45 1 x KVM link via SFP+ 1x DC power port 1x IEC AC power port	2x DP 1.2 out 4x USB-A 2x 3.5mm Analog Audio (Line In/out) 1x D-Sub9 (male) 1x 1GBit LAN via RJ45 1 x KVM link via SFP+ 1x DC power port 1x IEC AC power port
Video	up to 1920x1200@60Hz 24bit	up to 1920x1200@60Hz 24bit	up to 4096 x 2160 @ 60Hz 4:4:4 24bit	up to 4096 x 2160 @ 60Hz 4:4:4 24bit
Audio	Analog 16bit, 44kHz, 2ch	Analog 16bit, 44kHz, 2ch	Analog; 16bit, 44kHz, 2ch Digital (embedded); 16bit, 44kHz, 2ch	Analog; 16bit, 44kHz, 2ch Digital (embedded); 16bit, 44kHz, 2ch
USB	USB 2.0 transparent max. 480 Mbit/s mass storage and camera supported	USB 2.0 transparent max. 480 Mbit/s mass storage and camera supported	USB 2.0 transparent max. 480 Mbit/s mass storage and camera supported	USB 2.0 transparent max. 480 Mbit/s mass storage and camera supported
RS232	Transparent max. 230.400 bps TxD, RxD, DTR, CTS,	Transparent max. 230.400 bps TxD, RxD, DTR, CTS,	Transparent max. 230.400 bps TxD, RxD, DTR, CTS,	Transparent max. 230.400 bps TxD, RxD, DTR, CTS,
HDCP	1.4	1.4	not supported	not supported
KVMLink data rate	1Gbps	1Gbps	10Gbps	10Gbps
Max distance	328ft (30m) via RJ45 1640ft (500m) via Mulitmode Fiber 12miles (20km) via Singlemode Fiber	328ft (30m) via RJ45 1640ft (500m) via Mulitmode Fiber 12miles (20km) via Singlemode Fiber	100ft (30m) via RJ45 1000ft (300m) via Mulitmode fiber 6.2miles (10km) via Singlemode fiber	100ft (30m) via RJ45 1000ft (300m) via Mulitmode fiber 6.2miles (10km) via Singlemode fiber
Enclosure WxHxD	4.3x1.57x5.2" (110x40x132.5mm)	4.3x1.6x5.2" (110x40x132.5mm)	8.6x1.65x5.2" (218x42x132.5mm)	8.6x1.65x5.2" (218x42x132.5mm)
Weight	0.6lbs (302g)	0.6lbs (291g)	1.5lbs (676g)	1.6lbs (707g)
Mounting	Built in surface mount Rack mount kit available	Built in surface mount Rack mount kit available	Built in surface mount Rack mount kit available	Built in surface mount Rack mount kit available
Power	12V DC 1A	12V DC 1A	internal AC power supply 90-240V/60-50Hz	internal AC power supply 90-240V/60-50Hz
Consumption	8W	8W without USB devices, 10W Max	15W	15W (without USB devices), 18W Max
Redundant Power	n/a	n/a	12 VDC 3A (optional)	12 VDC 3A (optional)
Operation environment	0 to 45°C /32 to 113°F) < 80%, non condensing	0 to 45°C /32 to 113°F) < 80%, non condensing	0 to 45°C /32 to 113°F) < 80%, non condensing	0 to 45°C /32 to 113°F) < 80%, non condensing
Storage environment	-25 to 80°C (-13 to 176°F) < 80%, non condensing	-25 to 80°C (-13 to 176 °F) < 80%, non condensing	-25 to 80°C (-13 to 176 °F) < 80%, non condensing	-25 to 80°C (-13 to 176°F) < 80%, non condensing
Cooling	free air convection	free air convection	free air convection	free air convection
MTBF	82,820 hours	82,820 hours	82,820 hours	82,820 hours
Compliance	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Network Switch Requirements	IGMP Snooping V2 or higher. Gateway bandwidth of 1Gbit on the connected port		IGMP Snooping V2 or higher. Gateway bandwidth of 10Gbit on the connected port	
Warranty	5 years	5 years	5 years	5 years

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PATHFINDER

STATUS	LINK	VIDEO
RED	X	X
ORANGE	✓	X
GREEN	✓	✓

Encoder

DVI IN

DVI LOOP OUT

12VDC 1A

RS232

USB

KVM-LINK

MG-KVM-531

Decoder

RS232

12VDC 1A

DVI OUT

USB 2.0

KVM-LINK

MG-KVM-532

PATHFINDER

STATUS	LINK	VIDEO
RED	X	X
ORANGE	✓	X
GREEN	✓	✓

Encoder

USB 2.0

LAN

DP IN

DP OUT 1

DP OUT 2

RS232

RED. POWER
12VDC 2A

KVM-LINK

90-240VAC 50Hz/60Hz

MG-KVM-831

Decoder

USB 2.0

LAN

DP OUT 1

DP OUT 2

RS232

RED. POWER
12VDC 2A

KVM-LINK

90-240VAC 50Hz/60Hz

MG-KVM-832