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Smart Digital Solutions VMX-16x16

Flexible and comprehensive Video Wall processor for Multi-format Video



The **VMX-16x16** is a professional Video Wall Processing Matrix, capable of selecting between 36 different devices to 36 displays. Seamless switching together with output video scaling provides a professional image selection on any display configuration.

Seamlessly route 16 high resolution video sources to create a Video Wall for up to 16 displays for mixed formats including HDMI, DVI, HDBaseT, Fibre, 3G-SDI & analogue

The **VMX-16x16** chassis offers an unprecedented level of switching, distribution and Video Wall Processing functionality for high resolution HDMI, DVI, HDBaseT and 3G-SDI. Legacy products are also catered for with analogue input cards capable of accepting RGBHV, YPrPb, Y/C and PAL/NTSC all of which can be up-scaled to 1080p resolution.

By combining Seamless video switching and processing with modular input and output modules Smart-e sets a new benchmark for complete integrated AV solutions, all of which can be controlled easily via either IP, RS232 and keypad.

Fully HDCP compliant and incorporating enhanced EDID management the matrix is ideal for many multi-channel signal switching and distribution for Commercial, Educational and Residential solutions. Compact 3U 19" rack mounting chassis makes for ease of installation with optional upgrade to SmartiP (extra 1U). www.smart-e.co.uk

The Smart-e VMX-16x16 features

- Multiple output Video Wall Processing
- HDMI, DVI, HDBaseT, Fibre, VGA & SDI
- HDCP & HDMI 1.4 compliant
- Combined Data rate of 12 Gbits/s
- HDTV 1080p 60Hz 36bpp resolutions
- PC resolutions up to 1920x1200@60 Hz
- Seamless switching
- Enhanced EDID management
- Supports Deep Colour (10,12&16 bit)
- Modular construction— 4 port cards
- Individual output scaling
- TCP/IP control
- Dual port RS232 control
- Inline power for receivers (POH)
- Compact 3U 19" rack mounting
- 3 year warranty
- Sizes ranges from 8x8 to 144x144
- Fast switching





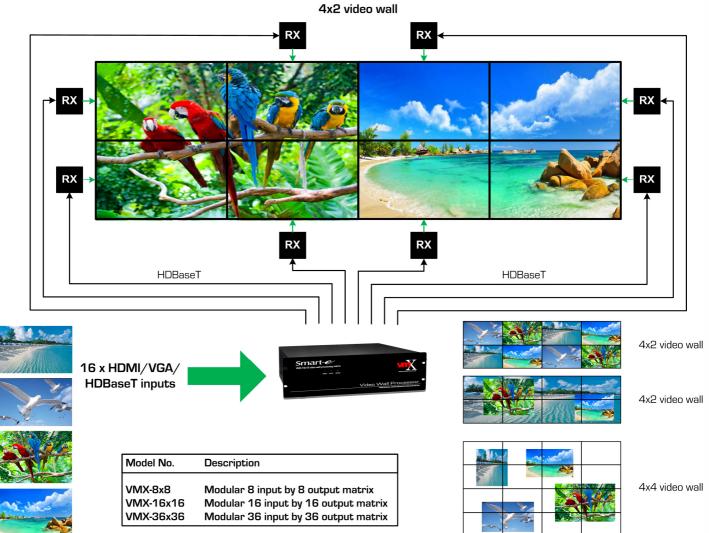
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Control

| Video | | Audio & Power | |
|----------------------------------|--|-----------------|--|
| Signal Types | HDMI, DVI, VGA, HDBaseT, 3G-SDI | Турез | Embedded audio |
| Formats | 1080p @60Hz with 10 & 12 bit Deep Colour, 3D, 4K, 2K & DVI. HDCP compliant, PC up to WUXGA,. Analogue RGBHV, YPrPb, Y/C, PAL or NTSC | Digital Formats | Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS- HD Master Audio™ |
| Content Protection | HDCP V1.3 | Voltage | 110-240 AC 50/60 Hz |
| Connector | HDMI Type A, RJ45, HD15, BNC | Connector | IEC |
| Cable Types | CAT 5e, CAT 6/6e, CAT 7, STP, FTP | Fuse rating | 1 AT |
| TV resolutions PC resolutions | 480, 576, 720, 1080 p & l, 2K 4K 640x480 through to 1920x1200 | Power | 100W |

Dimensions

| Height | 3U | IP | TCP/IP |
|--------|-------------------|-----------------|---------------------------|
| Width | 19" rack mounting | IR signal | 30-50Hz |
| Depth | 354mm | RS232 | 9600 baud: 8 data.1 S, OP |
| Weight | 7.5Kg | RS232 connector | Sub-miniature D9 socket |

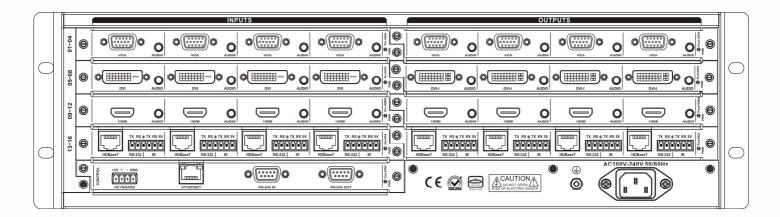




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Panel drawings









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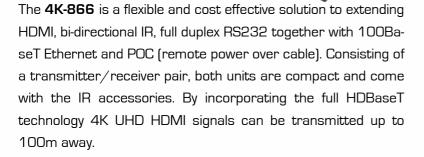
| Input cards | Output cards | | |
|--|--|--|--|
| VMX-IP4-HDMI | VMX-OP4-HDMI | | |
| | | | |
| Provides 4x independent HDMI [Type-A] inputs HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol Supports EDID editing function Maximum input resolution: 1920x1200p @ 60Hz 24bit,1080p @ 60Hz 36bit | Provides 4x independent HDMI [Type-A] outputs HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol Maximum output resolution: HDPC: 1920x1200p @ 60Hz 24bit HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60) | | |
| VMX-RX4-HDBT | VMX-TX4-HDBT | | |
| | | | |
| Provides 4x independent HDBaseT inputs Compatible with HDBaseT protocol Supports EDID editing function Maximum input resolution: 1920x1200p @ 60Hz 24bit, 1080p @ 60Hz 36bit | Provides 4x independent HDBaseT outputs Compatible with HDBaseT protocol Maximum output resolution: HDPC: 1920x1200p @ 60Hz 24bit HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60) | | |
| VMX-RX4-FB | VMX-TX4-FB | | |
| | | | |
| Provides 4x independent SC optical fibre inputs Multimode 850nm <300m Supports EDID editing function Maximum input resolution: 1920x1200p @ 60Hz 24bit, 1080p @ 60Hz 36bit | Provides 4x independent SC optical fibre outputs Multimode 850nm <300m Maximum output resolution: HDPC: 1920x1200p @ 60Hz 24bit HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60) | | |
| VMX-IP4-DVI | VMX-OP4-DVI | | |
| | | | |
| Provides 4x independent DVI inputs HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol Supports EDID editing function Maximum input resolution: 1920x1200p @ 60Hz 24bit,1080p @ 60Hz 36bit | Provides 4x independent DVI outputs HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol Maximum output resolution: HDPC: 1920x1200p @ 60Hz 24bit HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60) | | |
| VMX-IP4-VGA | | | |
| | | | |
| Provides 4x independent Analogue [HD15] inputs VGA/ RGBHV, YPbPr, Y/C S-video, Composite-video [using adapter cable] Maximum input resolution: 1920x1200p @ 60Hz 24bit, 1080p @ 60Hz 36bit Digitises and up-scales input resolution ≤1920x1080p @ 60Hz | | | |



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4Konnect 4K-866

Flexible and comprehensive HDMI extender solution using Cat 6-8 cable



Distribute high resolution UHD HDMI video together with IR, RS232 and 100BaseT Ethernet over a single CAT 6 screened twisted pair cable up to 100m

The **4K-866** is a HDBaseT transmitter/receiver pair capable of transmitting UHD HDMI signals up to 4K UHD resolutions. Implementing the complete **5-Play** of the HDBaseT specification the extender pairs also provides the pass through of wide band bi-directional InfraRed signals, full duplex RS232 up to 115Kbaud and 100BaseT Ethernet connectivity. Whilst POC power (24V) can be sent by either the TX or RX through the Cat 6 cable to provide power to the remote end. All that is required is a single Cat6 cable connection to provide all these features.

The **4K-RX866** or **TX866** can connect to any other product in the **4Konnect** range as an extender or into or out of a matrix.

> The 4K range from Smart-e is a family of digital extenders and matrices using standard CAT 6-8 STP/FTP cable to transmit 4K resolution signals over long distances





The Smart-e 4K-866 features

- Easy to install, inexpensive CAT 6-8 cable
- Outputs reach up to 100m
- Support HDMI up to 297 MHz TDMS clock
- HDCP/EDID/DDC transparent link
- HDMI resolutions 4K, 2K &1080p
- HDCP 2.2 compatible
- Full duplex RS232 passthrough
- Bi-directional IR pass through
- 100BaseT Ethernet pass through
- 1 x CAT 6-8 STP/FTP cables
- Supplies 24V remote power (POC) to either end
- Uses HDBaseT technology
- Status LEDs
- Compact TX/RX unit—25mm high
- Secure DC connection





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| Video | | Audio | |
|----------------------------------|---|-------------------|--|
| Signal Types | HDMI, DVI, DisplayPort Multimode | Types | Embedded audio in HDMI |
| Formats | HDMI w/Deep Color 3D, 4K, 2K | Digital Formats | Dolby Digital® Plus Dolby® TrueHD DTS-HD High Res DTS-HD Master Audio™, up to 8chPCM |
| Content Protection | HDCP V2.2 transparent | | |
| Connector | HDMI Type A Female | | |
| Cable Types | CAT 5e, CAT 6/6e, CAT 7, STP, FTP | | |
| TV resolutions PC resolutions | 480, 576, 720, 1080 p & l, 4K, 2K 640x480 through to 1920x1200 | Digital Connector | HDMI |

| Dimensions | | Power | |
|--------------------|-------------|-----------------|--------------------------|
| Height | 25mm | Voltage | 24Vdc |
| Width | 100mm | Connector | 2.5mm DC locking |
| Depth | 100mm | Max. current | 100mA |
| Weight | 0.5Kg | Power | 5Watts RX, 3Watts TX |
| Control | | Control | |
| Ethernet | 100BaseT | IR signal | 30-125kHz |
| Ethernet connector | RJ45 | IR connector | 3.5mm jack socket |
| DDC/EDID/CEC | Transparent | RS232 | Pass through to 115Kbaud |
| DDC/EDID connector | HDMI | RS232 connector | 3 pin screw lock |

APPLICATION DRAWING

