

Emerge® VSM2000 Multi-Function Video Scaler



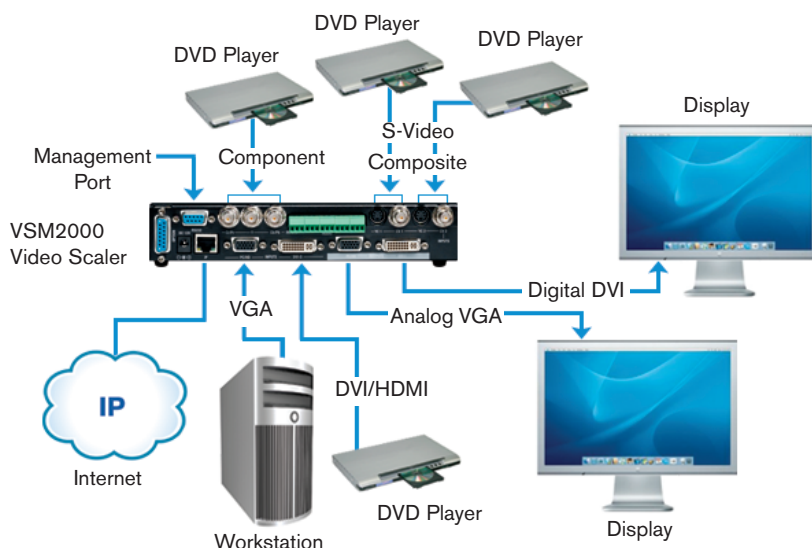
Presentation switcher

The Avocent EmERGE VSM2000 multi-function video scaler provides high scaling to analog or DVI computer or HDTV signals. NTSC and PAL video standards are supported. Video inputs are 2x composite, 2x s-video and 1x YUV component or YPbPr. RGB/YPbPr scaling permits the computer input signals to be scaled with the same flexibility as the video inputs. The output is selectable as any computer resolution up to 2048 x 2048 at any vertical refresh rate and all HDTV resolutions up to 1080p. A wide variety of computer signal formats are available to support PC, Mac and workstation formats.

All the functions can be controlled via front panel push buttons, an infrared controller or via an RS-232 or IP connection. A Windows control panel is provided for GUI-based control. Most third party control systems interface directly with the VSM2000 video scaler via serial or RS-232 interfaces. A front panel LCD makes setup easy.

Variable zoom to 10X allows you to enlarge any part of the video image to fill the entire computer screen and panning controls allow you to move around to any area desired. Variable shrink to as little as 10% allows fitting the image onto most displays. The advanced digital flicker elimination circuitry and high sampling rate insures crisp, clear images, while full bandwidth chroma sampling insures faithfully reproduced, high resolution colors.

Stereo audio switching is provided by an integral 4 x 1 audio routing switcher. The four impedance-independent unbalanced inputs follow the video input selection. A rear panel terminal block provides access.



KEY FEATURES

- Automatic Incoming Resolution Detection
- Analog Computer Input via HD-15 Connector
- DVI-D Computer Input via DVI-I Connector
- Inputs: 2x CV, 2x YC, 1x YUV/YPbPr Component
- Scaling of the RGB or YPbPr Input Signal
- Analog PC to 2048 x 2048, HDTV to 1080p
- DVI PC to 1280 x 1024, HDTV to 1080p/30
- AutoSet® - Automatic Picture Sizing
- Multiple Worldwide Television Standards
- 2x Outputs HD15 (RGB or YPbPr) DVI-I (Analog and Digital)
- Integral 4x1 Stereo Audio Routing Switcher
- RS-232 & IP Interface and Windows Control Panel
- IR Remote Control
- Variable Image Zoom to 10X and Shrink to 10%
- Optional Single/Dual Rackmount Kit
- Optional Input Expansion for additional inputs



This symbol on a product indicates that it is powered by CORIO2™ technology, the most flexible video processing engine now available.

EMERGE® VSM2000 MULTI-FUNCTION VIDEO SCALER

Technical Specifications

VSM2000: Mechanical / Power / Environmental

Size: 5.80" (147 mm) D, 8.60" (218 mm) W, 1.60" (41.5 mm) H
Shipping Weight: 2.6 lbs (1.20 Kg)
Power (External Power Supply): 12VDC@1A
Operating Temperature: 40°F (4°C) to 113°F (45°C)
Humidity: 10% to 85% (Non-condensing)

VSM2000: Video Inputs

Television Standards: NTSC, PAL, PAL-M, PAL-N, SECAM
Composite Video: 2x via BNC
S-Video (YC): 2x via 4-Pin Mini-DIN
YUV /YPbPr: 1x via 3-BNC

VSM2000: Computer Inputs

Signal Type: 1x Analog via HD-15 Female, 1x DVI-D via DVI-I Connector
Format: RGBHV, RGBS, RGsB, YPbPr
Sync: TTL Level, 10KU, Pos or Neg
Termination: Auto-terminating into 75U
R-G-B Level Range: 0.5-2.0 Vp-p
Scan Rate Detection: Automatic
PC Resolutions: Any up to 2048 x 2048
HDTV Resolutions: Any up to 1080p
Max Horiz Scan Rate: 150KHz
Computer Compatibility: PC, Macintosh, Workstations

VSM2000: Computer Outputs

Signal Type: 1x Analog via HD-15 Connector, 1x DVH via DVH Connector
Format: RGBHV, RGBS, RGsB, YPbPr
R-G-B Level: 0.7 Vp-p
Analog Signals: PC to 2048 x 2048, HD to 1080p
DVI Signals: PC to 1280 x 1024, HD to 1080p/30
Vertical Refresh Rate: Any to 250Hz

VSM2000: General

Size and Position: Automatic via AutoSet or Manual
Image Size: User-Definable Presets
Image Freeze: One Video Frame
Settings Memory: Non-Volatile
Zoom Range: Variable to 10X Zoom

Shrink Range: Variable to 10%

Image Mirroring: Horizontal and/or Vertical

Horizontal Filtering: Full Digital

Color Resolution: 24-bit (16.8 Million Colors)

Digital Sampling: 24-bit, 4:4:4 format

Firmware Memory: Flash, Upgradeable via RS-232

Video Decoder: 9-bit Digital

De-Interlacing (NTSC-PAL): Pixel-level Motion Adaptive

Comb Filter Decoding: Adaptive

Film Mode (NTSC): 3:2 Pulldown

Video Adjustments: Contrast, Brightness, Saturation, Hue (NTSC), R-G-B Levels

VSM2000: Audio Input/Output

Inputs: 4x Unbalanced via Terminals

Output: Unbalanced via Terminals

VSM2000: Control Methods

Local: Via Front Panel Buttons and OSD

RS-232 Interface: Via D9 Female Connector

IP Interface: RJ45 Connector

Infrared Remote: Via IRC-4 Remote Unit

Input Expansion Control: Via D-15 Options Connector

Standards

Main Unit: FCC, CE, RoHS

Power Supply: UL, CE, CSA, RoHS

Warranty

Two years

Ordering Details

Part Number	Description
VSM2000	Video Scaler
Accessories	
RMK-61	Rack Mount Kit



VSM2000 Video Scaler (Front)



VSM2000 Video Scaler (Back)

The Avocent Emerge VSM2000 multi-function video scaler provides high scaling to analog or DVI computer or HDTV signals.



One Dambrackas Way, Sunrise, FL 33351
TEL 800.275.3500 - 954.746.9000, Ext. 7110
FAX 954.746.9101 - connectivity.sales@avocent.com
www.connectivity.avocent.com

Avocent, the Avocent logo and Emerge are registered trademarks of Avocent Corporation or its affiliates. All other marks are the property of their respective owners. © 2008 Avocent Corporation.