DMC-VGA

VGA/Video Input Card for DM® Switchers

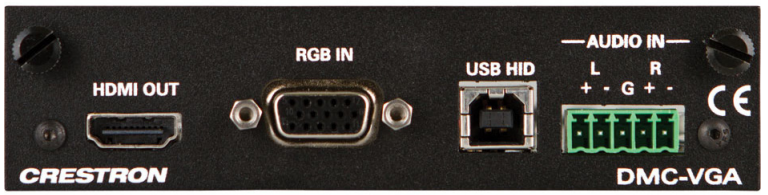
The DMC-VGA is an input card for a Crestron® DigitalMedia™ Switcher, providing one analog RGB video input[1] with stereo analog audio. The DMC-VGA handles computer resolutions up to WUXGA 1920 x 1200, as well as standard and HD video up to 1080p60. The professional balanced/unbalanced audio input accepts a stereo line level audio signal. Both the video and audio signals are converted to high-quality digital for distribution via DigitalMedia.

The DMC-VGA employs advanced analog video processing with anti-alias filtering and 3D comb filtering, offering improved performance over the DMC-DVI and other analog video input cards. Built-in time base correction is also included to ensure optimal results for use with video tape players.

In addition to the video and audio inputs, the DMC-VGA also includes an HDMI® output and a USB HID device port. The HDMI output can be used to pass the input signals through to a local audio processor or video monitor, or to feed a second DM® switcher for output expansion purposes. The USB HID port connects to the local source device (i.e., computer or media server), allowing it to be controlled by a mouse or keyboard located in another room, or at a presentation lectern, conference table, or some other remote location.

The DMC-VGA may also be used with the DMCI DigitalMedia Card Interface to create a very handy problem-solving tool with many useful functions. For instance, it can be used to convert analog video and audio to digital and merge them into a single HDMI output. As part of a complete Crestron control system, it can be used to detect input source format information, manage EDID, and extend a USB HID mouse/keyboard signal over Ethernet.

Whether installed in a DM switcher or DMCI, the DMC-VGA card affords a digital upgrade for analog-based systems like Crestron MPS, QuickMedia®, and the CEN-RGBHV Series. A simple HD15 VGA cable and balanced stereo audio cable connected between the output of an MPS system and the input of the DMC-VGA allows every RGB, component, S-Video, composite video, and audio input on the MPS to be converted to HDMI and DigitalMedia[1].



SPECIFICATIONS

Video

Input Signal Types: RGB, component (YPbPr)[1], S-Video (Y/C)[1], composite[1]
Output Signal Types: HDMI® or DVI[2] to switcher backplane and HDMI OUT connector
Formats: Computer up to UXGA/WUXGA, HDTV up to 1080p60, NTSC or PAL
Input Resolutions, RGB[1]: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@24Hz (1080p24), 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1080@24Hz, 2048x1152@60Hz
Input Resolutions, Component[1]: 480i, 576i, 480p, 576p, 720p50, 720p60, 1080i25 (1125 lines), 1080i30, 1080p30, 1080p50 (1125 lines), 1080p60
Input Resolutions, Composite and S-Video[1]: 480i, 576i
Output Resolutions: Matched to inputs
Analog-To-Digital Conversion: 12-bit 170 MHz per each of 3 channels

Audio

Input Signal Types: Analog stereo
Output Signal Types: HDMI to switcher backplane and HDMI OUT connector
Formats: Stereo 2-channel
Analog-To-Digital Conversion: 24-bit 48 kHz
Performance: Frequency Response: 20Hz to 20kHz ±0.75dB;
S/N Ratio: >95dB, 20Hz to 20kHz A-weighted;
THD+N: <0.005% @ 1kHz;
Stereo Separation: >90dB

USB

Protocols: Supports USB HID class devices

Connectors

HDMI OUT: (1) 19-pin Type A HDMI female;
HDMI digital video/audio output;
Also supports DVI[2]

RGB IN: (1) DB15HD female;
RGB (VGA), component, S-Video, or composite video input[1];
Formats: RGBHV, RGBS, RGsB, YPbPr, Y/C, NTSC, PAL;
Input Levels: 0.5 to 1.5 Vp-p with built-in DC restoration;
Input Impedance: 75 Ohms;
Sync Input Type: Autodetect RGBHV, RGBS, RGsB, YPbPr;
Sync Input Level: 3 to 5 Vp-p;
Sync Input Impedance: 510 Ohms

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USB HID: (1) USB Type B female; USB device port for connection to a computer or other USB HID-compliant host

AUDIO IN: (1) 5-pin 3.5mm detachable terminal block;
Balanced/unbalanced stereo line-level input;
Input Impedance: 24k Ohms balanced/unbalanced;
Balanced Input Level: 4 Vrms maximum;
Unbalanced Input Level: 2 Vrms maximum

Construction

Plug-in card, occupies (1) DM Switcher input card slot, includes metal faceplate w/black finish

Weight

8.0 oz (227 g)

MODELS & ACCESSORIES

Available Models

DMC-VGA: VGA/RGB Input Card for DM® Switchers

Available Accessories

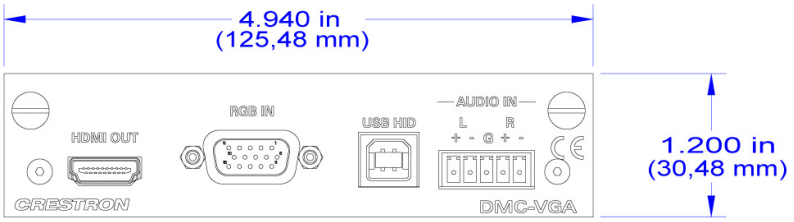
CBL-Series: Crestron® Certified Interface Cables
MP-WP Series: Media Presentation Wall Plates
MPI-WP Series: Media Presentation Wall Plates - International Version
DMCI: DigitalMedia™ Card Interface

Notes:

1. The RGB input can actually accept component, composite, and S-Video signals through a 3-BNC breakout cable (not included), or via direct interface to a Crestron MPS Series product. However, input sync detection is not provided for composite or S-Video signals.
2. HDMI connector requires an appropriate adapter or interface cable to accommodate a DVI device. CBL-HD-DVI interface cable available separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.



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