

DMediaPro™ DM5

High-Definition and Standard-Definition Graphics-to-Video Output Option

Features

- High-definition (HD) and standard-definition (SD) real-time graphics-to-video output for the Silicon Graphics Octane2 V12 visual workstation and SGI Onyx 3000 series with InfinitePerformance graphics¹
- Patented real-time colorspace conversion from RGB to YUV
- Supports user-definable region of the graphics frame buffer for display
- Support for all major HD and SD video formats
- 4:2:2 or 4:4:4 YCrCb video sampling with 8 or 10 bits per component
- 4:4:4 RGB video sampling with 8 or 10 bits per component
- Support for full sample rate alpha channel (8 or 10 bits)
- 16x9 or 4x3 aspect ratio
- Video BreakOut Box provides SDI and genlock connections
- Supports OpenML

Flexible Professional Digital Media

DMediaPro DM5 offers high-quality uncompressed HD and SD graphics-to-video output from 3D graphics, 2D imagery, and video data. All major film, broadcast, and postproduction HD formats are supported, including 1080p, 1080i, and 720p, while SD support includes PAL and NTSC timings.

Desktop Solutions with Silicon Graphics® Octane2™ and VPro™ V12 Graphics

DM5 is designed to be used in conjunction with the Octane2 V12 workstation with DMediaPro DM2 to deliver unrivaled desktop video quality, versatility, and performance. The graphics quality and system bandwidth of the Octane2 V12 plus the HD capabilities of DM2 and DM5 create today's most powerful desktop HD solution for visual effects, editing, and compositing applications.

High-End Solutions with the SGI® Onyx® 3000 Series and InfinitePerformance™ Graphics

DM5 on the SGI Onyx 3000 series with InfinitePerformance graphics adds the best graphics-to-video output capability to high-quality and cost-effective scalable visualization systems. These solutions deliver virtually unlimited I/O bandwidth and processing power for use in entertainment, manufacturing, government, and scientific research.

Designed for Broadcast Video

DM5 provides the functionality you'd expect in a professional video solution. DM5 enables live broadcast and real-time graphics applications with high-quality, real-time colorspace conversion from RGB graphics to YUV broadcast video. With DM5, editing and compositing applications can directly output to broadcast monitors for a reliable preview of color correction and image-filtering functions. The Video BreakOut Box [VBOB] provides industry-standard BNC connections to external video devices via serial digital interfaces for video I/O and analog SD and HD connections for genlocking to house sync.

Multiple Standards and Formats

The DM5 on Octane2 V12 and the SGI Onyx 3000 series with InfinitePerformance graphics both support 8- and 10-bit YCrCb and YCrCbA and 8-bit RGB output.

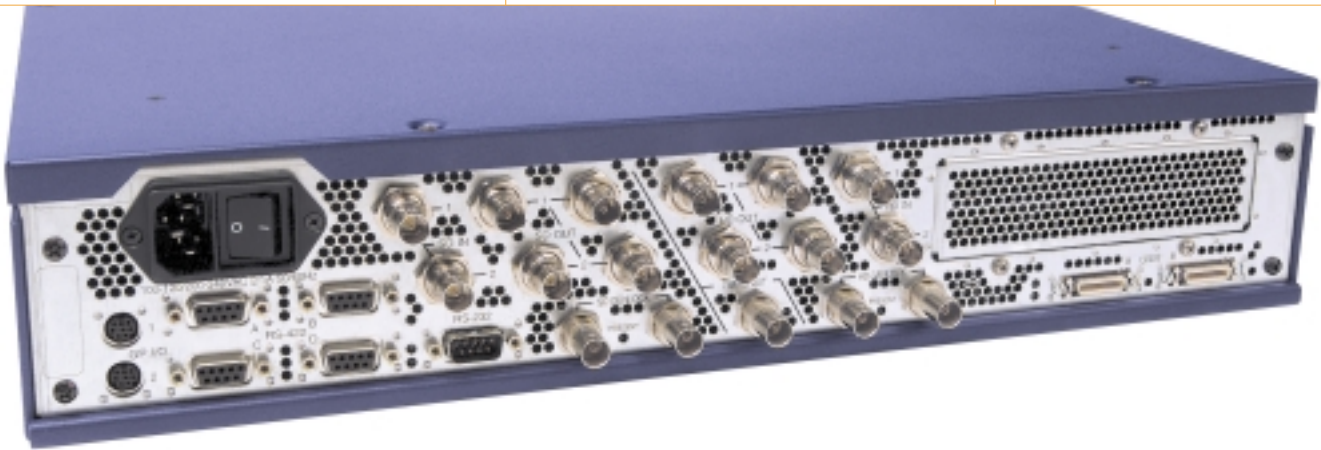
Professional Solutions

DMediaPro DM5 is a powerful integrated component in your professional video solution. Put the quality and versatility of DMediaPro products to work in your studio today.



DMediaPro DM5
Technical Specifications

Compatibility <ul style="list-style-type: none"> • Silicon Graphics Octane2 VI2 • DMediaPro DM2 high-definition and standard-definition video I/O option [in a future update] • SGI Onyx 3000 series with InfinitePerformance graphics • IRIX® 6.5.15 or greater 	Genlock <ul style="list-style-type: none"> • External house reference signal, input video signal, or internal reference [free-running] 	Digital Video Sampling <ul style="list-style-type: none"> • 4:2:2—YCrCb 8- or 10-bit • 4:4:4—RGB 8- or 10-bit • 4:2:2:4—YCrCbA 8- or 10-bit • 4:4:4:4—RGBA 8- or 10-bit 																									
	Input Connectors <ul style="list-style-type: none"> • Dual DVI-I 	Colorspace Support <ul style="list-style-type: none"> • SMPTE 240M • ITU-R BT.601 • ITU-R BT.709 	Digital Video Formats <table border="1"> <thead> <tr> <th>Format</th> <th>Image Size</th> <th>Scanning</th> <th>Frame Rate</th> </tr> </thead> <tbody> <tr> <td>• NTSC</td> <td>720x487</td> <td>Interlace</td> <td>29.97 Hz</td> </tr> <tr> <td>• PAL</td> <td>720x576</td> <td>Interlace</td> <td>25 Hz</td> </tr> <tr> <td>• 720p</td> <td>1280x720</td> <td>Progressive</td> <td>59.94 and 60 Hz</td> </tr> <tr> <td>• 1080i</td> <td>1920x1080</td> <td>Interlace</td> <td>25, 29.97, and 30 Hz</td> </tr> <tr> <td>• 1080p</td> <td>1920x1080</td> <td>Progressive</td> <td>23.976, 24, and 25 Hz 23.976, 24, and 25 PsF</td> </tr> </tbody> </table>		Format	Image Size	Scanning	Frame Rate	• NTSC	720x487	Interlace	29.97 Hz	• PAL	720x576	Interlace	25 Hz	• 720p	1280x720	Progressive	59.94 and 60 Hz	• 1080i	1920x1080	Interlace	25, 29.97, and 30 Hz	• 1080p	1920x1080	Progressive
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Output Format and Connectors <ul style="list-style-type: none"> • 2 SMPTE 259M BNC 75 ohm terminated, unbalanced—dual redundant connections • 2 SMPTE 292M BNC 75 ohm terminated, unbalanced—dual redundant connections • Single DVI-I loop-through 	Real-Time Features <ul style="list-style-type: none"> • High-quality color space conversion on output • Dual-link video or video and alpha video output 																										
	Regulatory <ul style="list-style-type: none"> • FCC Class A 																										



¹Available second half of 2002



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