

SGI™ DMediaPro™ DM2 and DMediaPro™ DM3

High-Definition and Standard-Definition Video I/O Option

Features

- High-definition (HD) and standard-definition (SD) real-time video input and output for the SGI 3000 family and Silicon Graphics Octane2 visual workstation
- 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)
- Patented real-time colorspace conversion
- 16x9 or 4x3 aspect ratio
- Video BreakOut Box (VBOB) provides SDI and genlock connections
- Compatible with OpenML

Flexible Professional Digital Media

DMediaPro DM2 for desktop workstations and DMediaPro DM3 for high-end visualization systems and servers offer high-quality uncompressed HD and SD digital video. Both options offer two independent input and two independent output channels that can be combined for a dual-link signal with video and alpha. HD support on both options includes all major film, broadcast, and post-production HD formats, including 1080p, 1080i, and 720p, while SD support includes PAL and NTSC timings.

Desktop Solutions with Silicon Graphics® Octane2™

The Octane2 workstation with DM2 delivers unrivaled desktop video quality, versatility, and performance. The graphics quality and system bandwidth of Octane2 plus the HD capabilities of DM2 create today's most powerful desktop HD solution for visual effects, editing, and compositing.

High-End Solutions with the SGI™ 3000 Family

DM3 on SGI™ Onyx® 3000 series and SGI™ Origin™ 3000 series systems adds support for enhanced-quality RGB and RGBA video sampling. The combined SGI 3000 family plus DMediaPro DM3 solution takes advantage of the scalable computing and high-bandwidth capabilities of the SGI™ NUMA architecture to deliver state-of-the-art film mastering, virtual sets, and multistream compositing capabilities.

Designed for Flexibility

DM2 and DM3 provide all of the functionality you'd expect in a professional video solution. A single XIO™ card and VBOB deliver uncompressed HD and SD formats. The 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

DM2 on Octane2 and DM3 on the SGI 3000 family both support 8- and 10-bit YCrCb and YCrCbA and 8-bit RGB I/O. The combination of DMediaPro DM3 with the SGI 3000 family adds support for 10-bit RGB and 8- or 10-bit RGBA I/O.

Professional Solutions

Advanced digital media has never been so accessible, versatile, and powerful. Whether you are doing video editing, compositing, broadcast graphics, or visual effects, DMediaPro DM2 enhanced desktop visual workstations and DMediaPro DM3 enhanced high-end systems provide breakthrough capabilities and productivity that are unmatched in the industry.

Put the quality and versatility of these new DMediaPro products to work in your studio today.



**SGI DMediaPro DM2 and DMediaPro DM3
Technical Specifications**

System Compatibility

- SGI 3000 family
- Silicon Graphics Octane2 V10 and V12
- Silicon Graphics® Onyx2® and SGI™ 2000 series (in a future update)
- IRIX® 6.5.11 or greater

Output Format and Connectors

- 2 SMPTE 259M BNC 75 ohm terminated, unbalanced—
dual redundant connections
- 2 SMPTE 292M BNC 75 ohm terminated, unbalanced—
dual redundant connections

Colorspace Support

- SMPTE 240M
- ITU-R BT.601
- ITU-R BT.709

Input Format and Connectors

- 2 SMPTE 259M BNC 75 ohm terminated, unbalanced
- 2 SMPTE 292M BNC 75 ohm terminated, unbalanced

Genlock

- External house reference signal, input video signal, or internal reference (free-running)

Real-Time Features

- High-quality colorspace conversion on input and output
- Dual-link video or video plus alpha I/O
- Compatible with OpenML™ V. 1.0

Regulatory

- FCC Class A

Digital Video Sampling

Format	Octane2 with DMediaPro DM2	SGI Onyx 3000 series and SGI Origin 3000 series with DMediaPro DM3
4:2:2—YCrCb	8- or 10-bit	8- or 10-bit
4:4:4—RGB	8-bit	8- or 10-bit
4:2:2:4—YCrCbA	10-bit video with 2-bit alpha	10-bit video with 2-bit alpha
4:4:4:4—RGBA	Not supported	8-bit video with alpha or 10-bit video with 2-bit alpha

Digital Video Formats

Format	Image Size	Scanning	Frame Rate	Timing
NTSC	720x486	Interlace	29.97 Hz	PAL/NTSC
PAL	720x576	Interlace	25 Hz	PAL/NTSC
720p	1280x720	Progressive	59.94 and 60 Hz	
1080i	1920x1080	Interlace	25, 29.97, and 30 Hz	
1080p	1920x1080	Progressive	23.976, 24, and 25 Hz	
1080PsF	1920x1080	Progressive	23.976, 24, and 25 PsF	



Corporate Office
1600 Amphitheatre Pkwy.
Mountain View, CA 94043
[650] 960-1980
www.sgi.com

North America [800] 800-7441
Latin America [52] 5267-1387
Europe [44] 118.925.75.00
Japan [81] 3.5488.1811
Asia Pacific [65] 771.0290