

Avid DekoCast



Avid® DekoCast™ is a single-box master control, channel branding, and localization system that combines real-time CG; video and audio clips; advanced DVE; and advanced keying. Available in SD, HD, or Hybrid configurations, Avid DekoCast gives broadcasters an all-in-one solution for delivering in-program advertising; weather and other alerts; credit sequence promotions; and a consistent, competitive channel identity.

Avid DekoCast options

Authoring Station A fully-featured DekoCast system designed exclusively for creating and previewing content. Not intended for on-air use, it has watermarked video output.

Clips option Provides up to 12 hours of DV25 video clip storage for instant playback of two independent simultaneous video clips, with key.

Cel animation player Allows a series of .tif or .tga files to be imported and used as an animated playout effect.

A complete broadcast branding solution, all in one box.

In a single on-air branding solution, Avid DekoCast reduces the costs associated with creating and implementing edge graphics and branding, while enabling new revenue opportunities through in-program advertising and promotions.

Format flexibility

Real-time native HD and SD graphics processing and output lets broadcasters create, manipulate, and output SD or HD material in real time and at full frame rate. All graphics, motions and effects—including 2D DVE-style transitions—can be on air instantly in SD or HD formats. Avid DekoCast also offers extended support for popular image and media formats, including .avi, .dv, .mxf, .tmf, and MPEG-2.

Real-time graphics, DVE, audio, and internal clips

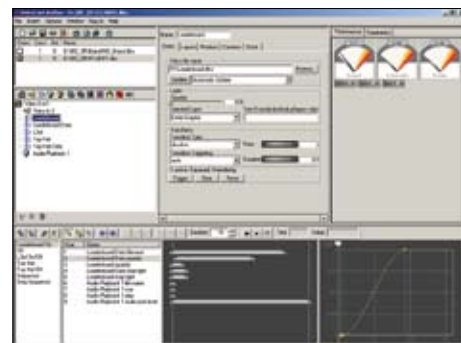
Apply real-time 2D DVE control to multiple Avid Deko® graphics, text, animated logos, internal video clips, and pass-through video—all from an intuitive timeline interface. The Avid DekoCast timeline allows real-time animation scripting with key-frame control over multiple parameters of scale, position, and opacity. Audio mixing controls let you add embedded audio or linked .wav sound files to effects to reinforce channel branding and capture audience attention.

Template-based dynamic graphics

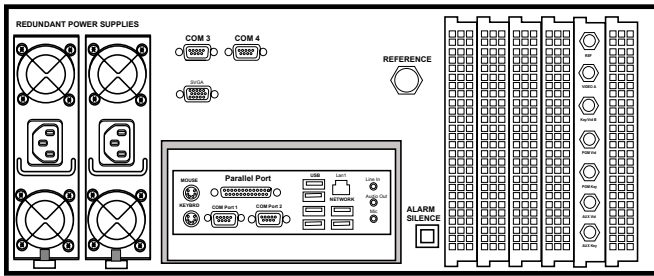
No other channel branding system can offer the comprehensive graphics and template creation of the powerful and user-friendly Avid Deko application. Take every advantage of the industry-leading Avid Deko graphic design workflow—including automation-ready templates with fit-to-fill, forced case, and auto-branding frames—in networked production environments.

Seamless facility fit

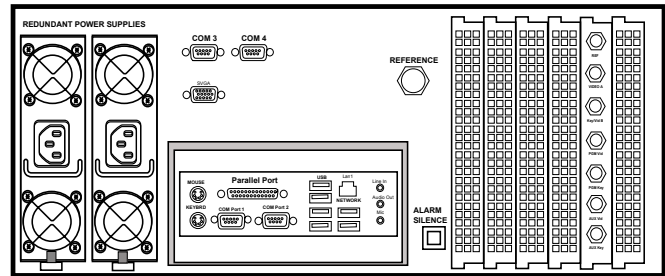
Avid DekoCast supports industry-standard master control automation systems including Louth, OmniBus, Sundance, Encoda, and Floral. Common system automation support includes the i.i.i protocol, XML and GPI controls, and customized applications using the DekoCast API developer kit. And the automatic or manually triggered bypass mechanism guarantees throughput of the incoming video signal.



Use DekoCast Plugins for gathering data more easily and from a wider variety of sources including Websites, RSS Feeds, ODBC-compliant Databases and even your iNEWS Rundown. Write your own Plugins for even more ways to gather data easily.



Avid DekoCast SD back panel



Avid DekoCast HD/Hybrid back panel

System specifications

Turnkey system specifications (minimum)

- Platform: SD: 3.4 GHz Intel Xeon T (or faster)
HD: 3.4 GHz Intel Xeon T (or faster)
- Operating system: Windows XP Professional
- RAM: SD/HD/Hybrid: 2GB
- Internal storage: 300 GB or larger
- Storage: DVD+R/+RW
- Ethernet: 1000 BASE-T (RJ-45)
- Ports: 1 serial RS-232 (DB9),
4 USB 2.0 (2 front, 2 rear)

Physical dimensions

- 4RU rack mount chassis
- Height: 7 inches (17.78 cm)
- Width: 19 inches (48.26 cm)
- Depth: 22 inches (55.88 cm)

Power specifications

- Dual redundant hot-swappable power supplies
- 110/220 Volt 60/50 Hz (auto-sensing)
- 400 watt maximum output

Supported video standards

(software configurable)

- Standard definition
 - Standard definition NTSC, PAL (both 4:3 and 16:9 supported)
- High definition
 - 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94

Video I/O 2D size and position of SD and HD input video

- Standard definition
 - SD SDI video and key input – SMPTE 259M compliant
 - Automatic retiming of synchronous inputs
 - SD SDI video and key output – SMPTE 259M compliant
 - Standard 10-bit, 4:2:2:4 sampling
 - Preserves VBI data in lines 10-20 (NTSC), 13-23 (PAL)
 - Horizontal output timing adjustment (-300 µsec to 300 µsec, half pixel increments)
 - Failover video and audio bypass built-in
- High definition

- SDI video and key input – SMPTE 292M compliant
- Automatic retiming of synchronous inputs
- SDI video and key output – SMPTE 292M compliant
- Standard 10-bit, 4:2:2:4 sampling
- Preserves VBI data in lines 7 through first active video line
- Failover video and audio bypass built-in

Video reference

- Standard definition
 - Analog color black
- High definition
 - Analog color black or tri-level sync
 - NTSC color black reference supported with 1080i/59.94 and 720p/59.94 formats
 - PAL color black reference supported with 1080i/50 format

Downstream keyer

- Standard definition
 - 10-bit video and key resolution
 - 1 frame processing delay through box
- High definition
 - 10-bit video and key resolution
 - 1 frame processing delay for 1080i
 - 2 frame processing delay for 720p

Audio I/O

- Standard definition
 - Standard 20-bit, 48 KHz sampling
 - 8 channels of audio input embedded per SDI video input
 - 8 channels of audio output embedded per SDI video output
 - Support for additional audio playback and mix from .wav files and clip sources
 - Preservation of Dolby-E audio encoding through system
- High definition
 - Standard 24-bit, 48 KHz sampling
 - 16 channels of audio input embedded per SDI video input

- 16 channels of audio output embedded per SDI video output
- Support for additional audio playback and mix from .wav files and clip sources
- Preservation of Dolby E audio encoding through system
- 4 channels (2 channel pairs) AES audio I/O

Clip option

- Independent control of clips
- Real-time 2D size and position of clip layer
- Looping clip playback capability

Clip capture and playback support

- Standard definition
 - MPEG-2 I-Frame 4:2:0 or 4:2:2 (playback only) sampling, variable bit rate (20-50 Mb), .MXF file format
 - DV25 standard compression format (.DV and .AVI file format) supported through transcode.)
 - Up to two clips with key simultaneous per system
- High definition
 - MPEG-2 I-Frame, up to 100 Mbps, .mxf file format
 - Up to two clips with key per system

System specifications subject to change.

Avid Total Services

Providing faster return on your investment by getting your systems and personnel up and running quickly, maximizing workflow efficiency, and meeting your production schedules. To learn more about Avid Total Services, please visit: www.avid.com/services.

To learn more—visit www.avid.com/DekoCast

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