



## Avid® DS™ v10.2.1 ReadMe

Avid recommends that you read all the information in this document before using Avid DS v10.2.1.

For a complete and updated list of known issues and limitations, go to Avid DS Customer Support Site at [www.avid.com/ds/support](http://www.avid.com/ds/support) or the Avid Knowledge Base at [www.avid.com/onlinesupport](http://www.avid.com/onlinesupport).

---

### Installing & Licensing Avid DS v10.2

Before installing the v10.2.1 software patch, you must install Avid DS v10.2 from the Avid DS v10.2 Software & Drivers DVD, or from the Avid DS Download Centre at [www.avid.com/support/downloadcenter/index.asp](http://www.avid.com/support/downloadcenter/index.asp).

- If you are installing Avid DS on a new hardware system, you will require a new license—see Licensing Instructions below.
- If you have upgraded any hardware on your system, you will require a new license.
- Existing systems running v10.1 can reuse their current licenses but they need to reinstall the license file before running v10.2.
- To enable the new Graphics-Link mode for 4:4:4 external monitoring, you will require a new license.

#### Installing Avid DS v10.2.1

- Download the AvidDS\_v10\_2\_1.zip file.
- Run the Setup.exe.
- Click the Installation Instructions button.

#### Licensing Instructions

All licensing instructions, such as extracting a dongle ID to installing a license file, or troubleshooting issues, can be accessed from the Start menu.

Go to **Start > All Programs > Avid > Avid DS v10.2 > Licensing Instructions**.

You can also find this information on the Licensing page of the Avid DS Support Site at [www.avid.com/ds/support](http://www.avid.com/ds/support).



*IMPORTANT: Any project opened by the Avid DS Training Edition will be unusable by licensed Avid DS systems. To transfer a project from Avid DS to Avid DS Training Edition, the project must first be copied and that copy opened with Avid DS Training Edition.*

*Avid DS archives may be opened by the Training Edition. Any editions or modifications made to this archive are not legible by a licensed Avid DS system.*

## New in this Release...

For links to specific information, see the following topics:

- [Supported Platforms and Operating Systems](#)
- [Qualified Products](#)
- [Avid DS Enhancements](#)
- [Additional Applications](#)

## Supported Platforms and Operating Systems

Avid DS is offered on Windows XP 64-bit for all hardware-based systems, and both 64-bit and 32-bit for software-only systems. Security Updates for Windows are also supported.

The 32-bit Nitris hardware system and Equinox-based platforms are not supported by this version of Avid DS.

The following platforms are supported:

- HP Z800/Dual-link/XP64
- HP xw8600/Dual-link/XP64
- HP xw8400/Nitris/Dual-link/XP64
- HP xw9300/Nitris/Dual-link/XP64
- HP xw8200/Nitris/XP64 (Dual-link is not supported on the xw8200)

### **Please Note:**

- Avid is no longer shipping dual-boot systems. For existing dual-boot systems, please refer to the Avid DS Support Center website (Configurations > Dual Boot Compatibility) for the qualified support.
- Windows XP 32-bit will only be offered with Avid DS Training Edition or Avid DS in software-only mode.
- For Avid DS and Avid DS Training Edition software, an NVIDIA Quadro card is required. See the Avid DS Support Site at <http://www.avid.com/ds/support> for additional qualified cards.

- *On the HP xw8600 and HP Z800 platforms.* You can use the Graphics-Link mode if your system is equipped with an NVIDIA Quadro FX-4600, FX-4800 or FX-5600. This option allows you to direct your output to an external monitor for viewing of high-res sequences (HD or higher).
- *On the HP xw8600 and HP Z800 platforms.* Real-time GPU processing is automatically available if your system is equipped with an NVIDIA Quadro FX-3700, FX-4600, FX-4800 or FX-5600.

## **New Platform**

The HP Z800 workstation, with new architecture delivers significant performance and productivity improvements. These are the specifications:

- Dual Intel® Xeon® Quad-Core X5570 processor (2.93 GHz, 8 MB cache, 1333 MHz memory)
- 6 GB RAM (Optional 12 GB configuration available. Contact your reseller for details.)
- BIOS 1.14 (Minimum supported version is the 1.06)
- NVIDIA Quadro FX4800 PCI-E 2.0 with NVIDIA driver 182.65
- Dual-link HD SDI board (AJA Xena 2Ke)
- The platform also comes with the 30" LCD monitor (HP LP3065) with a resolution of 2560x1600. A special layout is available for this single widescreen monitor, and will automatically display when the monitor is installed.



*Please consult the NVIDIA driver installation instructions on the Avid DS Application DVD to properly configure the graphics card for Avid DS. In addition, an updated NVIDIA profile is available on the Application DVD which needs to be used for proper operation of your Avid DS system.*

## **Operating System**

The Avid® DS workstation comes pre-installed with the Microsoft Windows XP Professional x64 Edition operating system, Service Pack 2, approved Windows Security Updates and all required Avid DS drivers.

# **Additional Applications**

With every full version of Avid DS, Avid is also bundling a free copy of Avid Media Composer v3.5.4 (software-only) and Avid Metafuzze v2.0.

## Avid Media Composer

Avid Media Composer allows the generation of AFE from bins. It also allows the proper logging and capture of P2 and XDCAM that can then be used in Avid DS through an AFE conform.

The software can be installed on Windows XP Professional x64 Edition but only for Avid DS conform tasks. Avid does not support Avid Media Composer on this operating system for other purposes.

Avid DS v10.2 is compatible with Avid Media Composer v3.5 to v3.5.4 (software-only).

Media Composer is now enabled by a software activation key instead of a dongle. For details on activating the software, see the *Installation Guide for Avid Editing Applications* in the Online Library.

## Avid MetaFuze

Avid DS v10.2 is bundled and shipped with Avid MetaFuze v2.0.

Avid MetaFuze provides a complete offline-to-finish file-based workflow. MetaFuze allows the generation of MXF media from DPX, R3D, TIF, JPG, AVI and QuickTime files, which can then be offlined in Media Composer.

## Avid DS Training Edition

The Avid DS v10.2 Training Edition is an academic software designed especially for training purposes. It does not require a license or dongle activation, and it is not for resale.

You can download this free 32-bit educational application from the Trial Products section of the Avid web site.



*IMPORTANT: Any project opened by the Avid DS Training Edition will be unusable by licensed Avid DS systems. To transfer a project from Avid DS to Avid DS Training Edition, the project must first be copied and that copy opened with Avid DS Training Edition.*

*Avid DS archives may be opened by the Training Edition. Any editions or modifications made to this archive are not legible by a licensed Avid DS system.*

# Avid DS Enhancements

## Hi-Res Playback on an External Monitor

With the latest Avid DS enhancements and the appropriate graphics card, you can now play back high-res sequences (HD or higher) on an external monitor. Using the GPU processor and the second output of the graphics card, Avid DS is capable of 10-bit 4:4:4 RGB color-managed display on either a computer monitor, or an external monitor such as DreamColor, Cine-tal or Barco—see [Viewing High-Resolution Sequences](#) in the Help.



*The monitor output from the graphics card is currently only running at 8-bit, however, a fix to enable 10-bit is anticipated in a future release.*

You can redirect your output to an external monitor only if you have one of the following NVIDIA graphics cards—Quadro FX-4600, FX-4800, or FX-5600.

When using Avid DS Graphics-Link (GL) mode:

- the audio playback is still handled by the dual-link card.
- all capture is disabled.

## AVX2 Plug-in Support

Support for the AVX2 architecture will make newer 64-bit AVX2-based plug-ins available for Avid DS. AVX2 will be supported by a wide variety of effects plug-in vendors including Boris, GenArts, and Ultimatte. Please check with the 3rd-party vendor for availability of the plug-ins.

With AVX2 support, Avid DS will have an increased level of conform from Media Composer and Symphony.

## Deck Support

Avid DS supports double-speed capture from the Sony SRW-5800 or SRW-1 deck. Deck presets for this are available in Avid DS.

Some limitations do apply:

- The double-speed option is only supported on Dual-link systems (using the AJA Xena 2Ke).
- Live capture may not be frame accurate.
- The deck may need a cold reboot between format changes (else you may get mixed frames inside the clip).

- Specific Avid DS presets (Sony SRW-5800\_xx\_DBL) must be used to enable the double-speed capture.
- A Play bias value of -2 (minus 2) must be set in the deck preset for proper accuracy.

Also, please note the following guidelines:

- This deck does not support the edit operation (insert and assemble) in double-speed mode, nor crash record.
- Other modes specific to this deck are not yet supported in Avid DS (4:2:2 x2, DPX).
- AES outputs are disabled in double-speed. You must use the embedded audio.

### **RED File Support**

- Audio contained in .r3d clips can be imported.
- You can save your RED file settings to an RLX file (in the RED Import dialog box).
- Avid DS supports the RED SDK v1.6.

### **QuickTime Support**

Avid DS supports v7.6 or higher of QuickTime.

### **Capturing**

The Capture List dialog box has been redesigned to include the following:

- The full path of the source clips that you want to recapture.
- Color coding to indicate whether the original path where the source media is located has been modified.
- Ability to filter the capture list to display the type of source media. For example, you can choose to only display media from tape.
- An indication of the number and type of active clips that will be recaptured.

While capturing, the analog outputs are now active so that the incoming image can be displayed on a component monitor (SD or HD).

### **New Sequence Formats**

New film sequence formats for ARRI D21 and 1920 x 816 are now available.

### **New HD Conversion Mode**

On dual-link systems, there is a new HD conversion mode - 1080p @24Hz (true progressive) for 1080psf @24Hz sequences.

## Linking to Media

You can now copy your media and link to it in one step. For example: You have a series of DPX files on a non-real time remote storage that you want to link and use in Avid DS. Using the copy-link function on the capture menu, you can link to those DPX and Avid DS will copy them to your local storage in a single operation to make them real-time playable.

Linking to copied media files is also useful when more than one person needs access to the same file and you do not want your copy to be modified by others—see [Copying and Linking Media](#) in the Help.

## Relinking to XDCAM Files

You can now relink to XDCAM files, with time codes of any size, without audio issues.

## Removal of Extra Layouts

The extra layouts are no longer available from the layout menu:

- If you were using them, you will automatically be switched back to the Classic layouts.
- You will no longer be able to have two sets of layouts. You can customize the Classic layouts but cannot create a second set of layouts.

## Performance Enhancements

- Full perspective DVE: The DVE now has realtime rotation in Y and Z.
- General performance enhancements and tuning to get the best performance possible for playback and processing on dual quad core platforms.
- The blending modes, in the Layers view and in the composite node of the Effects tree, have been GPU-accelerated to give you better performance.
- Optimization of all the Keyers.

## Miscellaneous Workflow Enhancements

- Timeline to MC: Permits source name and timecode to be entered and exported through MXF.
- Scrolling Timeline: Available via the Scrolling timeline command, which can be added to a user toolbar or mapped to a shortcut key.
- Timeline enhancements: The timeline interface now indicates the section between the in and out-points.
- Importing Quicktime movies: When you capture Quicktime files, the timecode of the movie is preserved in Avid DS (if available).

- HSL Keyer enhancements: The HSL Keyer effect now has improved clipping and softness adjustments to Hue, Saturation, and Luminance. If you load a sequence created in a previous version of Avid DS 10.2, the old HSL Keyer effect will be renamed HSL Keyer v1.
- Conform QuickTime files: Forces all QuickTime files found in an AAF or AFE conform to be created as Logs instead of Linked files even when the Create Linked file option is enabled.
- Alternate Source Conform: When the folders are scanned, you will be prompted if both R3D and DPX files are found in the folders. This will allow you to choose which file type you want to import for the conform.

There is also better source name matching for RED media in the alternate source conform.

- Tape ID as created by RED tools and camera at the OS level, for example: A003\_C001\_0225FC
- Filename without extension, for example: A003\_C001\_022509
- Final Cut Tape source naming, for example: A003C001
- RED reel ID, for example: A003
- Mocha workflow enhancement: When tracking, you can now multi-select up to eight .fraw files and import them in a single move—see [Importing Tracking Points](#) in the Help.
- Avid DS Services: The project indexer is now more robust and has a new persistence system to ensure less chance of corruption.

### Documentation Enhancements

- The Timewarp effect section has been rewritten to discuss how to use the Adaptive Deinterlacing option.
- The color management and hi-res workflow sections have been redesigned to explain how to use Look-up tables in the Avid DS pipeline.

## Qualified Products

The following products have been qualified with this version of Avid DS.

### Avid Unity ISIS v2.01 Client Support

Avid DS v10.2 on XP-64 clients with a 1 GB Ethernet connection are supported on Avid Unity ISIS v2.0.1 and later. Please note the following:

- 10-bit DNxHD media playback is limited to 1 stream in the above qualification.

- 10-Gbit Ethernet connections to Avid Unity ISIS remain unqualified for use with Avid DS.

### **Avid MediaNet 5.x Compatibility**

Avid DS v10.2 and later is supported on Avid MediaNet 5.1.

The number of streams and clients supported depends on your MediaNet configuration. Refer to the storage table on the Avid DS Support Center web site.

### **Supported Storage and Cards**

The following cards are supported when connecting to the respective storage:

<b>Storages</b>	<b>Card</b>
SAS—Avid VideoRAID SR	Onboard built-in LSI-Logic SAS 3000 1068e
SCSI—Avid VideoRAID RTR (2x10-bay), MediaDock LVD, and MediaDock Ultra320	Atto UL5D U320
Avid Unity MediaNetwork	Atto Celerity FC-41ES
Avid Unity ISIS	Intel Pro1000 PT

### **Third-Party Plug-ins**

Existing plug-ins from The Foundry, Imagica (Primatte) and GenArts (Speedsix) that were built for Avid DS v10, will not work with Avid DS v10.2. These vendors hope to have supported plug-ins for v10.2 soon.

Please refer to the Avid DS Support center web page for the current plug-in support. <http://avidssupport.avid.com/index.htm?section=download/plugin-ins.htm>

# Legal Notices

Product specifications are subject to change without notice and do not represent a commitment on the part of Avid Technology, Inc.

The software described in this document is furnished under a license agreement. You can obtain a copy of that license by visiting Avid's Web site at [www.avid.com](http://www.avid.com). The terms of that license are also available in the product in the same directory as the software. The software may not be reverse assembled and may be used or copied only in accordance with the terms of the license agreement. It is against the law to copy the software on any medium except as specifically allowed in the license agreement.

This document is protected under copyright law. An authorized licensee of Avid DS may reproduce this publication for the licensee's own use in learning how to use the software. This document may not be reproduced or distributed, in whole or in part, for commercial purposes, such as selling copies of this document or providing support or educational services to others. This document is supplied as a guide for [product name]. Reasonable care has been taken in preparing the information it contains. However, this document may contain omissions, technical inaccuracies, or typographical errors. Avid Technology, Inc. does not accept responsibility of any kind for customers' losses due to the use of this document. Product specifications are subject to change without notice.

Copyright © 2009 Avid Technology, Inc. and its licensors. All rights reserved.

The Avid DS application uses JScript and Visual Basic Scripting Edition from Microsoft Corporation.

## **The following disclaimer is required by Paradigm Matrix:**

Portions of this software licensed from Paradigm Matrix.

## **The following disclaimer is required by Ray Sauers Associates, Inc.:**

"Install-It" is licensed from Ray Sauers Associates, Inc. End-User is prohibited from taking any action to derive a source code equivalent of "Install-It," including by reverse assembly or reverse compilation, Ray Sauers Associates, Inc. shall in no event be liable for any damages resulting from reseller's failure to perform reseller's obligation; or any damages arising from use or operation of reseller's products or the software; or any other damages, including but not limited to, incidental, direct, indirect, special or consequential Damages including lost profits, or damages resulting from loss of use or inability to use reseller's products or the

## 1 Legal Notices

software for any reason including copyright or patent infringement, or lost data, even if Ray Sauers Associates has been advised, knew or should have known of the possibility of such damages.

### **The following disclaimer is required by Videomedia, Inc.:**

“Videomedia, Inc. makes no warranties whatsoever, either express or implied, regarding this product, including warranties with respect to its merchantability or its fitness for any particular purpose.”

“This software contains V-LAN ver. 3.0 Command Protocols which communicate with V-LAN ver. 3.0 products developed by Videomedia, Inc. and V-LAN ver. 3.0 compatible products developed by third parties under license from Videomedia, Inc. Use of this software will allow “frame accurate” editing control of applicable videotape recorder decks, videodisc recorders/players and the like.”

### **The following disclaimer is required by Altura Software, Inc. for the use of its Mac2Win software and Sample Source Code:**

©1993–1998 Altura Software, Inc.

### **The following disclaimer is required by Interplay Entertainment Corp.:**

The “Interplay” name is used with the permission of Interplay Entertainment Corp., which bears no responsibility for Avid products.

This product includes portions of the Alloy Look & Feel software from Incors GmbH.

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

© DevelopMentor

### **This product may include the JCifs library, for which the following notice applies:**

JCifs © Copyright 2004, The JCIFS Project, is licensed under LGPL (<http://jcifs.samba.org/>). See the LGPL.txt file in the Third Party Software directory on the installation CD.

Avid Interplay contains components licensed from LavanTech. These components may only be used as part of and in connection with Avid Interplay.

### **Attn. Government User(s). Restricted Rights Legend**

U.S. GOVERNMENT RESTRICTED RIGHTS. This Software and its documentation are “commercial computer software” or “commercial computer software documentation.” In the event that such Software or documentation is acquired by or on behalf of a unit or agency of

the U.S. Government, all rights with respect to this Software and documentation are subject to the terms of the License Agreement, pursuant to FAR §12.212(a) and/or DFARS §227.7202-1(a), as applicable.

## Trademarks

003, 192 Digital I/O, 192XD I/O, 888 I/O, AirPlay, AirSPACE, AirSPACE HD, AirSpeed, ALEX, Alienbrain, AniMatte, AudioMarket, AudioPages, AudioSuite, AudioVision, AutoSync, Avid, Avid Advanced Response, Avid DNA, Avid DNxcel, Avid DNxHD, AVIDdrive, Avid DS Assist Station, Avid EditStar, Avid Learning Excellerator, Avid Liquid, Avid Liquid Chrome Xe, Avid MEDIArray, Avid Mojo, AvidNet, AvidNetwork, Avid NewStar, Avid Remote Response, AVIDstripe, Avid Unity, Avid Unity ISIS, Avid VideoRAID, Avid Xpress, AVoption, AVX, Beauty Without The Bandwidth, Boom, C|24, CaptureManager, ChromaCurve, ChromaWheel, Command|24, Conectiv, Countdown, DAE, Dazzle, Dazzle Digital Video Creator, Deko, DekoCast, D-Fi, D-fx, DigiDelivery, Digidesign, Digidesign Audio Engine, Digidesign Intelligent Noise Reduction, DigiDrive, DigiLink, DigiMeter, DigiSerial, DigiStudio, DigiStudio Control, Digital Nonlinear Accelerator, DigiTranslator, DINR, DNxchange, do more, DVD Complete, D-Verb, Eleven, Equinox, EveryPhase, ExpertRender, Fastbreak, Fast Track, FieldPak, Film Composer, FilmScribe, Flexevent, FluidMotion, FXDeko, G7, G-Rack, HD Core, HD Process, HDPack, HYBRID, HyperControl, HyperSPACE, HyperSPACE HDCAM, IllusionFX, Image Independence, iNEWS, iNEWS Assign, iNEWS ControlAir, Instantwrite, Instinct, Intelli-sat Broadcasting Recording Manager, Intelli-Sat, InterFX, Interplay, inTONE, Intraframe, iS9, iS18, iS23, iS36, ISIS, IsoSync, KeyRig, KeyStudio, LaunchPad, LeaderPlus, Lightning, ListSync, Lo-Fi, Magic Mask, Make Anything Hollywood, make manage move | media, Marquee, M-Audio, M-Audio Micro, Maxim, Mbox, MCXpress, Media Browse, Media Composer, MediaDock, MediaDock Shuttle, Media Fusion, Media Illusion, MediaLog, Media Reader, Media Recorder, MEDIArray, MediaShare, MediaStream, Media Suite, Meridien, MetaFuze, MetaSync, MicroTrack, Midiman, MissionControl, Mix Rack, MixLab, Moviebox, Moviestar, NaturalMatch, Nearchive, NetReview, NewsCutter, Nitris, NRV-10 interFX, Octane, OMF, OMF Interchange, OMM, OnDVD, Open Media Framework, Open Media Management, Palladium, Pinnacle, Pinnacle DistanTV, Pinnacle Geniebox, Pinnacle HomeMusic, Pinnacle MediaSuite, Pinnacle Mobile Media, Pinnacle Studio, Pinnacle Studio MovieBoard, Pinnacle Systems, ProEncode, ProServices, ProSessions, Pro Tools, QuietDrive, Recti-Fi, Reel Tape Delay, Reel Tape Flanger, Reel Tape Saturation, RetroLoop, rS9, rS18, Salesview, Sci-Fi, Scorch, Scorefitter, ScriptSync, SecureProductionEnvironment, Session, Show Center, Sibelius, SIDON, Soft SampleCell, Soft-Clip Limiter, Sound Designer II, SPACE, SPACESHift, SpectraGraph, SpectraMatte, Sputnik, Starplay, SteadyGlide, Streamfactory, Streamgenie, StreamRAID, Strike, Structure, Studiophile, SubCap, Sundance Digital, Sundance, Symphony, SYNC HD, SynchroScience, SynchroScope, Syntax, TDM FlexCable, Thunder, Titan, Titansync, TL Aggro, TL AutoPan, TL Drum Rehab, TL Everyphase, TL Fauxlder, TL In Tune, TL MasterMeter,

## 1 Legal Notices

TL Metro, TL Space, TL Utilities, Torq, Torq Xponent, Transfuser, Trigger Finger, Trillium Lane Labs, TruTouch, UnityRAID, Vari-Fi, Velvet, Venom, VideoRAID, Video Slave Driver, VideoSPACE, VideoSpin, Vortex, Xdeck, X-Form, Xmon, Xponent, and X-Session are either registered trademarks or trademarks of Avid Technology, Inc. in the United States and/or other countries.

Adobe and Photoshop are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries. Apple and Macintosh are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. All other trademarks contained herein are the property of their respective owners.

### GOT FOOTAGE?

Editors — Filmmakers — Special Effects Artists — Game Developers — Animators — Educators — Broadcasters — **Content creators of every genre** — Just finished an incredible project and want to share it with the world?

Send us your reels and we may use your footage in our show reel or demo!\*

For a copy of our release and Avid's mailing address, go to [www.avid.com/footage](http://www.avid.com/footage).

\*Note: Avid cannot guarantee the use of materials submitted.

Avid DS v10.2.1 Readme • 0130-30205-02 Rev A • September 2009