



Avid[®] MetaFuze[™] v1.3 ReadMe

Avid recommends that you read all the information in this document before using Avid MetaFuze.

Features

Look-up Table (LUT) Support

The following LUT formats are supported:

- RED LOG
- ITU 601/709
- Linear Video
- Legacy Graphic
- SMPTE 240M
- Linear
- Printing Density
- GAMMA 2.6
- SRGB (IEC 61966-2.1)

1D LUT formats from Autodesk, Apple, and Avid are supported.

MetaFuze also comes with default LUT templates for Linear, Log to Lin, and Gamma to Lin. You can create your own LUT based on these templates.

File Support

MetaFuze supports different files including DPX, R3D, TIF, QuickTime[™], AVI, and JPG.

Additional still file parsers can be written for both MetaFuze and Avid DS using the parser SDK which is available as part of the Avid DS SDK. (To obtain the Avid DS SDK, please email steve_mceill@avid.com.)

For output, MetaFuze can transcode source media to MXF sequences in the following formats:

- 720p/23.976 HD

- 720p/24 HD
- 1080p/23.976 HD
- 1080p/24 HD
- 1080p/25 HD

ALE Export

If you have created multiple MXF files that you want to edit on your Avid Media Composer workstation, you can export the clips via an ALE file.

Stereoscopic Support

MetaFuze can create stereoscopic groups or containers that can be used by Media Composer and Avid DS. For Media Composer you must use the Over/Under with left eye on top and right eye on the bottom. MetaFuze can also transcode left and right eyes in Side by Side, Anaglyph, and Interlaced modes which are all supported in Avid DS.

Other Software Enhancements

The following fixes/changes have been made to MetaFuze:

Filtering of File Types for Scanning

You can now filter out unwanted files from your scan folders. This drastically improves the time it takes to scan your folders—see [Scan Folders Dialog Box](#) in the MetaFuze User Guide.

Black Levels Setting

The Black Levels field has been removed from the Group view. It is now included in the RLX file.

Transcoding Process

The keyboard shortcut to stop the transcoding process has been disabled. You must now click the Cancel button to stop transcoding.

Other keyboard shortcuts have also been added:

Option	Keyboard shortcut
To select or deselect more than one group	Ctrl-click
To select all groups	Ctrl-A

Option	Keyboard shortcut
To create new transcode jobs for the entire selection	Ctrl-T

Option	Keyboard shortcut
To select all transcode jobs	Ctrl-Shift-A
To generate MXF files for all transcode jobs selected	Ctrl-Shift-T

Known Limitations

- 10-bit DNxHD codecs are not yet supported.
- Avid MetaFuze does not extract audio from any file type, including R3D.
- For R3D files, only the Absolute Timecode is supported.
- 3D LUTs are not supported.

Installing Avid MetaFuze

Avid® MetaFuze™ runs on Microsoft Windows XP (32-bit and 64-bit), Linux and Macintosh operating systems.



MetaFuze has been tested with Wine (an Open Source implementation of the Windows API on top of Linux).

MetaFuze can be installed on a basic system with a dual-core processor and at least 2 GB RAM. Refer to the appropriate sections below for details on the Windows, Macintosh, or Linux installation process.

Installing MetaFuze on Microsoft Windows

If you have installed a previous version of MetaFuze, you **MUST** first remove it before installing the latest version.



MetaFuze project files from previous versions are not compatible with this version of MetaFuze.

To uninstall MetaFuze:

1. Click the Windows **Start** button and then select the Control Panel.
2. Double-click **Add or Remove Programs**.
3. Select Avid MetaFuze and click the **Change** button.
4. Follow the online instructions to remove MetaFuze.

To install MetaFuze:

1. Double-click the Setup.exe.
2. Click Yes to install DirectX.

The MetaFuze installer also includes Microsoft VC 2005 redistributable component.

After the runtime components have been installed, you are prompted to begin the MetaFuze installation.

3. During the MetaFuze installation, a DOS command box opens. Wait until this process is complete and then click Finish when prompted.

To start MetaFuze:

- ▶ Click the **Start** button and then select **Avid > Avid MetaFuze > Avid MetaFuze**.

Installing MetaFuze on Macintosh

You will need to install VMware Fusion on the Mac and then run Windows. Once you are in the Windows environment, see “[Installing MetaFuze on Microsoft Windows](#)”.

Installing MetaFuze on Linux

MetaFuze has been tested on the Red Hat Enterprise Linux Client v5.1 using the Wine API, however it has been reported to run on other Linux platforms.

Wine is a compatibility layer for running Windows programs. It is a free software and needs to be installed on top of the Linux operating system.



WARNING! Installing MetaFuze under Linux is for users who are familiar with Linux installations, the Linux shell and that have access to the root password on their system. We recommend that the installation be done by a system administrator.

To check the version of the Red Hat Linux client that you have:

1. In a Linux shell, type the following:

```
less /etc/redhat-release
```

The output will display something like:

```
Red Hat Enterprise Linux Client release 5.1 (Tikanga)
```

2. To verify kernel version you have, type:

```
uname -a
```

The kernel information will display as:

```
Linux ... 2.6.18-53.1.6.el5 #1 SMP Wed Jan 16 03:56:43 EST 2008 i686
athlon i386 GNU/Linux
```



Note: Some users have successfully used MetaFuze on Ubuntu 7.04 (Feisty Fawn) and 8.04 (Hardy Heron) which use the GNOME-Nautilus desktop. On these platforms, the user interface responsiveness was better if:

- NVidia drivers were installed and in use.
- No special desktop effects were enabled nor custom window decorator (i.e. CompizFusion, formerly known as Beryl and the Emerald window decorator).

To install Wine:

1. Go to the Wine web site (<http://www.winehq.org/>) and download Wine 0.9.58 or higher.
2. Use the following source install script to build and install wine.

```
$WINE_INSTALL_DIR/tools/wineinstall
```

where \$WINE_INSTALL_DIR refers to where wine binaries are installed. This is usually under /usr/local/bin.



You will need to be root to install in a system directory.

3. In Wine, you will need to set the Windows version to XP.

Notes:

- Wine is always executed as a regular user, never as root.
- Directory \$HOME/.wine will contain all the Wine data including system registry settings. \$HOME refers to the current user home directory; i.e. "~/.". It is equivalent to a virtual windows installation.
- The \$HOME/.wine directory will be created the first time a user runs a Wine program. If you ever remove \$HOME/.wine, it will remove MetaFuze and other applications that were previously installed under Wine.

To install MetaFuze:

1. Run the MetaFuze setup program under Wine as this will install the VC8 runtime and MetaFuze binaries. To do this, you will need to copy the MetaFuze setup to a local Linux partition and execute the following:

```
wine setup.exe
```

2. Install MetaFuze in the default destination folder: C:\Program Files\Avid\MetaFuze.



During the install, you will receive Wine warnings in the shell. Disregard these messages and proceed with the install.

3. Once the install is complete, you will need to run a script to register the Wine DLLs. Go to the MetaFuze directory:

```
cd $HOME/.wine/drive_c/Program Files/Avid/MetaFuze
```

4. Open a wine command prompt:

```
wine cmd
```

5. Run the DLL registration script:

```
RegisterMetaFuze.cmd
```

You will see the output from the registration process.

6. To exit from Wine's command prompt:

```
exit
```

7. You must set an environment variable to disable spurious logging from Wine:

```
export WINEDEBUG=fixme-all
```



This is strongly suggested as it will speed up execution significantly.

To start MetaFuze:

- ▶ Do one of the following:
 - If you are using RedHat 5, select **Applications > Wine > Programs > Avid > Avid MetaFuze > MetaFuze 1.0.**
 - From a Linux shell, type:


```
cd $HOME/.wine/drive_c/Program Files/Avid/MetaFuze
wine MetaFuzeApp.exe
```

To run MetaFuze in batch mode:

- ▶ Type:


```
wine MetaFuze.exe batch.xml
```

Installing the NVidia Graphics Card Driver

If your workstation has an NVidia graphics card, you will need to install the Linux driver for it.

To install the NVidia Drivers:

1. Download the Linux driver from <http://www.nvidia.com>.
2. To install and compile the NVidia driver, you need to be running as root under runlevel 3. Type:


```
init 3
```



The installer script will also update your /etc/X11/xorg.conf file.

3. From a Linux shell, run the following script:


```
NVIDIA-Linux-x86-169.12.pkg1.run.
```
4. To return to the graphical interface with runlevel 5, type:


```
init 5
```

If You Need Help

If you are having trouble using your editing application:

1. Retry the action, carefully following the instructions given for that task. It is especially important to check each step of your workflow.
2. Check this ReadMe file for the latest information that might have become available *after* the documentation was published.
3. Check the documentation that came with your Avid application or your hardware for maintenance or hardware-related issues.
4. Visit Avid Online Support at www.avid.com/onlinesupport. Online support is available 24 hours per day, 7 days per week. Search the Knowledge Base to find answers, to view error messages, to access troubleshooting tips, to download updates, and to read or join online message-board discussions.

Copyright and Disclaimer

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. 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 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. 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. Printed in USA.

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

888 I/O, Adrenaline, AirPlay, AirSPACE, AirSPACE HD, AirSpeed, ALEX, Alexis, AniMatte, AudioSuite, AudioVision, AutoSync, Avid, Avid Advanced Response, Avid DNA, Avid DNxcel, Avid DNxHD, AVIDdrive, AVIDdrive Towers, Avid DS Assist Station, Avid ISIS, Avid Learning Excelsior, Avid Liquid, Avid Mojo, AvidNet, AvidNetwork, Avid Remote Response, AVIDstripe, Avid Unity, Avid Unity ISIS, Avid Xpress, AVoption, AVX, CamCutter, ChromaCurve, ChromaWheel, Conectiv, DAE, Dazzle, Deko, DekoCast, D-Fi, D-fx, DigiDelivery, Digidesign, Digidesign Audio Engine, Digidesign Intelligent Noise Reduction, DigiDrive, Digital Nonlinear Accelerator, DigiTranslator, DINR, DNxchange, do more, D-Verb, Equinox, ExpertRender, Face Robot, FACE ROBOT, FastBreak, Fast Track, FieldPak, Film Composer, FilmScribe, FluidMotion, FXDeko, HIIP, HyperSPACE, HyperSPACE HDCAM, IllusionFX, Image Independence, iNEWS, iNEWS ControlAir, Instinct, Interplay, Intraframe, iS9, iS18, iS23, iS36, ISIS, IsoSync, LaunchPad, Lightning, Lo-Fi, Magic Mask, make manage move | media, Marquee, Matador, Maxim, MCXpress, Media Browse, Media Composer, MediaDock, MediaDock Shuttle, Media Fusion, Media Illusion, MediaLog, Media Reader, Media Recorder, MEDIArray, MediaShare, MediaStream, Meridien, MetaFuze, MetaSync, MicroTrack, MissionControl, MovieBox, NaturalMatch, Nearchive, NetReview, NewsCutter, Nitris, OMF, OMF Interchange, OMM, Open Media Framework, Open Media Management, PCTV, Pinnacle MediaSuite, Pinnacle Studio, Pinnacle Systems, ProEncode, Pro Tools, QuietDrive, Recti-Fi, RetroLoop, rS9, rS18, SalesView, Sci-Fi, ScriptSync, SecureProductionEnvironment, Show Center, Sound Designer II, SPACE, SPACESHift, SpectraGraph, SpectraMatte, Sputnik, SteadyGlide, SubCap, Symphony, SynchroScience, TARGA, Thunder, Thunder Station, TimeLiner, Torq, Trilligent, UnityRAID, Vari-Fi, Velvet, Video RAID, Video Slave Driver, VideoSPACE, Xdeck, 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.

Avid MetaFuze v1.3 Readme • 0130-30024-01 Rev. C • March 2009

This document is distributed by Avid in online (electronic) form only, and is not available for purchase in printed form.

