



Version 1.4.1 Release Notes

January 16, 2009

This Release Notes document describes the key product features, enhancements, bug fixes and known issues for hardware and software systems utilizing Pipeline, Pipeline Quad and Pipeline HD Dual hardware, and Pipeline software. This release consists of Pipeline Control for Mac OS X software revision 1.4.1.1 and Pipeline HD Dual firmware revision 1.4.42065. Included in this document are installation and update instructions; system requirements; and, technical support contacts.

Key new features:

- Updated Pipeline Control application for Mac OS X
 - Fixes spurious incomplete frame errors
 - Improved video Preview algorithm
- Updated Pipeline HD Dual firmware
 - Fixes bug where extended periods of all white or black occasionally caused time out
 - Fixed bug preventing 720p23.976 from working
 - Improved Uncompressed SD 8 bit codec

Pipeline v1.4.1 release consists of:

- Pipeline for OS X installer – v1.4.1.1
- Pipeline HD Dual firmware – v1.4.42065

Known Issues:**General**

- **Pipeline HD Dual** systems do not currently support
 - Confidence monitoring
 - Playout
 - Log/Capture
 - Pipeline Porter and plug-in for Final Cut Pro software
- Some gigabit switches, such as the SMC TigerSwitch 8624T, are unable to handle exports reliably. If you encounter a problem during export, characterized by a notification that the Pipeline encountered an error and had to abort, please notify support, and include the manufacturer and model of the switch.
- To prevent inadvertent Pipeline communication interruptions, set *Start Screen Saver* slider to “Never”

Pipeline OS X scheduling application (v1.4.1.1)

- Requires Mac OS X 10.5.5 or later
- Requires Pipeline device firmware rev1.3.40838 or later
- Requires QuickTime 7.5.5 or later
- Requires Video card with OpenGL support
- Support for Avid DNxHD requires Avid LE codec installation. Download codec from:
 - <http://www.telestream.net/application-content/pipeline/avid-codec/>
- Previewing Video during capture can consume excess CPU cycles that can cause frame loss. It is recommended that in most situations Preview Video be turned off during capture.

Pipeline Porter and plug-in log/capture tool (v1.4.1.1)

- Pipeline Porter and plug-in for Final Cut Pro are compatible with **SD codecs** only
 - They provide no HD log and capture support
- Compatible with Mac OS X 10.5 (Leopard) only
- ProRes 422 preview requires QuickTime v7.5.5 or the Apple Pro Res codec download

- Opening multiple copies Porter on one system is not supported
- **G4/G5 PPC systems are no longer supported**
- Does not support editable open QuickTime files
- Clip thumbnail image occasionally shows system desktop

Pipeline HD Dual firmware (v1.4.42065)

- No playout support
- Codecs currently NOT supported
 - Uncompressed SD 10 bit
 - DVCPro 50

FlipFactory support

- FlipFactory Pipeline Control applet does not support **Pipeline HD Dual**
- No direct **Pipeline HD Dual** support
- No **Pipeline HD Dual** TIFO file support
- No **Pipeline HD Dual** EDL support

Installation and Update instructions

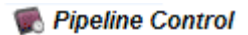
Note: Pipeline Control v1.4.1 software requires that your Pipeline device's firmware be upgraded to v1.3 or later. See instructions below.

Pipeline OS X software (v1.4.1.1):

- Run **Pipeline Control.pkg** and follow the on screen instructions
 - The installer will place the **Pipeline Control** application and **Pipeline Porter** log and capture tool into the user's application folder.
- To run the Pipeline Control application select **Pipeline Control** from the applications folder
- To run the Pipeline Porter log and capture tool select **Pipeline Porter** from the applications folder
- The **Pipeline plug-in** can be opened directly from Final Cut Pro or Episode v5.0
- Download and read the **Pipeline v1.4 User Guide**



Pipeline Control.pkg



Pipeline Control



Pipeline Porter

Pipeline Application reference:

<i>Pipeline Control for Mac OSX feature matrix</i>	<i>Pipeline scheduling application</i>	<i>Pipeline Porter and Plug-in (Log/Capture)</i>
Supports Pipeline HD Dual	X	
Supports Pipeline SC and Quad	X	X
24 hour recurring record and playout	X	
Log/Capture with deck control		X
Open directly from Final Cut Pro		X
Open directly from Episode Desktop		X
Edit while capture	X	
Transcode while capture	X	
Import Pipeline EDL files		X
Import/Export Final Cut Interchange XML files	X	X
Create QuickTime mov directly	X	X
Creates TIFO files directly	X	
Standard Definition Codecs	X	X
Standard Definition/High Definition Codecs	X	

Fig. 1.0 - Pipeline Control OS X application software feature matrix

Follow the installation instructions contained in the [Pipeline v1.4 User Guide](http://www.telestream.net/telestream-support/pipeline/support.htm) located on the Pipeline support web site at: <http://www.telestream.net/telestream-support/pipeline/support.htm>

General System Requirements

- Intel Core 2 Duo, Intel Quad Core CPU or greater
- Operating System:
 - Mac OS X Version 10.5 (Leopard) or newer (Tiger – Mac OS X 10.4 or earlier is *not* supported)
- GigE or faster Ethernet adapter
- Video card supporting OpenGL
- QuickTime Version 7.5.5 or newer
 - With ProRes decoder component
- Final Cut Pro Version 5.0.1 or newer is required when using Pipeline plug-in

System requirements for Pipeline/FlipFactory

- FlipFactory v6.0 with Update Packs 1-5 or FlipFactory v6.1
 - Concurrent Pipeline ingest streams may vary depending on CPU and disk speeds
 - Recommended server spec:
 - Dual 2.3Ghz (or higher) Intel Quad Core CPU
 - Dedicated RAID-0 media storage
 - 2GB RAM
- Bonjour for Windows

Network and Hard Disk Performance Requirements (per stream)

- DV/DVCPPro – Network throughput 35Mbps; disk write speed 4.4MB/s
- IMX30 – Network throughput 43Mbps; disk write speed 5.3MB/s
- IMX40 – Network throughput 56Mbps; disk write speed 7.0MB/s
- IMX50/MPEG2 – Network throughput 67Mbps; disk write speed 8.3MB/s
- ProRes422 SQ (SD) - Network throughput 58Mbps; disk write speed 7.3MB/s
- ProRes422 SQ (HD) - Network throughput 160Mbps; disk write speed 20MB/s

- ProRes422 HQ (HD) - Network throughput 240Mbps; disk write speed 30MB/s
- DNxHD 145 - Network throughput 160Mbps; disk write speed 20MB/s
- DNxHD 220 - Network throughput 240Mbps; disk write speed 30MB/s
- DVCPProHD - Network throughput 135Mbps; disk write speed 16.5MB/s

Suggested Hardware Configurations* (ingest only Standard Definition)**

Single channel system

Intel Dual Core 1.83Ghz CPU, 2GB RAM, SATA 1.5GBs 7200 RPM media storage drive (separate from OS drive)

Dual channel system

Intel Dual Core 2.0Ghz CPU, 2GB RAM, minimum 2 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Four channel system

Intel Quad Core (4 core) 2.33 GHz CPU, 4GB RAM, minimum 3 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Eight channel system

Intel Dual Quad Core (8 cores) 2.33 GHz CPU, 6GB RAM, minimum 4 drive RAID-0 SATA 3GBs 7200 RPM media storage partition (separate from OS drive)

Suggested Hardware Configurations* (ingest only High Definition)**

Single channel system

Intel Quad Core 2.4Ghz CPU, 4GB RAM, minimum 2 drive RAID-0 SATA 7200 RPM media storage drive (separate from OS drive)

Dual channel system***

Dual Intel Quad Core (8 cores) 3.0 GHz CPU, 6GB RAM, minimum 4 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

Four channel system***

Dual Intel Quad Core (8 cores) 3.0 GHz CPU, 8GB RAM, minimum 8 drive RAID-0 SATA 1.5GBs 7200 RPM media storage partition (separate from OS drive)

***All systems assume media storage local to the host system with adequate storage to support 24 hours of content at the chosen format)**

****For edit while ingest and transcode while ingest workflows an additional disk buffer cache drive system is required.**

*****Viewing multiple HD preview streams can consumes high levels of CPU which may cause dropped frame. It is recommended that preview be turned off for multiple stream workflows**

Pipeline Support

For Pipeline technical support, visit the Pipeline support web site at <http://www.telestream.net/telestream-support/pipeline/support.htm>.