

Product: RadeonHD v2 series

(with Digital Composite Video support)

Author/Company: A-EON Technology
Developer: Hans de Ruiter

Version: Version 2.4



Product/Description & Overview:

Version 2.4 is the next evolution of the RadeonHD driver for AmigaOS 4.1. In addition to all the features contained within Version 1.2 of the driver it introduces the AmigaOS to hardware accelerated video playback by using the graphics card's own GPU to deliver hardware accelerated digital composite video which greatly improves video performances and playback. The driver allows developers to use YUV bitmaps with CompositeTags() which employs a process similar to "textured video" but with all the power and flexibility that CompositeTags() provide, including alpha blending and vertex arrays, etc. The GPU accelerates YUV to RGB conversion allowing the CPU more time for video decoding. YUV420p bitmaps are also 37.5% the size of 32-bit ARGB bitmaps of the same dimensions, so there's less data to copy to the graphics card. Composite Video has a number of advantages over textured and overlay video. It can render an unlimited number of surfaces and can perform alpha blending instead of chromakeying which can be used for advanced video effects. Unlike overlay which is restricted to 1-2 surfaces and does not respect transparency, Composite Video is fully compatible with composited screens. Better still it allows the use of alpha blending/compositing and can be used to create complex video effects like rotate, warp and even project video.

Key Features:

The RadeonHD 2.x drivers has the potential to be used for much more than just faster video playback.

- It can render an unlimited number of surfaces
- Can perform alpha blending instead of chromakeying which can be used for advanced video effects
- Rotate, warp and project video
- Can use alpha blending/compositing for cross-fade between video files & other effects
- Full 1080p Video playback with supported video files
- Support for the latest generation of AMD Radeon Rx graphics cards from the R5, R7 and R9 series**

Credits:

Developer: Hans de Ruiter

System Requirements:

Minimum: AmigaOS4.1 update 6, RadeonHD 4xxx card

Recommended: AmigaOS4.1 - Final Edition, RadeonHD gfx card (**refer to attached list for supported cards on next page).



Supported Radeon graphics cards:

RadeonHD Series:

Most graphics cards in the RadeonHD series are supported including:-

- R520 (X1300-X1950 series)
- R700 (HD4000 series)
- Evergreen (HD5000 series)
- Northern Islands (HD6000 series)
- Southern Islands (HD7000 series)

Radeon Rx Series:

Added support for the latest generation of AMD Radeon Rx graphics cards from the R5, R7 and R9 series:

- Radeon R5 230/235/235X (GPU = Caicos XT)
- Radeon R7 250X (GPU = Cape Verde XT)
- Radeon R9 255 (GPU = Cape Verde PRX)

- Radeon R7 265 (GPU = Pitcairn Pro)
- Radeon R9 270 (GPU = Curaçao Pro - rebranded/updated Pitcairn GPU)
- Radeon R9 270X (GPU = Curaçao XT - rebranded/updated Pitcairn GPU)

- Radeon R9 280 (GPU = Tahiti Pro)
- Radeon R9 280X (GPU = Tahiti XR2 - Tahiti XT GPU)

WARNING:

The following graphics cards from the Southern Islands series GPUs are not currently supported:-

- Radeon HD 7790: GPU = Bonaire XT
- Radeon R7 260: GPU = Bonaire
- Radeon R7 260X: GPU = Bonaire XTX

NOTE: There are differences and incompatibilities between cards from supplied by different manufacturers. Check with A-EON or the Amiga forums for information about Radeon graphics cards that have been tested and are know to work.