

# How to : Install the SAGA RTG Driver



## Overview

Jason Mac Mullan kindly develops and maintains the SAGA RTG Driver to be used with the Digital Video Out of the Vampire boards. See [SAGA Video Core](#) article for more technical informations. The driver is still in a beta stage.

## 1) Install the required files



### 1.1) Install Picasso96 RTG System

1. Download the free [Picasso96](#) archive.
2. Use the provided installer and follow the instructions carefully.

### 1.2) Install SAGA RTG Driver

1. Download the latest [SAGADriver LHA Package](#) archive.
2. Use the provided installer and follow the instructions carefully.

### 1.3) Install Universal Modeline Calculator

1. Download [UMC](#) from Aminet.
2. Copy the file umc/umc to C : umc

### 1.4) Check for Installed files

1. Reboot your computer
2. Check if the following files are installed in the System drive :

Filename	>Version <i>FileName</i> FULL
C :SGDiag	SGDiag 0.9b (16/05/2016) © The AROS Development Team

Filename	>Version FileName FULL
C:umc	<i>no information</i>
DEVS:Monitors/SAGA	<i>no information</i>
DEVS:Monitors/SAGA.info	<i>no information</i>
DEVS:Picasso96Settings	<i>no information</i>
LIBS:Picasso96/emulation.library	emulation.library 40.389 (19/09/1999)
LIBS:Picasso96/fastlayers.library	fastlayers.library 40.48 (16/03/1998)
LIBS:Picasso96/rtg.library	rtg.library 40.4029 (26/10/2014) *
LIBS:Picasso96/saga.card	saga.card 0.9 (05/05/2016)
LIBS:Picasso96API.library	Picasso96API.library 2.300 (19/09/1999)
SYS:Prefs/Picasso96Mode	Picasso96Mode 1.560 (03/06/2001)

\* The content of the original picasso96.lha archive remains unchanged, conform the license. It's legally hosted for preservation reasons. You can update the RTG.library yourself from other sources for stability improvements.

## 2) Configure the SAGA monitor

The SAGA-core use the FastRAM of the Vampire Board to display the video on the screen. The driver allows you to configure how many of the FastRAM will be reserved for the Video FrameBuffer. The default is 8MB. This means, after driver initialization, your available FastRAM is ( 128MB - 8MB ). You can configure this behaviour by adding a tooltype to the DEVS:Monitors/SAGA.info file. This feature allows you to save unused memory by configuring the video memory size that fits your needs. Let's say someone will never use a bigger screen than 960\*540\*24bits, he will then need only 1.5MB.

**You can easily calculates the video memory size using the following formula :**

(Width\*Height\*BytesPerPixel)  
 where BytesPerPixel is 1 for 8bits, 2 for 15/16bits, 3 for 24bits, and 4 for 32bits.

### ToolType syntax :

VideoMemSize=xxxxx  
 where xxxx can be bytes, xxxxK (kilobytes), or xxxxM (megabytes)  
 K, M are not case-sensitive.

### Examples

VideoMemSize=8M  
 VideoMemSize=4M  
 VideoMemSize=600K

### Remark

The SYS:Prefs/Picasso96Mode tool will automatically hide (disable) all the resolutions that needs more memory than the memory allocated by the SAGA driver.

## SAGA RTG Driver Sources



Under MIT License driver sources :

- [saga.card host](#)
  - [saga.card history](#)
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## Roadmap



1. Still in beta testing, please reports any problems you find to the team.
  2. Need deeper implementation of Picasso96 subsystem, currently based on AROS
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## Additional informations



- Forum : [SAGA RTG Driver](#)
  - Video : [Vampire RTG presentation](#)
  - Video : [How to make your own resolution](#)
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## Additional tools



- [Offical Picasso96](#)
  - [Unoffical Picasso96](#)
  - [Universal Modeline Calculator](#)
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## Additional hardware



### HDMI adapter

Such adapters helps to put the Digital Video Out connector at bottom of the Amiga case.



### Digital Video Out Amplifier adapter

Such amplifiers helps to remove noises / snow that can appears when using High resolutions on some monitors / TV.



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