

Default

COLLABORATORS

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REVISION HISTORY

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Chapter 1

Default

1.1 ArtecScan Documentation

ArtecScan V1.11 - the Scannerdriver for
Artec Viewstation A6000C Plus
and
Artec Viewstation AT3
Scanners

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Copyright	Copyright
Introduction	ArtecScan features
Requirements	Systemrequiremensts
Installation	How to install ArteScan
Usage	How to use this program
Tooltypes	Tooltypes/Preferences
History	revision history
Known Bugs	Bugs?? Where...??!?
Future	planned features
Credits	Thanks go to...
How to register	Sharewareinformation
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1.2 Copyright

Copyright
=====

ArtecScan is Copyright (c) 1998 Stefan Robl.

The archive of the unregistered version of ArtecScan
may be freely distributed as long as it remains unchanged.

Keyfiles of registered users must be installed and used on
one computer at a time and it is forbidden to spread it to others.

Liability
=====

ArtecScan was successfully tested on several Amiga configurations. The autor of ArtecScan however is not responsible for any damages of your hardware or software that may be caused by this program.

With your signature on the orderform and the registration fee you accept these conditions.

1.3 Introduction

Introduction
=====

ArtecScan is a driver for Artec-Scanners. Supported types are:
Artec Viewstation A6000C Plus and Artec Viewstation AT3.

The program itself works incredibly fast (it is even faster than the PC-software included with the A6000C+...) and the usage is very easy.

Some highlights:

- support of Artec Viewstation A6000C Plus and AT3
- displays on Workbench or a Public-Screen, if it runs on in CyperGraphX-mode with screendepth >15Bit.
- support of Amigas with OCS, ECS or AGA
- display opens on 15,16 or 24 Bit (depends on graphicscard) custom CyberGraphX-screens
- you can already see and apply changes of gamma, brightness and contrast in previewscan
- preview is calculated and shown in realtime while scanning
- supports all internal resolutions from 50 to 600 dpi of the A6000C+ and AT3 in color and gray
- memorysensitive - it allocates as much memory as it needs to work.
- incredible high scanning speed (with 68030 or higher it scans without breaks - depends on SCSI-Controller used)
- supports PPM- and PGM-format
- automatically saves last changes at end of program

1.4 Systemrequirements

Systemrequirements =====

min. configuration:

- Amiga with AmigaOS 3.0 oder higher installed
- min. 2 MB RAM, better 8MB oder more
- SCSI-Controller with Artec Viewstation A6000C+/AT3 conected

ideal configuration:

- 68040 or 68060 CPU
- AmigaOS 3.1 and a Workbench running in Highcolor (15/16Bit)
- a good graphicscard (e.g. CyberVision64) with CyberGraphX running
- 32 MB RAM
- 500MB or more free space on HD... neccessary for some 'little' pictures... ;)

1.5 Installation

Installation =====

1. Only drag the ArtecScan-program(icon) to the dedicated location.
2. Adjust settings to fit your needs and configuration in the Tooltypes an.
3. Be sure that your Amiga is running CyberGraphX

1.6 Usage

Usage =====

The usage of ArtecScan is actually selfexplaining.

In the right half of the window you can see the previewscan with a red rectangle to choose the scan-area.

In the left windowhalf you can see all switches, sliders and informationa you need to handle the program.

Short desription:

- Mode To select the scan-mode. At the moment there is only support for "24Bit color" (16.8M Colors) and "8Bit gray" (256 shades of gray).
1Bit B/W and Halftone will be available in coming versions ↔
- Filter Only available in "8Bit gray" scanmode. With this you can

- select the color the scanner is blind for.
 For an example: choosing "red" makes all colors of red disappear from the picture. This makes sense, if you want to scan black text on red background, but you only want to get black text on white background.
- DPI
 Select the resolution you want to scan in.
 Possible values: 50, 100, 200, 300 and 600 dpi.
 - Gamma
 With this slider you are able to achieve a highquality brightness correction of the picture.
 Using this method, the picture contrast will not be changed so much than by using the standard brightness.
 Negative values result in a darker picture, positive gamma in brighter data.
 A gamma of 0 has no effect on the picture.
 - Brightness
 "standard" brightness correction.
 Disadvantage to gamma: all pixels are changed equally so that the contrast gets lost the higher the brightness is set.
 Negative values result in a darker picture, positive values in brighter data.
 A brightness of 0 has no effect on the picture.
 - Contrast
 changes the picture contrast.
 Negative values result in lower contrast, positive values in higher contrast.
 At a value of 0 the contrast remains unchanged.
 - Left, Top, scanarea Width and Height
 This fields show the position and dimension of the that has been selected in the previewscan. The scanarea is selectable with the red rectangle in the preview-area.
 - Correctioncurve picture
 With the help of this you can see the changes to the you made with gamma, brightness and contrast.
 - Width (Pixel)
 Width of the picture to be scanned in pixel.
 - Height (Pixel)
 Height of the picture to be scanned in pixel.
 - Memory usage
 Shows the size, the picture will occupy on your harddrive.
 Note: 1kByte = 1024Byte; 1MB = 1024kB = 1024*1024 Byte
 - State
 Informs you on the current state of the program.
 (e.g. Ready, Scan, Calibrate, etc.)
 - Scan
 There you
 After pressing this button, a file requester opens up.
-

can specify a filename for the picture. At the moment only two
fileformats are supported. PPM for color and PGM for
grayscale.

Most graphicprograms support these fileformats.

After your choice the filename the scan starts.

- | | |
|-----------|--|
| - Prescan | Pressing this button will start a color-preview-scan. |
| - Abort | Only active during scan process and during filesave.
The current process will be aborted immediately.
An (incomplete) created picturefile will be deleted. |

To eliminate unprecise results of the CCD-Line and/or the Scanlight the scanner is recalibrated before every scan. The calibrating process speeds up after the scanner is calibrated 2 or 3 times.

To quit the programm use the closegadget on the topleft.

1.7 Tooltypes

Tooltypes/Preferences
=====

The following Workbench-Tooltypes are supported:

```
Device=<SCSI_Device_Name>    Use this to tell ArtecScan, which SCSI-Device your  
                              scanner is connected to.  
On Amiga 3000 you might want to use: "Device=scsi. ←  
                                device"  
CyberStorm-SCSI-Modul: "Device=cybscsi.device"  
CyberStrom-PPC-Board: "Device=cybppc.device"
```

Unit=<UnitNr.> The SCSI-id of your scanner.

```
ScannerType=<A6000C+/AT3/    Determines the scannermodel connected.
      Unknown>              A6000C+ : Artec Viewstation A6000C Plus
                             AT3      : Artec Viewstation AT3
                             Unknown  : every other Scanner, experimental only!!!!
```

[illegible]

Note: Upper-/lowercase writing of the public screen name is very important.

Use "PubScreen=Workbench" to run ArtecScan on Workbench with a depth of 15Bit or more. ↵

ScreenType=<Best/CGX/ArtecScan:AGA/OCS> ↵

With this you can specify the displaymode of ↵

Best: ArtecScan tries to open the best screenmode available (first PubScreen, then CGX, AGA and OCS) ↵

CGX : opens an own CyberGraphX-Screen

AGA : opens on a 6Bit grayscale (64 colors) Multiscan-Screen

OCS : opens on a 4Bit grayscale (16 colors) HiresLaced-Screen

If the requested mode is not available, ArtecScan tries to use the next possible displaymode.

Language=<English/Deutsch> Use this to 'localize' ArtecScan. ↵

Possible: Language=Deutsch, Language=English (equal to ↵

"(Language=Deutsch)").

Default is english -> "(Language=Deutsch)"

MaxUsedMem=<Byte> ↵

With this tooltype you set the max. memory ArtecScan may allocate. The smaller this amount is the slower the scan will be. Because the picturedata has to be written to disk more often. ↵

It only makes sense if you put in as much memory as possible. The program will allocate only the amount it needs to work with. ↵

The unit of the parameter is Byte.

A value of 60000000 means 62914560/(1024*1024)=60MB

1.8 History

History
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01.03.1998	V1.00	- First public release
06.03.1998	V1.01	- Silly bug fixed. ArtecScan always searched for the A6000C Plus. AT3 should now work properly. (Reported by Anders Drejer. Thanks Anders!)
07.03.1998	V1.10	- Bug in localisation fixed
		- AGA and OCS/ECS-Support added (Tooltype: ScreenType)
		- ScannerType-Tooltype added
		- ArtecScan can now be started from shell

08.03.1998 V1.11 Two little and silly bugs removed:
- Start from the Shell ist now always possible
- ArtecScan now "needs" no cybergraphics.library
on OCS/AGA-Amigas anymore... :)

1.9 Known bugs

Bugs
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- Yet I could not find any bugs. But it is possible that some SCSI-Controller may have problems to operate scanner-devices.

If you discover some yet unknown bugs, please contact the Autor .

1.10 Future

Future improvements
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- Bugfixes (are there bugs?)
- Support of other scanner-devices (other vendors).
[Send me programming docs of other scanners and i will see...]
- support of the IFF-formats
- probably PowerPC-Port (speedincrease?)

1.11 Thank you

Thanks:
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Thanks go to:

- Artec for for their quick support and their excellent scanners
 - the CyberGraphX-Team for this brilliant driver
 - phase5 for the PowerPC-Boards and the CyberVision64
 - Roland Daubner, the best Beta-Tester ... ;))
 - my Brother Christian for the english translation
-

1.12 Registration

Registration
=====

ArtecScan is fully functional. In the unregistered however, there are interfering lines in the scanned imagedata.

After registration you will receive a keyfile (ArtecScan.key), which removes this interferences.

All further versions of ArtecScan, which will be also available via AmiNet, will automaticall accept this Key.

The Sharewarefee is 40DM (germany) or US\$ 30-Dollar (other countries).

To register yourself simply fill in the including orderform and send it to me .

1.13 Autor

Autor
=====

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Improvements, bugreports, suggestions etc. are welcome.

I would be glad if you send me specifications on several imagefileformats

Very urgent: I'm searching for documents on how to program devices and handlers (especially filesystems!!!) on the Amiga in C/C++.