

ScanTrax

COLLABORATORS

	<i>TITLE :</i> ScanTrax		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

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Chapter 1

ScanTrax

1.1 ScanTrax 1.2 1997 © Klaus Krause.

Welcome to 'S-c-a-n-T-r-a-x' V1.2 Copyright © 1997 Klaus Krause.

ScanTrax is a scanner driver for scanners of Hewlett-Packard series.

1. Copyright
 2. Systemrequirements
 3. Features
 4. Descriptions
 5. ToolTypes
 6. AmigaRexxPort
 7. Installation
 8. Registration
 9. Tips and tricks
 10. History
-

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1.2 "

Copyright:

ScanTrax is copyright © 1997 by Klaus Krause.

ScanTrax is SHAREWARE and may only be copied and passed in unchanged state as well as without profit!

Shareware meant for this program:

Over a period of a month, the program may be tested.

If the user should pleased after the test phase at the program, he pays the ShareWare-Charge to the author.

With not pleased, he extinguish the program complete.

The following is to be considered fundamentally:

It is not allowed to modify the program or the documentation.

To add other files into the original archive of ScanTrax is not allowed.

The author undertakes no liability for damages or mistakes that by this program caused may be.

It is not guaranteed, that this program works on all Amiga computers, all scanners and SCSI adapters.

The author reserves the right for itself to be able to make basic changes to the program and the documentation.

1.3 "

Features:

The program offers the following services:

- * The size of the pictures to be made is independent of the size of the free RAM-memory.
- * The following graphics formats are supported:

Format

Compression

PNG	(Personal-Network-Graphics)	permanent
JPEG	(Joint Picture Experts Group)	permanent
TARGA		no one
IFF-DEEP	(DEEP pixels)	no one
IFF-ILBM	(InterLeavedBitMap)	selectable

It applies to all formats:

Color is stored fundamentally in 24Bit.

Black/white or grey scale pictures can be stored in 8 or 24 bits.

- * ScanTrax is controllable via AmigaRexx.
- * ScanTrax is interpreted as Commoditie.
- * Optional preview in color or grey scales.
- * CyberGraphX is supported.
- * Brightness, contrast, color saturation, gamma and sharpness is freely ↔ adjustable.
- * ScanTrax is localized.
- * ScanTrax is 100% written in the language 'C'.

1.4 "

System requirements:

Scanner

The scanners of the series ScanJet IIcx, IIIc, IVc, IIP, IIIP, IVp should work without problems.

The ScanJet Vp should work partially.

(ScanTrax only starts with scanner!)

SCSI interface

The program was tested with the following host adapters:

GVP series II gvp SCSI device,

A3000/4000T SCSI device,

FastLaneZ3 z3 SCSI device (Version 5.1034 or higher required).

Operating system

Amiga OS3.0 or higher.

RAM

2 MB of free storerooms.

Hard disk

For a reasonable operation, at least 10 MB should be available.

CPU

Motorola 68020 or higher. Floating Point Unit (FPU) 68881/82.

Computer

Every Amigas whom fill the upper criterias.

Graphic card

For a reasonable operation, a graphic card with CyberGraphX is required!
(ScanTrax can also be used without graphic card.)

1.5 "

ToolTypes:

1. Commoditie
2. SCSI-interface
3. Programspecifics

1.6 "

ToolTypes/ Commoditie:

CX_POPUP

Template: CX_POPUP=YES/NO

At the start of ScanTrax, this ToolType controls whether ScanTrax remains in the background. ↔

The GUI of ScanTrax does not appear only if 'NO' is indicated as a argument.

CX_PRIORITY

Template: CX_PRIORITY=number

Here is to be indicated, with which priority ScanTrax runs as Commoditie.
'0' are used without parameters.

CX_QUITKEY

Template: CX_QUITKEY=key

Here is to be indicated, with which key combination ScanTrax should be ended.

CX_POPKEY

Template: CX_POPKEY=key

If this ToolType is defined, as a result of a key combination, ScanTrax can ↵
display his GUI.

DONOTWAIT

Template: DONOTWAIT

Commodities are placed normally in the startup-drawer on Workbench.
From there, all placed programs where started during the boot-process.
If the codeword 'DONOTWAIT' is indicated, the Workbench does not wait,
until the program has ended.

1.7 "

ToolTypes/

SCSI-interface:

SCSI_DEVICE

Template: SCSI_DEVICE=scsi.device

The device name of the SCSI adapter is indicated here.

SCSI_UNIT

Template: SCSI_UNIT=number

ScanTrax is indicated here, to which SCSI-ID the scanner is adjusted.

SCSI_LUN

Template: SCSI_LUN=number

Since the scanner forms only always a logical-unit, here must be '0' specified.
(This ToolType is not urgently required.)

SCSI_BOARD

Template: SCSI_BOARD=number

If several SCSI adapters are fit in the system, the adapter can here
are selected. (This ToolType is not urgently required.)

1.8 "

ToolTypes/

Programspecifics:

BUFFER_SIZE

Template: BUFFER_SIZE=number

The buffer for data of every kind is determined here.
The program-internal minimum value is 1.000.000 bytes.
Less values are ignored.

TEMPDIR_CONVERT

Template: TEMPDIR_CONVERT=pathname

Here is indicated, where temporary-files are to be placed.
It recommends itself to place this directory onto the hard disk.

TEMPDIR_PREVIEW

Template: TEMPDIR_PREVIEW=pathname

Here is indicated, where preview-files are to be placed.
On slow hard disks, this path can also show onto RAM.

SUFFIX_JPEG**SUFFIX_PNG****SUFFIX_IFF_DEEP****SUFFIX_IFF_ILBM****SUFFIX_IFF_TARGA**

Template: SUFFIX_....=name

A file identifier is indicated here. In the case with activated suffix automatic,
this identifier appended at the filenames end.
The length of 'name' is limited on 9-signs.

SCANJET_5P

Template: SCANJET_5P

This version of ScanTrax requires with use of a ScanJet 5p, this ToolType.

1.9 "

AmigaRexxPort:

1. Introduction
2. Read commands
3. Write commands
4. Action commands

1.10 "

AmigaRexxPort/
Introduction:

The port name for ScanTrax is determined on the names 'SCANTRAX'.

All ARexx functions give back a result in the variable 'RC'.

RC = 0 OKAY Function processed errorfree
RC = 5 WARNING File can not be written
RC = 10 ARGUMENT The number of arguments is not right
RC = 15 PARAMETER Parameters are outside of the domain

1.11 "

AmigaRexxPort/
Read commands:

GET_CONTRAST
Template: GET_CONTRAST

In the variable RESULT, the contrast value is given back.

GET_INTENSITY
Template: GET_INTENSITY

In the variable RESULT, the brightness value is given back.

GET_COLOR_RED
GET_COLOR_GREEN
GET_COLOR_BLUE
Template: GET_COLOR_XXX

In the variable RESULT, the color saturation value is given back.

GET_GAMMA
Template: GET_GAMMA

In the variable RESULT, the gamma value is given back.

GET_SHARPEN
Template: GET_SHARPEN

In the variable RESULT, the sharpness value is given back.

1.12 "

AmigaRexxPort/
Write commands:

SET_MEASUREUNIT

Template: SET_MEASUREUNIT number

This function determined with which parameters the function SET_WINDOW works.

The following values are defined:

Number = 0 -> data occur in centimeters (cm)

Number = 1 -> data occur in inch

Number = 2 -> data occur in points (300 points = 1 inch)

SET_WINDOW

Template: SET_WINDOW X-position Y-position X-width Y-height

This function sets the position and size of the scan window.

The parameters can certain through the function SET_MEASUREUNIT,
are indicated in centimeters, inches or dpi.

For a scan window of 10cm*10cm with an offset of X=12.3cm and Y=4.55cm
it is the following calling: SET_WINDOW 4.55 10 10

SET_RESOLUTION

Template: SET_RESOLUTION X-Resolution Y-resolution

This function determines the Scanresolution in dpi.

SET_SCALE

Template: SET_SCALE X-Scale Y-Scale

This function determines scaling which is carried out at the scan window.
Given preset is 100(%) .

SET_AUTOSUFFIX

Template: SET_AUTOSUFFIX number

This function turns on/off the automatic-suffix for filenames.

Number = 1 -> automatic-suffix turned on

Number = 0 -> automatic-suffix turned off

CUSTOM_PRESET

Template: CUSTOM_PRESET

The ARexxpart of the program uses own basic settings.

This function retypes this with the current program settings.

It is recommended that this function be used only for the ARexx script ↔
development.

SET_CONTRAST

Template: SET_CONTRAST number

This function sets contrast.
Number may take values of -100% here to +100%.

SET_INTENSITY
Template: SET_INTENSITY number

This function sets brightness.
Number may take values of -100% here to +100%.

SET_COLOR_RED
SET_COLOR_GREEN
SET_COLOR_BLUE
Template: SET_COLOR_XXX number

These functions may put the colour saturation.
Number may take values of -100% here to +100%.

SET_GAMMA
Template: SET_GAMMA number

This function sets the gamma value.
Number may take values of 0.01 to 4.99 here.

SET_SHARPEN
Template: SET_SHARPEN number

This function sets the sharpness.
Number may take values of 0% here to 100%.

SET_GFXMODE
Template: SET_GFXMODE number

This function sets the graphics mode with that the picture is scanned.
Number = 0 -> black/white Thresholded
Number = 1 -> white
Number = 2 -> black
Number = 3 -> black/white Dithered
Number = 4 -> grey scales 4Bit
Number = 5 -> grey scales 8Bit
Number = 6 -> color 24Bit
Number = 7 -> color Thresholded
Number = 8 -> color Dithered
Number = 9 -> color Chunky Thresholded
Number =10 -> color Chunky Dithered

SET_PROGRESS
Template: SET_PROGESS number

This function turns the display of a progress window on- or off.
Number = 1 -> progress window are represented
Number = 0 -> progress windows is not represented

SET_JPGQUALITY
Template: SET_JPGQUALITY number

This function determines the quality of the JPEG picture to be made.
Greater values make better pictures and bigger files.
The default value for JPEG is 75!
Number can take values between 1 and 100.

SET_COMPRESSION

Template: SET_COMPRESSION number

This function determines whether pictures are packed.
However, this switch only has a function in the case of ILBM pictures.

Number =1 -> on compressing
Number =0 -> off compressing

SET_FORCE24BIT

Template: SET_FORCE24BIT number

This function determines whether pictures are always stored with 24Bit.

Number = 1 -> all pictures become stored with 24Bit
Number = 0 -> grey scale pictures are stored in 8Bit, all others into 24Bit

1.13 "

AmigaRexxPort/

Action commands:

DISPLAY_HIDE

Template: DISPLAY_HIDE

This function conceals the graphics user interface.

DISPLAY_SHOW

Template: DISPLAY_SHOW

This function shows the graphics user interface.

SCAN

Template: SCAN

This function introduces the scan event.
The scanned data are stored in a temporary file.

SAVE_PICTURE

Template: SAVE_PICTURE format filename

This function stores a picture.
The data for this come from the temporary file.

Format determines what kind of a graphics format should be made:
Format = 0 -> PiNG

```
Format = 1 -> TARGA
Format = 2 -> JPEG
Format = 3 -> IFF-DEEP
Format = 4 -> IFF-ILBM

QUIT
Template: QUIT

This function ends ScanTrax.
```

1.14 "

Descriptions:

1. Introduction
2. Start and End
3. User windows
4. Mouse pointer

1.15 "

Descriptions/
Start and end:

Start ScanTrax:

- a) By double-click onto the program icon.
- b) Within a shell window.
Because some important presettings are be determined in ToolTypes of the ↔
program icon,
parameter specifications in the shell are not planned.

End ScanTrax:

- a) 'End' via the menu entry.
- b) With the program 'Exchange' from Amiga International.
- c) Through a CTRL_C or CTRL_E signal to the program task.
- d) Through a push of a selfdefined HotKey. (See ToolType: CX_QUITKEY)
- e) Through the ARexxcommand "QUIT".

1.16 "

Descriptions/
User windows:

1. Main window
2. Area window
3. Preferences window
4. Information window

1.17 "

Descriptions/
Mouse pointer:

The frame announced in the preview window, can be modified through the mouse, in ↔ position and size. To recognize whether the frame can moved with the mouse, the appearance of the mouse pointer changes.

1.18 "

Descriptions/
Introduction:

Purpose of ScanTrax it is, to make display data of a scanner available. For this, the display data are provided in useable pictureformats.

1.19 "

Descriptions/
User windows/
Main window:

This window is always usually opened. In case, ScanTrax work in the background, the window can bring again to the display with the aid of the program "Exchange" ↔ or over an own "HotKey" that determined in the ToolType "CX_POPKEY".

Group 'Scanning'

Button 'preview'

The scanner samples the entire scanner bed.

Button 'zoom'

The section, determined through the frame, is sampled again and displays enlarged.

Button 'again'

- a) The picture sampled before, is loaded from the temporary file.
This is practical if the presentation was not yet modified and one would ↩
rapid
start again from the beginning.
- b) If it should become necessary to close the preview window, with this button,
the picture can be represented fast again.

Group 'window'

Field 'X-pixels'

This field announces the dimensions to be expected in image pixel.
The announced value can deviate easily from the made picture.

Field 'Y-pixels'

This field announces the dimensions to be expected in image lines.
The announced value can deviate easily from the made picture.

Field 'kilobyte'

This field announces the amount of data in kilobytes, that is stored from the ↩
scanner
into the temporary file. The later picturefilesize results of the
chosen graphics file format.

Field 'width'

The width of the scan window on the scanner bed is announced here.

Field 'height'

The height of the scan window on the scanner bed is announced here.

Group 'basic resolution'

Here can be adjusted with which sampling resolution the scanner should work.
It exists the possibility to create profiles for different devices or projects.

Group 'picture'

Slider 'brightness'

Brightness can be adjusted from -100%(black) to +100%(white).

Slider 'contrast'

Contrast can be adjusted from -100%(grey) to +100%(black/white).

Slider 'gamma'

The gamma curve can be adjusted from 0.01 to 4.99.

Slider 'red';'green';'blue'

Color saturation can be adjusted from -100%(black/white) to +100%(colorful).

If all three sliders are in the '0%' position, this functional group is disabled.

Slider 'Sharpen'

The image sharpness can be adjusted from 0% to 100%.

In the '0%' position, this function is disabled.

The display data are sharpened with a 3x3 matrix.

Group 'scaling'

Slider 'X'

The horizontal- sampling resolution becomes varied.

Slider 'Y'

The vertical- sampling resolution becomes varied.

1.20 "

Descriptions/

User windows/

Area window:

This window is achieved over the menu: "Project->Areawindow".

Adjustments for precise positioning of the scan window on the scanner bed are made here.

Group 'position'

Slider 'X';'Y'

The offset of the scan window is hereby adjusted.

Group 'window size'

Slider 'width';'hight'

The size of the Scan window is hereby adjusted.

1.21 "

Descriptions/

User windows/

Preferences window:

This window is achieved over the menu: "Preferences->Change".

All necessary adjustments for the program configuration are united here.

Group 'screen mode'

Switch 'Workbench'

This switch determines whether the GUI from ScanTrax opens on the Workbench.

Switch 'Public'

Different programs offer the possibility to make their screen public.

If this switch activated, ScanTrax opens itself on the screens of these programs ↔
.

Switch 'Custom'

If this switch is activated, an own screen for ScanTrax can be determined.

Group 'preview mode'

Selector switch 'window'

The operating mode for the preview window is determined here.

There are three setting options:

Grey scales (AGA), color (AGA) ->

The number of the representable colors is limited to a maximum of 256 tints.
Should be from an other program a part of the colors engaged, e.g. through a
Screen background picture, in such a way, the number again decreases!

Color (CyberGraphX) ->

The number of colors depends from the chosen CyberGraphX bitmap depth.

Selector switch 'scanner'

Here is determined with which graphics mode the scanner samples the preview ↔
picture.

Group 'display'

Selector switch 'unit of measure'

Here it can be chosen between the three units of measure inch, centimeters and
points per inch (dpi).

Group 'preview window'

Slider 'X-Aspekt'; 'Y-Aspekt'

The size of the preview window on the screen can hereby be adapted.

Too big windows affect service of the Zoom frame disturbingly.

Switch 'do not sharpen preview picture'

Sharpening the preview picture takes much CPU time in use.

On slow computers, shutdown of this function can be advantageous.

Group 'file format'

Selector switch 'Save'

The formats PiNG, TARGA, JPEG, IFF-DEEP or IFF-ILBM can be adjusted.

Switch 'Compression'

This switch determines whether the graphics format works with compression.

The switch has only a function in the case of IFF-ILBM.

Switch 'Store unconditionally in 24bit'

When the scanner work in monochrome- or greyscalemodes a 8bit graphics-file is made. If this switch is active, always 24bit files are made.

Switch 'JPEG-Quality'

The JPEG graphics format offers the possibility to adjust the compression factor ↔

The default value is 75.

Group 'file options'

Switch 'file suffix automatic'

This switch determines, whether to all filenames in accordance with the chosen ↔ graphics format,

graphics format extensions are appended.

According to own wishes, these may be pre-adjusted in the ToolTypes.

Switch 'delete temporary files'

This switch determines whether temporary files are deleted at end of program.

1.22 "

Descriptions/

User windows/

Information window:

This window is achieved over the menu: Project->Scanner information.

Field 'model'

Here is as first announced the model denotation. The production year follows and the production week of the scanner.

Switch 'lamp test'

The scanner lamp is turned on here for 5- seconds.

This function is only used for the visual inspection of the lamp.

Switch 'self-test'

The scanner carries out its turning on self-test.

Possible error reports are here:

'The scanner reports a hardware failure'

If this message should appear, a error has occured within the scanner.

In this case the scanner must be repaired.

'A wrong SCSI-OpCode was obtained in the scanner'

During the control of the scanner via the SCSI interface, errors occurred.

Occurrence of this error means, that the scanner or the program is not
functioned

with this SCSI adapter.

1.23 "

History:

The standstill in the evolution of the Amiga's, allowed it me to develop this
program.

Since 1994, i am working on this program during my leisure time.

This program was written at the beginning in Assembler.

The program becoming more and more complex forced me to change to 'C'.

Known program error/special features:

Some systems can not represent the mouse pointers correctly!

If that should be the case, these are to be removed from the program directory!

If a ScanJet 5p is used, the program must be informed via ToolType.

The 'Push button' of the ScanJet 5p is not supported.

Some graphics functions do not work as wanted:

'Black/white Threshold' the Thresholdlevel can not be adjusted.

'Black'; 'White' black or white pictures are only made, in the next Version these
both ones are removed.

Improvement requests of the user:

No program is faultless. Error descriptions, new or corrected Catalog files
are to be sent best to me by E-Mail.

How does it go on with ScanTrax?

I re-work ScanTrax again since I do not yet like some.

The selection of the different ScanModi will modify.

Expression of thanks:

A 'thank you' goes to all that having registered for ScanTrax!

About this english document:

Because of my bad old school english, this document was translated with a PC-translation program and then corrected by hand. I hope it is usable.

History

All programs of version 1.0 appertain to the first one beta- test series.

Version 1.1 (Mar 23 1997)

First publication

Version 1.2 (Jun 01 1997)

Error in the picturepath pre-adjuster fixed.

Preview pictures are now computed by a separate task.

Display failure in the case of 8Bit-CyberGraphX Screens fixed.

Error with inch- and dpi- window position specifiers in the ARexx- command ↔

SET_WINDOW fixed.

It should be possible to use the ScanJet 5p.

1.24 "

Registration:

A T T E N T I O N:

MAKE A TEST WITH SCANTRAX ON YOUR SYSTEM!

PLEASE REGISTER ONLY, IF YOU CAN SCAN AND SAVE A PICTURE WITH
THE UNREGISTERED VERSION!

The registered user of ScanTrax receives a personalized key file.

The key file disconnect the restrictions of the unregistered version.

Restrictions of the unregistered version:

The program configuration can not be saved.

All made pictures show black lines.

The charge for ScanTrax conducts 30 Deutsche-Mark or 20 US-dollars.

In order to register fill out the file 'Registration.form', print out and sign it ↔

Send this form and the ShareWare-Charge in cash by post.

The user then receives a program-disk with his key file.

The registered user agrees with the following licence agreement:

A backup for file saving may be constructed from the program-disk.

The files of the program-disk may only be fit on one computer.

Spread the key file to other is forbidden!

The user accepts the program and program errors 'AS IT IS'!

The user accepts the Copyright!

Please send your registration to my postal contactaddress .

1.25 "

Address of the author:

POST:

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Klaus_Krause@compuserve.com
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1.26 "

Installation:

Installation is performed by the Installer employed from Amiga International.

A double-click onto the installation pictogram starts the installersript, which carries out all necessary installation steps.

After successful installation, the following file structure results:

ScanTrax/Catalogs/english/ScanTrax.catalog
ScanTrax/Catalogs/ScanTrax.ct
ScanTrax/Pointer_AD.pre
ScanTrax/Pointer_DL.pre
ScanTrax/Pointer_DT.pre
ScanTrax/Pointer_LR.pre
ScanTrax/Pointer_UD.pre
ScanTrax/Registration.form
ScanTrax/Registration.form.info
ScanTrax/Registrierung.form
ScanTrax/Registrierung.form.info
ScanTrax/rexxtest
ScanTrax/rexxtest.info
ScanTrax/ScanMode.prefs
ScanTrax/ScanTrax
ScanTrax/ScanTrax.info

ScanTrax/ScanTrax_D.guide
ScanTrax/ScanTrax_D.guide.info
ScanTrax/ScanTrax_E.guide
ScanTrax/ScanTrax_E.guide.info

1.27 "

Tips and tricks:

1. Picture adjustments
2. SCSI host adapter
3. Filesystem
4. Mousepointer
5. Screen

1.28 "

Tips and tricks/
Picture adjustments

The texts of this page are dependent on the employed Hardware (graphic card, monitor, scanner) and can here are used only for information!

In order to achieve useful results with ScanTrax some settings are to carry out. First assumption for this is a graphic card!!!

The program was developed with a ScanJet IIcx. The following settings made useful results with the development device:

Brightness	0%
Contrast	14%
Gamma	2.40
Red	0%
Green	0%
Blue	0%
Sharpness	50%

Compared with originalpicture to monitorpicture, it can occur greater color ↵
corruption
that are be recognized.
This lack can in part be corrected with the RGB sliders.

It is hardly to judge whether ScanTrax makes good pictures.
I have compared the made pictures of ScanTrax with those, that i have made on an IBM compatible PC.

The PC results are, what colour rendering concerns, approached no better to the original as ScanTrax. Identical results are however not to be achieved.

However, I am finally satisfied with the results so far,
that I to receive good pictures, i must not scanning on the PC!

1.29 "

Tips and tricks/
SCSI host adapter:

With some host adapters problems can occur while scanning.
These can be caused by wrong host adapter presettings.
Therefore, search in the documentation of the host adapter for adjustment of "SCSI direct DMA / SCSI direkt polling" as well as "Reselection".
The correct settings should be determined in the experiment.

Settings for the host adapter FastLaneZ3: SCSI-Direct-DMA, Reselection ON

1.30 "

Tips and tricks/
File system:

ScanTrax can make very big temporary files (>10 MB).
The delete of the files need a long time on some computers!
In order to speed up this there are two possibilities:
a) Arrange the partition of the hard disk with a block size ≥ 1024 byte.
b) Change the file system.

1.31 "

Tips and tricks/
Mouse pointer:

ScanTrax manages 5 mouse pointers for the preview window in the program directory ↵

The mouse pointers can be edited with the program "Pointer" which appertains to every Workbench.

On some computers, there are problems during representation of the mouse pointers ↵

If this should be the case, these are to be removed from the program directory!

1.32 "

Tips and tricks/
Screen:

For a good preview picture, it is important to employ the correct screen!

8-Bit screens: (Amiga AGA-ChipSet and CyberGraphX)

At 8-Bit screen depths, ScanTrax reserves for itself so many free color pots from the screen as available. The reserved pots are now engaged with colors. The less available free color pots on the screen are, the less colors it can be represented by ScanTrax. Therefore it is to be ensured, that the color ↵
pots
from the Screen (e.g. the Workbench) are free! Is on the Workbench a background-picture represented, the preview picture deteriorates!

On an Amiga computer without AGA (e.g. A3000), the preview picture is very bad! Therefore, a graphic card should be employed here.

16- or 24-Bit screens: (CyberGraphX)

Since the colors to be represented are represented directly here, the preview ↵
picture is
always optimally represented.
These screen depths should be employed for a reasonable operation!