

BetaScan

Svend Daugaard Pedersen

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COLLABORATORS

	<i>TITLE :</i> BetaScan		
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Chapter 1

BetaScan

1.1 BetaScan Manual

BetaScan 1.12

A scanner program for the Amiga

by

Svend Daugaard Pedersen

Overview

System Requirements

Installation

Using BetaScan

Tested Systems

How it was made

Thanks

Author

History

Future

1.2 Overview

Overview

BetaScan is a general scanner program for the Amiga (se

System Requirements
).

It is designed to be used with virtually any scanner for which a driver exists.

In the BetaScan archive is a driver for Microtek ScanMakerE3 (or Microtek Phantom 4800, which is in fact a ScanmakerE3). Other drivers is found in separate archives in AmiNet.

1.3 System Requirements

System Requirements

Any Amiga with at least 68020 processor and Kickstart 3.0.

Recommended: at least 8Mb RAM, 50Mb free disk space and a graphics card with CyberGraphX.

1.4 Installation

Installation

There is no install script for this program -:(

However, the installation is very simple :-)

Move the BetaScan drawer to the desired place. That's all.

1.5 Using BetaScan

Using BetaScan

Starting BetaScan

Control Buttons

Preview Window

Configuration

Color Mode

Scan Size

Advanced Settings

1.6 Starting BetaScan

Starting the program

BetaScan may be started from CLI or from Workbench in the usual way.

The first time you start the program, a screen requester pops up allowing you to select a screen and the number of colors.

This screen requester will pop up at program start until you have made a real configuration

.

1.7 Control Buttons

Main Control Buttons

In the upper left part of the BetaScan window you find the five main program control buttons:

Stop The program stops. No requester will pop up since there is nothing seriously to loose.

Photo Copy The area selected by the frame in the preview window is scanned and send directly to the printer. TurboPrint is supported.

Scan File The area selected by the frame in the preview window is scanned and send to the selected output file

.

Zoom The area selected by the frame in the preview window is scanned and shown enlarged in the preview window

.

Preview The whole document is scanned and is shown in the preview window

.

1.8 Preview Window

The Preview Window

The big area below the
Control Buttons
is used to show a preview of
the document.

The red frame bounds the area that will be scanned (see
Control Buttons
).

The frame can be sized or moved by the mouse (click on the small squares and
move the mouse). To get a precise position and size use the button
Frame..
.

1.9 Configuration

Configuration

In this section you can set the main program parameters (
Config..
) and the
name and type of the
output file
.

The first time you use the program you should set screen mode, select the
scanner and set the size of the RAM buffer (
Config..
).

1.10 Program Parameters

Setting the Main Program Parameters

Screen.. Select the screen to be used by BetaScan.

If you choose an AGA screen (Amiga 1200 and Amige 4000) you can
select the number of colors, too. But don't expect a true color
preview picture if you select a 16 color screen!

Scanner.. Select your scanner.

IO-Device.. Select the IO-Device the scanner is connected (most often
SCSI) and the unit number.

TmpDir.. The directory to place temporary files if the RAM buffer is too small to hold the whole picture.

RAM Buffer Select the size of the buffer to hold the scanned picture during scanning.

Number Of Copies..
The number of copies printed when pressing Photo Copy button (see Control Buttons).

HP LaserJet Compatible
Select this if your printer is a HP LaserJet compatible printer. Then the scanned area is only send once to the printer (don't select if TurboPrint is installed!).

1.11 Output File

Select Output File Name and File Type

The available file types are JPEG and ILBM (24 bit color, 8 bit gray scale or 1 bit B/W).

B/W JPEG are stored as grey scale pictures.

1.12 Color Mode

Color Mode

The modes available depends on the scanner. If Halftone is selected a list view appears allowing you to select the pattern.

1.13 Scan Size

Scan Resolution and Size

The resolution is measured in dpi (dots per inch). By pressing Frame.. you can set the area of the picture to be scanned. The size and position are measured in mm.

The size of the scanned picture is shown. The number is influenced by the resolution,

Color Mode
and frame size. The size is not the size of the file which is normally smaller.

1.14 Advanced Settings

Color Correction

The available color correction modes are scanner dependant.

Most scanners support gamma correction as well as brightness and contrast adjust. The result of a change of one of these correction values is immediately shown on the preview picture.

NOTE! Moving the slider require a lot of CPU power if you use a 24 bit screen. It might be better to use an 8 bit screen. The colors are almost as good as on a 24 bit screen.

1.15 Tested Systems

BetaScan has been tested on the following systems:

A3000 030/25 with
OS 3.1
CyberStorm 060/50
100 Mb RAM
3.2 Gb HD
CyberVision64 with CyberGraphX
External CD ROM and Syquest EZ Flyer
Microtek Phantom 4800 and HP ScanJet 4c

A3000 030/25 with
OS 3.1
16 Mb RAM
0.25 Gb HD
Microtek Phantom 4800

A4000 040/25 with
OS 3.0
16 Mb RAM
0.12 Gb HD
(no scanner)

1.16 BetaScan auther

Send any suggestion, bug report or compliment :-) to:

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1.17 How BetaScan was made

BetaScan - version 1.12 3'rd july 98

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Svend Daugaard Pedersen
BetaScan was compiled with
StormC ®
ver. 3.0

The Microtek ScanmakerE3 driver was compiled with
SAS/C ®
6.57

The GUI was made with CIT, an object oriented gadget system made
by the

author

.

BetaScan, as well as all the accompanying files, is
©1998 Svend Daugaard Pedersen.

1.18 BetaScan's author would like to thank...

BetaScan's author would like to thank...

Amiga For being the best platform to 'work' on. And still
alive in spite of some sad facts.

SAS/C ® The compiler I have used for years.

StormC ® A C/C++ compiler with an excellent development environment,
and finally (from ver. 3) producing stable and effective code.

IJG The Independent JPEG Group's JPEG software for some useful
routines.

1.19 History

History

V1.00 May 1998

- first public release

V1.02 June 1998

- errors removed.

V1.10 July 1998

- added possibility to make several copies in photo copy section.
- small errors corrected.

V1.12 October 1998

- small changes in the GUI.
- small errors corrected.
- new localization

1.20 Future

Most of the drivers are made on the basis of SANE scanner drivers (<http://www.mostang.com/sane/>). To make BetaScan work with these drivers a lot of data copying is done during scanning. This makes scanning slower.

A redefinition of the BetaScan driver interface is necessary to avoid this.