

BetaScan

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Chapter 1

BetaScan

1.1 BetaScan Manual

BetaScan 3.0

A scanner program for the Amiga

by

Svend Daugaard Pedersen

Overview

System Requirements

Installation

Using BetaScan

Tested Systems

How it was made

Thanks

Author

FAQ

History

Future

1.2 Overview

Overview

BetaScan is a general scanner program for the Amiga (see 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 are found in separate archives in AmiNet.

1.3 System Requirements

System Requirements

Any Amiga with at least 68020 processor and Kickstart 3.1 and WB3.5/3.9 (or may be WB3.1 with ClassAct).

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

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

Scan Mode

Scan Size

The Card Index

1.6 Starting BetaScan

Starting the program

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

1.7 Control Buttons

Main Control Buttons

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

Quit The program stops. No requester will pop up since there is nothing seriously to lose.

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 (see Program Settings).
If the name of the selected Output File already exists, a file requester will pop up.

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

In this section you can set the main program parameters (Program Setting).

and the current scanner settings (like scan mode, resolution and colour correction).

By pressing the β -scan button you can see the name and type of the connected scanner.

1.10 Scan Mode

Scan Mode

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

1.11 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 (in pixels or in bytes) of the scanned picture is shown. The value is influenced by the resolution, Scan Mode and frame size. The size in bytes is not the size of the file which is normally smaller.

1.12 The Card Index

The number of cards in this index depends on the scanner. The cards are: ←

Colour

Photo Copy

Misc

1.13 Colour Correction

The available colour correction modes are scanner dependent.

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 colours are almost as good as on a 24 bit screen.

1.14 Photo Copy

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!).

Printer Setting..

Brings up the printer preference window.

Threshold Select Black-White threshold (see NOTE in Colour Correction).

1.15 Misc

Reserved for options only implemented on a few scanner drivers.

1.16 Program Setting

Setting the Main Program Parameters

GUI

Scanning

Output File

1.17 GUI

Screen Select the screen to be used by BetaScan.

You can select a PAL screen, too. But don't expect a true colour preview picture if you select a 16-colour screen!

The Workbench screen can only be used if it has more than 256 colours. Otherwise a Workbench-like screen is used.

Window By selecting Save Window Coordinates The size and position of the main BetaScan window will be saved at program end.

Font Select the font used by BetaScan.

Not yet implementet.

1.18 Scanning

Scanner Select your scanner.

IO-Device Select the IO-Device the scanner is connected (most often SCSI or USB) 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.

1.19 Output File

Output File Select the name of the scanner output file (the file name ←

used when pressing Scan File (see
Control Buttons
)

File Type etc.

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

B/W JPEG are stored as grey scale pictures.

1.20 Tested Systems

BetaScan has been tested by the auther on the following systems:

A3000 030/25 with
OS 3.9
CyberStorm 060/50
116 Mb RAM
9 Gb HD
CyberVision64 with CyberGraphX
Highway USB
External CD ROM and Syquest EZ Flyer
HP ScanJet 4c and 6200C

A3000 030/25 with
OS 3.9
26 Mb RAM
3.2 Gb HD
External CD ROM
HP ScanJet 6200C

A4000 040/25 with
OS 3.9
Picasso with P96
66 Mb RAM
3.2 Gb HD
(no scanner)

1.21 BetaScan auther

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

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1.22 How BetaScan was made

BetaScan - version 3.0 7th February 2003

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

The Microtek ScanmakerE3 driver was compiled with
SAS/C ®
6.58

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

auther

.

BetaScan, as well as all the accompanying files, is
©1998-2003 Svend Daugaard Pedersen.

1.23 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.

.. and all those users that have been very patience during tests of new
devices.

1.24 History

History

V3.02 February 2003

- bugs corrected

- new Setting Window

- Window position can be stored and reused at next startup

V3.00 February 2003

- New GUI based on Reaction

The functionality is close to v2.35

V2.35 November 2002

- added option for showing all devices in RAM (during IO-Device selection)

V2.33 August 2002

- picture size can be shown in pixels or in bytes

V2.32 April 2002

- error in ILBM compression corrected
 - jpeg.library by Paul Huxham used (if present)
- (thanks to Stephan Rupprecht for both changes)

V2.31 December 2001

- added gadget for printer setting

V2.30 February 2001

- added possibility to save the current scanner settings
- changes in GUI

V2.25 August 2000

- small change in GUI (to make room for source selection)
- some enforcer hits removed

V2.20 April 2000

- problems with long texts in OS3.5 fixed
- TempDir check during config file load (if directory not exists it is changed to directory of BetaScan)

V2.15 March 1999

- another name buffer error corrected
 - corrupted preview with bitmap screen and Kickstart 3.0 corrected
 - any operation (scanning, writing to file etc.) can be aborted (see the scanner driver ReadMe files for limitations)
-

V2.05 January 1999

- buffer for IO device name 256 bytes (prior 32 bytes)
- removed problems with brightness and contrast correction in preview window on some scanners
- better error information in case of scanner configuration error
- support for automatic document feeder
- change in threshold value shown immediately in preview window (like gamma, brightness and contrast)

V2.00 December 1998

- completely new scanner interface
- small changes in GUI due to the new interface

V1.26 November 1998

- Info.. button added
- better error information in case of scanner configuration error
- protection against unintentional overwriting of existing file
- small changes in the GUI.
- small errors corrected.

V1.12 October 1998

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

V1.10 July 1998

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

V1.02 June 1998

- errors removed.

V1.00 May 1998

- first public release
-

1.25 Future

Implementing font selection.

1.26 FAQ

Frequently Asked Questions

Q: Is it possible to use a parallel scanner with BetaScan?

A: In principle YES. But drivers must be written.

At this moment only drivers for Epson and HP parallel scanners are made.

Q: I have tried BetaScan with the driver for ScanmakerE3. But each time I press Preview, Zoom or Scan File button a requester pops up with the message: "Communication Error" (or some thing like that).

A: The driver ScanmakerE3.device is not perfect. Use in stead the SANE based driver Microtek.device found in a separate archive in AmiNet.

Q: I am unable to select my scsi device driver. It is not found in the requester.

A: Some scsi device drivers are found in ROM like the cyberscsi.device, 1230scsi.device or the build in scsi device scsi.device in A3000.

Select Show Devices in RAM.

Q: I have problems when trying the Photocopy option which invariably crashes my machine.

A: If you are using TurboPrint and TurboSpool then turn off TurboSpool. Note also that you need enough RAM to hold the whole picture.
