

# **BetaScan**

Svend Daugaard Pedersen

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**COLLABORATORS**

	<i>TITLE :</i> BetaScan		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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# Chapter 1

## BetaScan

### 1.1 BetaScan Manual

BetaScan 2.35

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

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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 3.0.

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

Scan Mode

Scan Size

The Card Index

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## 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:

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 Parameters ).  
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

Configuration

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

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

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

By pressing the Info.. 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..  

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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:

Photo Copy

Color Corr

Doc Source

## 1.13 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!).

## 1.14 Color Correction

The available color 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. The same is true for threshold.

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.

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## 1.15 Doc Source

This option is only implemented on a few scanner drivers.

And it has never been tested with success :-(

## 1.16 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 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.

Output File Select the name of the scanner output file (the file name used when pressing Scan File (see Control Buttons)  
)  
By pressing Name.. e file requester will popup.

File Type etc.

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.

## 1.17 Tested Systems

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

A3000 030/25 with  
OS 3.5  
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 3.5  
66 Mb RAM  
3.2 Gb HD  
External CD ROM  
HP ScanJet 6200C

A4000 040/25 with  
OS 3.5  
24 Mb RAM  
3.2 Gb HD  
(no scanner)

## 1.18 BetaScan auther

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

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## 1.19 How BetaScan was made

BetaScan - version 2.35 11th November 2002

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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  
©1998-2002 Svend Daugaard Pedersen.

## 1.20 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.

## 1.21 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

V1.26 November 1998

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- 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.

V2.00 December 1998

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

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)

V2.15 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)

V2.20 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)

V2.25 August 2000

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

V2.30 February 2001

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

V2.31 December 2001

- added gadget for printer setting

V2.32 April 2002

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

V2.33 August 2002

- picture size can shown in pixels or in bytes

V2.35 November 2002

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

## 1.22 Future

More drivers.

## 1.23 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.  
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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.  
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Q: I am unable to select my scsi device driver. It is not found in the requester.

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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.

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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.

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