BetaScan

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COLLABORATORS

	TITLE : BetaScan		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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BetaScan 2.25

A scanner program for the Amiga

by

Svend Daugaard Pedersen

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1.2   Overview

Overview

BetaScan is a general scanner program for the Amiga (se
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).
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

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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
                .

            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 wil 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..
).

By pressing the Info.. button you can see the name and type of the connected
scanner.

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 buttom
               (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 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.
```

1.13 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,
```
          Scan 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 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 imme-
diately 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.

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:

                        Svend Daugaard Pedersen
                        Hoffmeyersvej 17
                        DK-2000 Frederiksberg
                        Denmark

                        Email: sdp@vip.cybercity.dk
```

1.17   How BetaScan was made

```
                            BetaScan   -  version 2.25   27th August 2000

                ©1997-2000
             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
©1998-2000 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.

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

1.19 History

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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

  - 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

1.20 Future

More drivers.

1.21 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 buttom 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: If the scsi device driver is found in ROM like the cyberscsi.device
   or 1230scsi.device it is not shown in the requester. You have to type
   in the name manually in the IO Device input field in the configuration
   window. Be careful to type in the correct name with the correct case.