Rocky Enterprise Linux 9.2 Manual Pages on command 'sane-microtek2.5'

$ man sane-microtek2.5

sane-microtek2(5)   SANE Scanner Access Now Easy   sane-microtek2(5)

NAME

    sane-microtek2 - SANE backend for Microtek scanners with SCSI-2 command

    set

DESCRIPTION

    The sane-microtek2 library implements a SANE (Scanner Access Now Easy)

    backend that provides access to Microtek scanners with a SCSI-2 command

    set. This backend can be considered alpha to beta. Some scanner models

    are reported to work well, others not. New development versions of this

    backend can be obtained from http://karstenfestag.gmxhome.de.

    There exists a different backend for Microtek scanners with SCSI-1 com?

    mand set. Refer to sane-microtek(5) for details.

    And there is work in progress for the ScanMaker 3600. See

    http://sourceforge.net/projects/sm3600.

    At present, the following scanners are known positively to work with

    this backend:

    Vendor   Product id   Remark

Microtek   E3+   Parport and SCSI

Microtek   X6   SCSI

Microtek   X6EL   SCSI

Microtek   X6USB   USB

Microtek   ScanMaker V300   Parport and SCSI

Microtek   ScanMaker V310   Parport and SCSI

Microtek   ScanMaker V600   Parport and SCSI

Microtek   ScanMaker 330   SCSI

Microtek   ScanMaker 630   SCSI

Microtek   ScanMaker 636   SCSI

Microtek   ScanMaker 9600XL SCSI; only flatbed mode?

Microtek   Phantom 330CX   Parport

Microtek   SlimScan C3   Parport

Microtek   SlimScan C6   USB

Microtek   Phantom 636   SCSI

Microtek   Phantom 636CX   Parport

Microtek   V6USL   SCSI and USB

Microtek   V6UPL   USB; not stable

Microtek   X12USL   SCSI; only 8bit color, work in progress

Vobis   HighScan   SCSI (E3+ based models)

Scanport   SQ300   Parport?

Scanport   SQ4836   SCSI

Scanpaq   SQ2030   Parport

Additional information can be found at http://www.sane-project.org/.

If you own a Microtek scanner other than the ones listed above, it may

or may not work with SANE! Because equal scanners are sold under dif?

ferent names in different countries your model may be equivalent to one

of the above.

The parport scanners work with the ppscsi + onscsi kernel modules. See

http://cyberelk.net/tim/parport/ppscsi.html   and   http://penguin-

breeder.org/kernel/download/.

The USB scanners work with the microtek kernel module. You may have to

add the vendor and model codes to microtek.c if they aren't yet listed

there.

Both parport and USB scanners need the generic SCSI support, so check
if you have loaded the scsi_mod and sg modules!

If you try your scanner for the first time keep an eye on it. If it
gets commands that it doesn't understand the scanhead may go beyond the
scan area. The scanner then makes strange noises. In this case immedi?
ately switch off the scanner or disconnect its power cable to prevent
damages!

If your scanner is a different one than the models mentioned above and
it is working please tell the author about it. It would be nice if you
add a logfile to this information (creation of the logfile: see below).

If your scanner is not working properly you also should create a log?
file and send it to the author. He will use the information to improve
the backend and possibly make your scanner work.

How to create the logfile?

- put the line

     "option dump 2" into your microtek2.conf file or change the ex?

     isting "option dump" to "2"

- in a terminal (bash) type

     "export SANE_DEBUG_MICROTEK2=30" and then

     "scanimage -l0 -t0 -x100 -y20 2>scan.log >sout.pnm"

     You get two files: scan.log contains the logfile and sout.pnm

     the scanned image (if there was scanned something). Zip them be?

     fore sending.

FRONTEND OPTIONS

This backend dynamically enables the options for the frontend, that are
supported by the scanner in dependence of the scanning-mode and other
options. Not supported options are disabled.

The following options are supported by the sane-microtek2 driver:

Color, grayscale, halftone and lineart scans.

Highlight, midtone, shadow, contrast, brightness, exposure time con?
trol, gamma correction, threshold (dependent of the scan mode and the
scanner capabilities)

Transparency media adapter, automatic document feeder

Additional options can be enabled or disabled in the microtek2.conf

file. See the configuration section of this manpage.

DEVICE NAMES

This backend expects device names of the form:

special

Where special is the UNIX path-name for the special device that corre?

sponds to the scanner. The special device name must be a generic SCSI

device or a symlink to such a device. Under Linux, such a device name

could be /dev/sga or /dev/sge for example.

CONFIGURATION

The configuration file for this backend resides in /etc/sane.d/mi?

crotek2.conf.

Its contents is a list of device names that correspond to Microtek

scanners with SCSI-2 interface. Empty lines and lines starting with a

hash mark (#) are ignored.

The configuration file may also contain options. Global options that

are valid for all devices are placed above the device names. Device-

specific options are placed under the device name. Note that, except

for option dump <n> and option strip-height <n>, the entry in the mi?

crotek2.conf file only enables the corresponding option for being

showed in the frontend. There, in the frontend, you can switch the op?

tions on and off. Currently the following options are supported:

option dump <n>

option strip-height <n>

option no-backtrack-option <on/off>

option lightlid-35 <on/off>

option toggle-lamp <on/off>

option lineart-autoadjust <on/off>

option backend-calibration <on/off>

option colorbalance-adjust <on/off>

option dump <n> enables printing of additional information about the

SCSI commands that are sent to the scanner to stderr. This option is

primarily useful for debugging purpose. This option has to be a global

option and is best placed at the top of the microtek2.conf file.

If n=1 the contents of the command blocks and the results for the IN?

QUIRY and READ SCANNER ATTRIBUTES command are printed to stderr.

If n=2 the contents of the command blocks for all other SCSI commands

are printed to stderr, too. If n=3 the contents of the gamma table is

printed, too. If n=4 all scan data is additionally printed to stderr.

The default is n=1.

option strip-height <n> , where <n> is a floating point number, limits

the amount of data that is read from the scanner with one read command.

The unit is inch and <n> defaults to 1.0, if this option is not set in

the configuration file. If less than <n> inch of data fit into the SCSI

buffer, then the smaller value is used and this option has no effect.

If your system has a big SCSI buffer and you want to make use of the

whole buffer, increase the value for <n>. For example, if <n> is set to

14.0, no restrictions apply for scanners with a letter, legal or A4

sized scan area.

The following options enable or disable additional frontend options. If

an option is set to <on> an appropriate option will appear in the

frontend.

option no-backtrack-option <on/off> prevents the scanner head from mov?

ing backwards between the read commands. This speeds up scanning. Try

it.

option lightlid-35 <on/off> If you use the LightLid-35 transparency

adapter you get an advanced option which switches off the flatbed lamp

during the scan.

option toggle-lamp <on/off> You get a button in the frontend where you

can switch on and off the flatbed lamp.

option lineart-autoadjust <on/off> You can tell the backend to try to

determine a good value for the lineart threshold.

option backend-calibration <on/off> Some scanners (e.g. Phantom 330CX

and 636CX) need to have calibrated the data by the backend. Try this

option if you see vertical stripes in your pictures.

option colorbalance-adjust <on/off> Some scanners (e.g. Phantom 330CX and 636CX) need to have corrected the color balance. If this option is enabled you get advanced options where you can balance the colors. And you will have a button to use the values that the firmware of the scan? ner provides.

A sample configuration file is shown below:

    option dump 1

    option strip-height 1.0

    /dev/scanner

    option no-backtrack-option on

    # this is a comment

    /dev/sge

    option lightlid-35 on

This backend also supports the new configuration file format which makes it easier to detect scanners under Linux. If you have only one scanner it would be best to use the following configuration file for this backend:

    option dump 1

    option strip-height 14.0

    option no-backtrack-option on

    option backend-calibration on

    option lightlid-35 on

    option toggle-lamp on

    option lineart-autoadjust on

    option colorbalance-adjust off

    scsi * * Scanner

In this case all SCSI-Scanners should be detected automatically because of the

scsi * * Scanner

line.

FILES

/etc/sane.d/microtek2.conf

    The backend configuration file. *Page 6/7*

/usr/lib64/sane/libsane-microtek2.a

>   The static library implementing this backend.

/usr/lib64/sane/libsane-microtek2.so

>   The shared library implementing this backend (present on systems

>   that support dynamic loading).

ENVIRONMENT

SANE_DEBUG_MICROTEK2

>   If the library was compiled with debug support enabled, this en?

>   vironment variable controls the debug level for this backend.

>   E.g., a value of 255 requests all debug output to be printed.

>   Smaller levels reduce verbosity. To see error messages on stderr

>   set SANE_DEBUG_MICROTEK2 to 1 (Remark: The whole debugging lev?

>   els should be better revised).

>   E.g. just say:

>   export SANE_DEBUG_MICROTEK2=128

SEE ALSO

sane-scsi(5), sane(7)

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