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

$ man sane-umax.5

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

NAME

    sane-umax - SANE backend for UMAX scanners

ABOUT THIS FILE

    This file only is a short description of the sane-umax backend for

    sane! For detailed information take a look at sane-umax-doc.html (it is

    included in the sane source directory and in the xsane(1) online help)!

DESCRIPTION

    The sane-umax library implements a SANE backend that provides access to

    several UMAX-SCSI-scanners and some Linotye Hell SCSI-scanners, paral?

    lel- and USB-scanners are not (and probably will never be) supported!

    I suggest you hold one hand on the power-button of the scanner while

    you try the first scans!

CONFIGURATION

    The   configuration   file   for   this   backend   resides   in

    /etc/sane.d/umax.conf.

    Its contents is a list of device names that correspond to UMAX and UMAX

    compatible scanners. Empty lines and lines starting with a hash mark

(#) are ignored. A sample configuration file is shown below:

```
# this is a comment
#
option scsi-maxqueue 4
option scsi-buffer-size-min 65536
option scsi-buffer-size-max 131072
option scan-lines 40
option preview-lines 10
option scsi-maxqueue 2
option execute-request-sense 0
option force-preview-bit-rgb 0
option slow-speed -1
option care-about-smearing -1
option calibration-full-ccd -1
option calibration-width-offset -1
option calibration-bytes-pixel -1
option exposure-time-rgb-bind -1
option invert-shading-data -1
option lamp-control-available 0
option gamma-lsb-padded 0
/dev/sge
#scsi Vendor Model Type Bus Channel ID LUN
# The following scanner supports lamp control
option lamp-control-available 1
scsi UMAX * Scanner * * * * *
# scanner on /dev/scanner does not support lamp control
option lamp-control-available 0
/dev/scanner
```

execute-request-sense:

    values: 0 = disabled, 1 = enabled

    default = 0

    If set to 1 umax_do_request_sense is called in umax_do_calibra?

    tion. This can hang the system (but has been enabled until this

version)

scsi-buffer-size-min, scsi-buffer-size-max:

   values: 4096-1048576

   default min = 32768, max = 131072

   Especially the minimum value is very important. If this value

   is set too small the backend is not able to send gamma tables to

   the scanner or to do a correct color calibration. This may re?

   sult in strange color effects. If the minimum value is set too

   large then the backend is not able to allocate the requested

   SCSI buffer size and aborts with out of memory error. The de?

   fault is 32KB, for some scanners it should be increased to 64KB.

scan-lines, preview-lines:

   values: 1-65535

   default: scan-lines = 40, preview-lines = 10

   define the maximum number of lines that are scanned into one

   buffer

force-preview-bit-rgb:

   values: 0 = disabled, 1 = enabled

   default = 0

   set preview bit in rgb real scan

slow-speed, care-about-smearing:

   values: -1 = auto, 0 = disabled, 1 = enabled

   default = -1

   dangerous options, needed for some scanners do not changed these

   options until you really know what you do, you may destroy your

   scanner when you define wrong values for this options

calibration-full-ccd:

   values: -1 = auto, 0 = disabled, 1 = enabled

   default = -1

   do calibration for each pixel of ccd instead of selected image

calibration-width-offset:

   values: -99999 = auto, > -99999 set value

   add an offset width to the calculated with for image/ccd

calibration-bytes-pixel:

    values: -1 = disabled, 0 = not set, 1 = 1 byte/pixel, 2 = 2

    bytes/pixel

    use # bytes per pixel for calibration

exposure-time-rgb-bind:

    values: -1 = automatically set by driver - if known, 0 = dis?

    abled (own selection for red, green and blue), 1 = enabled (same

    values for red, green and blue)

invert-shading-data:

    values: -1 = automatically set by driver - if known, 0 = dis?

    abled, 1 = enabled

    default = -1

    invert shading data before sending it back to the scanner

lamp-control-available:

    values: 0 = automatically set by driver - if known, 1 = avail?

    able

    default = 0

gamma-lsb-padded:

    values: -1 = automatically set by driver - if known, 0 = gamma

    data is msb padded, 1 = gamma data is lsb padded

    default = -1

handle-bad-sense-error:

    values: 0 = handle as device busy, 1 = handle as ok, 2 = handle

    as i/o error, 3 = ignore bad error code - continue sense handler

    default = 0

scsi-maxqueue:

    values: 1..# (maximum defined at compile time)

    default = 2

    most SCSI drivers allow internal command queueing with a depth

    of 2 commands. In most cases it does not mprove anything when

    you increase this value. When your SCSI driver does not support

    any command queueing you can try to set this value to 1.

The special device name must be a generic SCSI device or a symlink to

such a device. To find out to which device your scanner is assigned

and how you have to set the permissions of that device, have a look at

sane-scsi(5).

SCSI ADAPTER TIPS

The ISA-SCSI-adapters that are shipped with some Umax-scanners are not

supported very well by Linux (I suggest not to use it), the PCI-SCSI-

adapters that come with some Umax-scanners are not supported at all (as

far as I know). On other platforms these SCSI-adapters are not sup?

ported. So you typically need to purchase another SCSI-adapter that is

supported by your platform. See the relevant hardware FAQs and HOWTOs

for your platform for more information.

The UMAX-scanners do block the SCSI-bus for a few seconds while scan?

ning. It is not necessary to connect the scanner to its own SCSI-

adapter. But if you need short response time for your SCSI-harddisk

(e.g. if your computer is a file-server) or other SCSI devices, I sug?

gest you use an own SCSI-adapter for your UMAX-scanner.

If you have any problems with your Umax scanner, check your SCSI chain

(cable length, termination, ...).

See also: sane-scsi(5)

FILES

The backend configuration file:

/etc/sane.d/umax.conf

The static library implementing this backend:

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

The shared library implementing this backend:

/usr/lib64/sane/libsane-umax.so (present on systems that support

dynamic loading)

ENVIRONMENT

SANE_DEBUG_UMAX

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 128 requests all debug output to be printed.

Smaller levels reduce verbosity: SANE_DEBUG_UMAX values.

Number	Remark
0	print important errors (printed each time)
1	print errors
2	print sense
3	print warnings
4	print scanner-inquiry
5	print information
6	print less important information
7	print called procedures
8	print reader_process messages
10	print called sane-init-routines
11	print called sane-procedures
12	print sane infos
13	print sane option-control messages

Example:

export SANE_DEBUG_UMAX=8

BUGS

X-resolutions greater than 600 dpi sometimes cause problems.

SEE ALSO

sane(7), sane-scsi(5)

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