Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sane-plustek.5' command

$ man sane-plustek.5

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

NAME

sane-plustek - SANE backend for LM983[1/2/3] based USB flatbed scanners

DESCRIPTION

The sane-plustek library implements a SANE (Scanner Access Now Easy) backend that provides access to USB flatbed scanners based on National Semiconductor Merlin chipsets (LM9831, 9832 and 9833). If you're look? ing for parallel-port support for Plustek scanner please refer to the sane-plustek_pp(5) backend.

SUPPORTED DEVICES

The Backend is able to support USB scanner based on the National Semi? conductor chipsets LM9831, LM9832 and LM9833. The following tables show various devices which are currently reported to work. If your Plustek scanner has another Product ID, then the device is NOT supported by this backend.

Vendor Plustek - ID: 0x07B3

USB Model: ASIC: Properties: Prod-ID

OpticPro U12 LM9831 600x1200dpi 42bit 512Kb 0x0010

OpticPro UT12 LM9831 600x1200dpi 42bit 512Kb 0x0013

OpticPro UT12 LM9832 600x1200dpi 42bit 512Kb 0x0017

OpticPro UT16 LM9832 600x1200dpi 42bit 512Kb 0x0017

OpticPro U24 LM9831 1200x2400dpi 42bit 2Mb 0x0011

OpticPro U24 LM9832 1200x2400dpi 42bit 2Mb 0x0015

OpticPro UT24 LM9832 1200x2400dpi 42bit 2Mb 0x0017

Vendor KYE/Genius - ID: 0x0458

USB Model: ASIC: Properties: Prod-ID

Colorpage HR6 V2 LM9832 600x1200dpi 42bit 512Kb 0x2007

Colorpage HR6 V2 LM9832 600x1200dpi 42bit 512Kb 0x2008

Colorpage HR6A LM9832 600x1200dpi 42bit 512Kb 0x2009

Colorpage HR7 LM9832 600x1200dpi 42bit 512Kb 0x2013

Colorpage HR7LE LM9832 600x1200dpi 42bit 512Kb 0x2015

Colorpage HR6X LM9832 600x1200dpi 42bit 512Kb 0x2016

Vendor Hewlett-Packard - ID: 0x03F0

USB Model: ASIC: Properties: Prod-ID

ScanJet 2100C LM9831 600x1200dpi 42bit 512Kb 0x0505

ScanJet 2200C LM9832 600x1200dpi 42bit 512Kb 0x0605

Vendor Mustek - ID: 0x0400

USB Model: ASIC: Properties: Prod-ID

BearPaw 1200 LM9831 600x1200dpi 42bit 512Kb 0x1000

BearPaw 1200 LM9832 600x1200dpi 42bit 512Kb 0x1001*

BearPaw 2400 LM9832 1200x2400dpi 42bit 2Mb 0x1001

* see also description for model override switch below!

Vendor UMAX - ID: 0x1606

USB Model: ASIC: Properties: Prod-ID

UMAX 3400 LM9832 600x1200dpi 42bit 512Kb 0x0050

UMAX 3400/3450 LM9832 600x1200dpi 42bit 512Kb 0x0060

UMAX 5400 LM9832 1200x2400dpi 42bit 512Kb 0x0160

Vendor COMPAQ - ID: 0x049F

USB Model: ASIC: Properties: Prod-ID

S4-100 LM9832 600x1200dpi 42bit 512Kb 0x001A

Vendor Epson - ID: 0x04B8

USB Model: ASIC: Properties: Prod-ID

Perfection 1250 LM9832 1200x2400dpi 42bit 512Kb 0x010F

Perfection 1260 LM9832 1200x2400dpi 42bit 512Kb 0x011D

Vendor CANON - ID: 0x04A9

USB Model: ASIC: Properties: Prod-ID

CanoScan N650/656U LM9832 600x1200dpi 42bit 512Kb 0x2206

CanoScan N1220U LM9832 1200x2400dpi 42bit 512Kb 0x2207

CanoScan D660U LM9832 600x1200dpi 42bit 512Kb 0x2208

CanoScan N670/676U LM9833 600x1200dpi 48bit 512Kb 0x220D

CanoScan N1240U LM9833 1200x2400dpi 48bit 512Kb 0x220E

CanoScan LIDE20 LM9833 600x1200dpi 48bit 512Kb 0x220D

CanoScan LIDE25 LM9833 1200x2400dpi 48bit 512Kb 0x2220

CanoScan LIDE30 LM9833 1200x2400dpi 48bit 512Kb 0x220E

Vendor Syscan - ID: 0x0A82

USB Model: ASIC: Properties: Prod-ID

Travelscan 662 LM9833 600x1200dpi 48bit 512Kb 0x6620

Travelscan 464 LM9833 600x1200dpi 48bit 512Kb 0x4600

Vendor Portable Peripheral Co., Ltd. - ID: 0x0A53

USB Model: ASIC: Properties: Prod-ID

Q-Scan USB001 LM9832 300x600dpi 42bit 512Kb 0x1000

Q-Scan USB201 LM9832 300x600dpi 42bit 512Kb 0x2000

Vendor Visioneer - ID: 0x04A7

USB Model: ASIC: Properties: Prod-ID

Strobe XP100 LM9833 600x1200dpi 48bit 512Kb 0x0427

OTHER PLUSTEK SCANNERS

For parallelport device support see the sane-plustek_pp(5) backend.

The SCSI scanner OpticPro 19200S is a rebadged Artec AM12S scanner and is supported by the sane-artec(5) backend.

Only the National Semiconductor LM983[1/2/] based devices of Plustek are supported by this backend. Older versions of the U12, the UT12, the U1212 and U1248 (GrandTech chipset) are not supported.

Model Chipset backend

U1248 GrandTech gt68xx

UT16B GrandTech gt68xx

OpticSlim 1200 GrandTech gt68xx

OpticSlim 2400 GrandTech gt68xx

U12 P98003 u12

UT12 P98003 u12

1212U P98003 u12

For a more complete and up to date list see: http://www.sane-project.org/sane-supported-devices.html.

CONFIGURATION

To use your scanner with this backend, you need at least two entries in the configuration file /etc/sane.d/plustek.conf

[usb] vendor-id product-id

device /dev/usbscanner

[usb] tells the backend, that the following devicename (here /dev/usb? scanner) has to be interpreted as USB scanner device. If vendor- and

product-id has not been specified, the backend tries to detect this by its own. If device is set to auto then the next matching device is used.

The following options can be used for a default setup of your device. Most of them are also available through the frontend.

The Options:

option warmup t

t specifies the warmup period in seconds, if set to -1, the au? tomatic warmup function will be used

option lampOff t

t is the time in seconds for switching off the lamps in standby mode

option lOffonEnd b

b specifies the behaviour when closing the backend, 1 --> switch lamps off, 0 --> do not change lamp status

option mov m

m is the model override switch. It works only with Mustek BearPaw devices.

m/PID | 0x1000 | 0x1001

------+--------------+--------------

0 | BearPaw 1200 | BearPaw 2400

1 | no function | BearPaw 1200

option invertNegatives b

b 0 --> do not invert the picture during negative scans,

1 --> invert picture

option cacheCalData b

b 0 --> do not save calibration results,

1 --> save results of calibration in ~/.sane/ directory

option altCalibration b

b 0 --> use standard calibration routines,

1 --> use alternate calibration (only non Plustek devices, stan? dard for CIS devices)

option skipFine b

b 0 --> perform fine calibration,

1 --> skip fine calibration (only non Plustek devices)

option skipFineWhite b

b 0 --> perform white fine calibration,

1 --> skip white fine calibration (only non Plustek devices)

option skipDarkStrip b

b 0 --> perform dark calibration, with enabled lamp using the dark calibration strip of the scanner. If the scanner does not have such a strip, the alternative way is to switch off the lamp during this step.

1 --> always switch off the lamp for dark calibration, even a black strip is available

option skipCalibration b

b 0 --> perform calibration,

1 --> skip calibration (only non Plustek devices)

option enableTPA b

b 0 --> default behaviour, specified by the internal tables,

1 --> override internal tables and allow TPA mode (EPSON/UMAX only)

option posOffX x

option posOffY y

option tpaOffX x

option tpaOffY y

option negOffX x

option negOffY y

x y By using this settings, the user can adjust the given image positions. Please note, that there's no internal range checking for this feature.

option posShadingY p

option tpaShadingY p

option negShadingY p

p overrides the internal shading position. The values are in steps. Please note, that there's no internal range checking for

this feature.

option redGamma r

option greenGamma g

option blueGamma b

option grayGamma gr

r g b gr

By using these values, the internal linear gamma table (r,g,b,gr = 1.0)

can be adjusted.

option red_gain r

option red_offset ro

option green_gain g

option green_offset go

option blue_gain b

option blue_offset bo

r g b ro go bo These values can be used to set the gain and off?

set values of the AFE for each channel. The range is between 0

and 63. -1 means autocalibration.

See the plustek.conf file for examples.

Note:

You have to make sure, that the USB subsystem is loaded correctly and

you have access to the device-node. For more details see sane-usb(5)

manpage. You might use sane-find-scanner(1) to check that you have ac?

cess to your device.

Note:

If there's no configuration file, the backend defaults to device auto

FILES

/etc/sane.d/plustek.conf

The backend configuration file

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

The static library implementing this backend.

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

The shared library implementing this backend (present on systems

that support dynamic loading).

ENVIRONMENT

SANE_CONFIG_DIR

This environment variable specifies the list of directories that may contain the configuration file. Under UNIX, the directories are separated by a colon (`:'), under OS/2, they are separated by a semi-colon (`;'). If this variable is not set, the config? uration file is searched in two default directories: first, the current working directory (".") and then in /etc/sane.d. If the value of the environment variable ends with the directory sepa? rator character, then the default directories are searched after the explicitly specified directories. For example, setting SANE_CONFIG_DIR to "/tmp/config:" would result in directories tmp/config, ., and /etc/sane.d being searched (in this order).

SANE_DEBUG_PLUSTEK

If the library was compiled with debug support enabled, this en? vironment variable controls the debug level for this backend. Higher debug levels increase the verbosity of the output. Example: export SANE_DEBUG_PLUSTEK=10

SEE ALSO

sane(7), sane-usb(5), sane-u12(5), sane-gt68xx(5), sane-stek_pp(5), sane-find-scanner(1), scanimage(1), /usr/share/doc/sane-backends/plustek/Plustek-USB.changes

CONTACT AND BUG-REPORTS

Please send any information and bug-reports to:

SANE Mailing List

Additional info and hints can be obtained from our Mailing-List archive at:

http://www.sane-project.org/mailing-lists.html

To obtain debug messages from the backend, please set the environment-variable SANE_DEBUG_PLUSTEK before calling your favorite scan-frontend (i.e. scanimage(1)),i.e.:

export SANE_DEBUG_PLUSTEK=20 ; scanimage

The value controls the verbosity of the backend. Please note, that val?

ues greater than 24 force the backend to output raw data files, which could be rather large. The ending of these files is ".raw". For prob? lem reports it should be enough the set the verbosity to 13.

KNOWN BUGS & RESTRICTIONS

* The driver does not support these manic scalings up to 16 times the physical resolution. The only scaling is done on resolutions between the physical resolution of the CCD-/CIS-sensor and the stepper motor i.e. you have a 600x1200 dpi scanner and you are scanning using 800dpi, so scaling is necessary, because the sensor only delivers 600dpi but the motor is capable to perform 1200dpi steps.

* Plusteks' model policy is somewhat inconsistent. They sell techni? cally different devices under the same product name. Therefore it is possible that some devices like the UT12 or U12 won't work - please check the model list above and compare the product-id to the one your device has.

* Negative/Slide scanning quality is poor.