NAME

sane−lexmark − SANE backend for Lexmark X1100/X1200 Series scanners

DESCRIPTION

The **sane−lexmark** library implements a SANE (Scanner Access Now Easy) backend that provides access to the scanner part of Lexmark X1100/X1200 AIOs. This backend should be considered **beta-quality** software!

The scanners that should work with this backend are:

```
   Vendor Model            status
   ---------------------   -----------
   Lexmark X74             good
   Lexmark X1110           untested
   Lexmark X1140           untested
   Lexmark X1150           good
   Lexmark X1170           good
   Lexmark X1180           good
   Lexmark X1185           complete
   Lexmark X12xx           good in USB1.1,
                    not fully tested in USB2.0
   Dell    A920            good
```

The options the backend supports can either be selected through command line options to programs like scanimage or through GUI elements in xscanimage or xsane.

If you have any strange behavior, please report to the backend maintainer or to the SANE mailing list.

Valid command line options and their syntax can be listed by using
        scanimage −−help −d lexmark:usb:<usb port>

Scan Mode Options

−−mode

selects the basic mode of operation of the scanner valid choices are *Color*, *Gray* and *Lineart* The default mode is Color. The Lineart mode is black and white only (1 bit). Grayscale will produce 256 levels of gray (8 bits). Color mode allows for over 16 million different colors produced from 24 bits of color information.

−−resolution

selects the resolution for a scan. The horizontal and vertical resolutions are set by the value of this option. The scanner is capable of the following resolutions for the specified option value:

```
   Value   Hor. Resolution   Vert. Resolution
   -----   ---------------   -------------------
   75      75dpi             75dpi
   150     150dpi            150dpi
   300     300dpi            300dpi
   600     600dpi            600dpi
   1200    600dpi            1200dpi   (only for X11xx models with 'B2' sensor
```

−−preview

requests a preview scan. The resolution used for that scan is 75 dpi and the scan area and the scan mode are as specified through their options, or the default if not specified. The default value for preview mode is "no".

−−threshold

selects the minimum-brightness to get a white point. The threshold is only used with Lineart mode scans. It is specified as a percentage in the range 0..100% (in steps of 1). The default value of the threshold option is 50.

CONFIGURATION FILE

The configuration file @CONFIGDIR@/lexmark.conf contains only the usb device id (eg usb 0x043d 0x007c).

FILES

@LIBDIR@/libsane−lexmark.a
The static library implementing this backend.

@LIBDIR@/libsane−lexmark.so
The shared library implementing this backend (present on systems that support dynamic loading).

ENVIRONMENT

SANE_DEBUG_LEXMARK

SANE_DEBUG_LEXMARK_LOW If the library was compiled with debug support enabled, this environment 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.

LIMITATIONS

The windows TWAIN driver has many more options than this SANE backend. However they are only software adjustments. This backend only implements what the scanner can support. For instance, shading correction (vertical stripes due to sensor variation across its width) is done in software. Head park position is also detected by software. The data compression isn't supported for the X1200 series on USB 1.1, leading to slow scans.

BUGS

No bugs currently known.

SEE ALSO

sane−scsi(5), scanimage(1), xscanimage(1), xsane(1), sane(7)

AUTHOR

The backend was originally written by Fred Odendaal.
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The new version is currently developed by Stéphane Voltz.
http://stef.dev.free.fr/sane/lexmark

X74 support was written by Torsten Houwaart (<ToHo@gmx.de>)

CREDITS

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