

NAME

sane-leo – SANE backend for LEO Technologies scanners

DESCRIPTION

The **sane-leo** library implements a SANE (Scanner Access Now Easy) backend that provides access to some LEO SCSI flatbed scanners. This backend should be considered **beta-quality** software! LEO scanners were also sold under the Across Technologies brand.

The scanners that should work with this backend are:

Vendor Model	status
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Across FS-1130	tested
LEO S3	tested

The options the backend supports can either be selected through command line options to programs like **scanimage(1)** or through GUI elements in **xscanimage(1)** or **xsane(1)**.

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 leo`

Scan Mode**--mode**

selects the basic mode of operation of the scanner. Valid choices are *Black & White*, *Grayscale* and *Color*. The *Black & White* mode is black and white only (1 bit). *Grayscale* mode will produce 256 levels of gray (8 bits). *Color* mode will produce a 24 bit color image.

--resolution

selects the resolution for a scan. The scanner can do all resolutions between 1 and 300, in increments of 1.

Geometry options**-l -t -x -y**

control the scan area: `-l` sets the top left x coordinate, `-t` the top left y coordinate, `-x` selects the width and `-y` the height of the scan area. All parameters are specified in millimeters by default.

Enhancement options**--custom-gamma**

(grayscale and color mode only) allows the user to specify a gamma table (see the next 3 parameters).

--red-gamma-table

(color mode only) can be used to download a user defined gamma table for the red channel. The table must be 256 bytes long.

--green-gamma-table

(color mode only) can be used to download a user defined gamma table for the green channel. The table must be 256 bytes long.

--blue-gamma-table

(color mode only) can be used to download a user defined gamma table for the blue channel. The table must be 256 bytes long.

--halftone

(Black & White only) select the halftone mask to use. Possible values are *Diamond*, *8x8 Coarse Fattening*, *8x8 Fine Fattening*, *8x8 Bayer* and *8x8 Vertical Line*.

--preview

requests a preview scan. The resolution used for that scan is 28 dpi and the scan area is the maximum allowed. The scan mode is user selected. The default is "no".

CONFIGURATION FILE

The configuration file `/etc/sane.d/leo.conf` supports only one information: the device name to use (eg `/dev/scanner`).

FILES

`/usr/lib/x86_64-linux-gnu/sane/libsane-leo.a`

The static library implementing this backend.

`/usr/lib/x86_64-linux-gnu/sane/libsane-leo.so`

The shared library implementing this backend (present on systems that support dynamic loading).

ENVIRONMENT**SANE_DEBUG_LEO**

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

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.

BUGS

None known.

SEE ALSO

`sane-scsi(5)`, `scanimage(1)`, `xscanimage(1)`, `xsane(1)`, `sane(7)`

AUTHOR

The package is actively maintained by Frank Zago.

<http://www.zago.net/sane/#leo>