

**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` 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 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 will produce 256 levels of gray (8 bits). Color will produce a 24 bits 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 @CONFIGDIR@/leo.conf supports only one information: the device name to use (eg /dev/scanner).

**FILES**

@LIBDIR@/libsane-leo.a

The static library implementing this backend.

@LIBDIR@/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>*