



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

\$ man sane-matsushita.5

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

NAME

sane-matsushita - SANE backend for Panasonic KV-SS high speed scanners

DESCRIPTION

The sane-matsushita library implements a SANE (Scanner Access Now Easy) backend that provides access to some Panasonic KV-SS high speed scanners. This backend is stable.

At present, the following scanners are known to work with this backend:

Product id

KV-SS25

KV-SS25D

KV-SS55EX (*)

KV-S2025C (*)

KV-S2045C (*)

KV-S2065L (*)

(*) WARNING: None of the advanced options of these scanners are available

(ie no color, no high resolution, no automatic cropping). Basically,

the driver does no more than what it does for the KV-SS25. I

don't have access to such scanners, and thus cannot add these options.

Other Panasonic high speed scanners may or may not work with that backend.

end.

Valid command line options and their syntax can be listed by using

scanimage --help -d matsushita

Scan Mode

--mode selects the basic mode of operation of the scanner.

--resolution

selects the resolution for a scan. Each model supports all or a subset of these resolutions: 100, 150, 200, 240, 300, 360, 400.

--duplex

indicates whether to scan both side of the sheet.

--feeder-mode

selects the number of pages to scan (one or until the tray is empty).

Geometry

--paper-size A4|[Legal|Letter [A4]

options selects the area to scan. It adjust the -l -t -x -y options accordingly. It does not need to be the real size of the paper.

-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. It is possible to use the option --paper-size instead.

Enhancement

--brightness

controls the brightness of the acquired image. The value varies from 1 to 255, or less, depending on the scanner model.

--contrast

controls the contrast of the acquired image. Some models do not support that option.

--automatic-threshold

automatically sets brightness, contrast, white level, gamma, noise reduction and image emphasis. These options are not available when automatic-threshold is in use.

--halftone-pattern

option sets the tonal gradation for the halftone mode. Pattern downloading is not implemented by the backend.

--autoseparation

provides automatic separation of text and images.

--white-level

option indicate the source of the white base.

--noise-reduction

reduces the isolated dot noise. This option is not supported by all scanners.

--image-emphasis

option sets the image emphasis. Some selection are not available on all scanners.

--gamma

options set the gamma curve. It is only valid for Gray modes, and is not available on all scanners. Gamma downloading is not implemented by the backend.

CONFIGURATION FILE

The configuration file `/etc/sane.d/matsushita.conf` supports the device name to use (eg `/dev/scanner`) and the SCSI option to auto-detect the scanners supported.

FILES

`/usr/lib64/sane/libsane-matsushita.a`

The static library implementing this backend.

`/usr/lib64/sane/libsane-matsushita.so`

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

ENVIRONMENT

SANE_DEBUG_MATSUSHITA

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

Memory in the KV-SS 25

The KV-SS 25 has not enough internal memory to scan a whole A4 page in duplex mode at high resolution. The frontend will return a memory error in that case. Apparently, the KV-SS 25D has not that problem.

Pattern and gamma downloading

The scanner, with the proper firmware, can download a halftone pattern and a gamma table. This is not implemented.

Sub-areas

The scanner can support up to 3 sub-areas on each side to define some more precise enhancement options. This is not implemented.

Duplex mode

The backend does not support the setting of different options for each side. The scan will occur with the same options (half-tone pattern, brightness, image emphasis) for both sides.

SCANNING EXAMPLE

To date, the only frontend capable of using this scanner at full speed is scanadf(1).

A scanadf(1) command line would be:

```
scanadf -d matsushita --output-file scan%04d.pbm --start-count 0 --duplex --resolution 300 --feeder-mode="All pages" --paper-size="A4"
```

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/#matsushita>

11 Jul 2008

sane-matsushita(5)