

Scanner Driver for Red Hat® Linux®

If you install this scanner driver, you can scan with SANE (Scanner Access Now Easy) compliant applications.

On how to scan, refer to the manual of each application.

<Hardware requirements>

To use this software, the following hardware is required.

OS:	Red Hat Enterprise Linux® Desktop 6 (32bit / 64bit) Red Hat Enterprise Linux® Desktop 7 (64bit) If your PC is equipped with the USB3.0, please use the RHEL 7.
Device:	KV-S1026C / KV-S1015C KV-S1038 / KV-S1037 / KV-S1026C MK2 KV-S1037X KV-S1065C / KV-S1046C KV-S1057C / KV-S1027C KV-S1058Y / KV-S1028Y / KV-S1057C MK2 / KV-S1027C MK2 KV-SL1066 / KV-SL1056 / KV-SL1055 / KV-SL1036 / KV-SL1035 KV-S2087 KV-SL3066 / KV-SL3056 / KV-SL3055 / KV-SL3036 / KV-SL3035 KV-S5076H / KV-S5046H KV-S7097 / KV-S7077 KV-S8147 / KV-S8127 / KV-S8150 / KV-S8130 / KV-S8120 KV-N1058X / KV-N1058Y / KV-N1028X / KV-N1028Y KV-SL1077 MK2 / KV-SL1066 MK2 / KV-SL1056 MK2 / KV-SL1055 MK2 / KV-SL1036 MK2 / KV-SL1035 MK2 KV-S5078Y / KV-S5058 KV-SL5100 MK2 / KV-SL5096 MK2 / KV-SL5095 MK2 / KV-SL5086 MK2 / KV-SL5085 MK2 KV-S6120 / KV-S6110 / KV-S6100
Option(Flatbed):	KV-SS081 (except for KV-S7097 / KV-S7077 KV-SL3066 / KV-SL3056 / KV-SL3055 / KV-SL3036 / KV-SL3035)
Connection I/F:	USB

<File download>

libsane-panakvs-1.7.0-i686.tar.gz (32bit)

libsane-panakvs-1.7.0-x86_64.tar.gz (64bit)

The following is explained using Red Hat Enterprise Linux Desktop 6 (32bit).

<Installing the scanner driver>

1) Select the downloaded file "libsane-panakvs-1.7.0-i686.tar.gz", uncompress it by selecting "Extract Here" in the right button menu.

2) Open Terminal Application.

3) Login as administrator.

```
$ su
```

(Password may be needed.)

4) Move to the directory where the file is uncompressed.

e.g.) If you uncompress the file at the desktop:

```
# cd /home/user_name*/Desktop/libsane-panakvs-1.7.0-i686
```

(*1 user_name: Follow the setting of the PC.)

5) Install the scanner driver.

```
# ./install-driver
```

Close the Terminal application.

<Preparing to scan>

When the user does not have an administrator privilege, the following preparations are needed.

<For Red Hat Enterprise Linux® Desktop 6>

1) Open the following file with text editor. (Administrator privilege is needed.)

```
/lib/udev/rules.d/65-libsane.rules
```

e.g.) Open Terminal application, and login as administrator. Input the following command.

```
# gedit /lib/udev/rules.d/65-libsane.rules
```

The file name "65-libsane.rules" may differ between PC environments.

In that case, find "libsane.rules" file using the following command and edit it.

```
$ ls /lib/udev/rules.d | grep libsane
```

2) Add the following device information at the device information area in the file.

```
# Panasonic Document Scanner KV-S1026C
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="1015", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1015C
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="1014", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1065C
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="1012", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1046C
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="1013", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SS081
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="1016", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1057C
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e69", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1027C
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e6a", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1066
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e6b", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1056
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e6d", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1055
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e83", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1036
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e6c", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1035
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e82", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S2087
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0ef2", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL3066
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fba", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL3056
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fbb", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL3055
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fbc", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL3036
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fbd", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL3035
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fbe", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S5076H
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e3f", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S5046H
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0e3e", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S7097
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0f7f", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S7077
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0f7e", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S8147
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fa0", ENV{libsane_matched}="yes"
```

```
# Panasonic Document Scanner KV-S8127
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0faa", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S8150
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fab", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S8130
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fac", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S8120
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fad", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1037X
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fce", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1038
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fcf", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1026C MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd0", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1037
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd1", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1027C MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd6", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1057C MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd7", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1028Y
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd8", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S1058Y
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd9", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-N1028Y
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd2", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-N1058Y
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd3", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-N1028X
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd4", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-N1058X
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="0fd5", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1066 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10bb", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1056 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10ba", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1055 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10b9", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1036 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10b8", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1035 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10b7", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL1077 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10e2", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S5078Y
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10e3", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S5058
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10e4", ENV{libsane_matched}="yes"
```

```
# Panasonic Document Scanner KV-SL5100 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10e6", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL5096 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10e7", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL5095 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10e8", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL5086 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10e9", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-SL5085 MK2
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="10ea", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S6120
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="11a3", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S6110
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="11a4", ENV{libsane_matched}="yes"
# Panasonic Document Scanner KV-S6100
ATTRS{idVendor}=="04da", ATTRS{idProduct}=="11a5", ENV{libsane_matched}="yes"
```

3) Save the file, and reboot OS.

<For Red Hat Enterprise Linux Desktop 7>

- 1) Open the following file with text editor. (Administrator privilege is needed.)

`/lib/udev/rules.d/50-udev-default.rules`

e.g.) Open Terminal application, and login as administrator. Input the following command.

```
# gedit /lib/udev/rules.d/50-udev-default.rules
```

- 2) Modify "MODE" for "usb_device" in the file.

From: `SUBSYSTEM=="usb", ENV{DEVTYPE}=="usb_device", MODE="0664"`

To: `SUBSYSTEM=="usb", ENV{DEVTYPE}=="usb_device", MODE="0666"`

- 3) Save the file, and reboot OS.

<Information for scanning>

- When scanning without changing any settings, resolution may be different from the GUI.

Please set any setting before first scan.

- Scanning may fail if using high resolution on a PC environment.

In that case, scan using a lower resolution.

- When scanning arbitrary area with ADF, please note this.

The maximum document width is

KV-SL3066 / KV-SL3056 / KV-SL3055 / KV-SL3036 / KV-SL3035	: 216mm
KV-S1038 / KV-S1037 / KV-S1026C MK2	: 216mm
KV-S1037X	: 216mm
KV-S1058Y / KV-S1028Y / KV-S1057C MK2 / KV-S1027C MK2	: 216mm
KV-S7097 / KV-S7077	: 302mm
KV-S5076H / KV-S5046H	: 307mm
KV-S8147 / KV-S8127 / KV-S8150 / KV-S8130 / KV-S8120	: 307mm
KV-N1058X / KV-N1058Y / KV-N1028X / KV-N1028Y	: 216mm
KV-SL1077 MK2 / KV-SL1066 MK2 / KV-SL1056 MK2 / KV-SL1055 MK2 /	
KV-SL1036 MK2 / KV-SL1035 MK2	: 216mm
KV-S5078Y / KV-S5058	: 307mm
KV-SL5100 MK2 / KV-SL5096 MK2 / KV-SL5095 MK2 / KV-SL5086 MK2 /	
KV-SL5085 MK2	: 307mm
KV-S6120 / KV-S6110 / KV-S6100	: 307mm
Other models	: 210mm

Please specify scan area as follows.

tl-x: $(\text{maximum document width} - \text{document width}) / 2 + \text{scan start position x}$

tl-y: scan start position y

br-x: tl-x + scan area width

br-y: tl-y + scan area length

(e.g.) If you want to scan 100mm × 100mm area from the upper left corner of A5 (148.5mm × 210mm) with KV-S8147,

tl-x: $(307\text{mm} - 148.5\text{mm}) / 2 = 79.3\text{mm}$

tl-y: 0mm

br-x: $79.3\text{mm} + 100\text{mm} = 179.3\text{mm}$

br-y: 100mm

- If you change the USB port from 2.0 to 3.0, please turn the power off the scanner and on.
- If an error occurs in your PC that has USB3.0 ports, please use a USB2.0 port alternatively.
If that is still no good, please disable USB3.0 function by the BIOS setting in your PC.
- XSane application may not launch normally after updating the scanner driver.

In that case, please clear the cache data of XSane.

e.g.) Open Terminal application. Input the following command.

```
$ rm -r ~/.sane/xsane
```

- If the “Double feed detection” function is set to “Pause”, scanning will be paused if a double feed is detected during scanning. (Supported model only)

At this time, the notification of double feed will not be displayed on the PC screen.

Please check the status on the scanner's LED or LCD display, and then operate the scanner from the operation panel.

Refer to the operating manual for the operation of the scanner.

<Uninstalling the scanner driver>

1) Open Terminal application.

2) Login as administrator.

```
$ su
```

(Password may be needed.)

3) Uninstall the scanner driver.

Move to the folder where the uninstaller is, then execute "uninstall-driver".

```
# cd /usr/local/share/panasonic/DocumentScanner
```

```
# ./uninstall-driver
```

Close the Terminal application.

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