SP Series					
Image scanner	driver	for Linux	2. 1. 1-4		
README file					

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This file includes important notes on this product and also the additional information.

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### 1. Use in High-Safety Applications

This product has been designed and manufactured on the assumption that it will be used in office, personal, domestic, regular industrial, and general-purpose applications.

It has not been designed and manufactured for use in applications (simply called "high-safety applications" from here on) that directly involve danger to life and health when a high degree of safety is required, for example, in the control of nuclear reactions at nuclear power facilities, automatic flight control of aircraft, air traffic control, operation control in mass-transport systems, medical equipment for sustaining life, and missile firing control in weapons systems, and when provisionally the safety in question is not ensured. The user should use this product with adopting measures for ensuring safety in such high-safety applications. PFU Limited assumes no liability whatsoever for damages arising from use of this product by the user in high-safety applications, and for any claims or compensation for damages by the user or a third party.

# 2. Copies

- Scanning paper currencies, negotiable instruments or official documents with a scanner, printing them out with a printer and using their unauthorized copy is a violation of the law regardless of their printed matter, and you will be subject to punishment.
- Making a copy of creative works such as newspapers, magazines, books which are subject to copyright protection, without permission of the right holder, except the reproduction for personal use, for private use at home or equivalent purpose within the limited range, is prohibited by law. Use the data scanned with a scanner within the range of private use.

3. System Requirements

- Operating system Ubuntu 20.04 LTS (Desktop, 64bit)
- CPU Intel(R) Core(TM) i5 desktop processor 2.5 GHz or higher recommended
- Memory

### 4. Installation/Uninstallation

Notes: The following installation/uninstallation procedure is explained with an example taken from the SP Series driver (for Ubuntu 64bit). When reading this procedure, replace the package name (pfusp) and the package file name (pfuspubuntu20.04\_2.1.1-4\_amd64.deb) with the relevant ones in accordance with the scanner and OS that you are using.

- Preparation in advance

- Copy this product package to the computer that you intend to install it
- Turn off the scanner and disconnect the USB cable that is connected to the computer.

How to install

The installation procedure is as follows:

- (1) Start up and log into Ubuntu, and then open terminal software.
- (2) Execute the "sudo" command and enter the super user (root user) password to become a root user.
- (3) Execute the "uname -m" command to check that the OS type of Ubuntu matches the one that you desire.
- (4) By using the "cd" command, open the folder that the package of pfusp-ubuntu20.04\_2.1.1-4\_amd64.deb is saved in.
  (5) Execute "dpkg -i pfusp-ubuntu20.04\_2.1.1-4\_amd64.deb" to install the
- (6) Execute "dpkg -I pfusp" to check that the package has been installed successfully. When the package name "pfusp" is displayed, the installation is successfully complete.

(7) Connect the scanner to the computer and turn on the scanner.

- (8) Start up a tool to check operations such as "scanimage" and check the scanning operations.
- How to uninstall

The uninstallation procedure is as follows:

- (1) Turn off the scanner.
- (2) Open terminal software.
- (3) Execute the "sudo" command and enter the super user (root user) password to become a root user.

- (4) Execute "dpkg -r pfusp" to uninstall the package.
  (5) Execute "dpkg --purge pfusp" to delete the information of the package.
  (6) Execute "dpkg -l pfusp" to check that the package has been uninstalled successfully. When the package information of "pfusp" is not shown, the uninstallation is complete successfully.
- Complementary information
  - Uninstalling this product does not delete the scanned images.
  - To know the OS type, check the execution result of "uname -m".

     When "i386" or "i686" is shown, the type is a 32bit operating system.

     When "x86\_64" is shown, the type is a 64bit operating system.

## 5. Monitoring Tool for the [Scan] button

This tool monitors the [Scan] button and executes the "scanimage" command to scan a document when it detects that the [Scan] button has been pressed. The following describes how to use this tool:

(1) How to start up and stop the monitoring tool

The monitoring tool does not start up immediately after it is installed. To start up or stop this tool, perform the following operation as a super user (root).

Starting up the monitoring tool /etc/init.d/pfuspscanbutton start Stopping the monitoring tool /etc/init.d/pfuspscanbutton stop

To run the monitoring tool as a resident tool automatically after the system

is started-up, this tool must be registered.

Use the "update-rc.d" command to register this tool in the system or to unregister this tool from the system.

Example: Registering: update-rc.d -f pfuspscanbutton defaults Unregistering: update-rc.d -f pfuspscanbutton remove

(2) The destination that the scanned images are saved in

When the [Scan] button is pressed to scan a document, the scanned image is saved in the current time folder that is created in the following folder.

/opt/pfusp/image

The created image file has the attributes below. In addition, the image is output in the PNM image format by default.

Owner: root Permission: 644

(3) How to change the scan parameters

When the [Scan] button is pressed, the scan is performed in accordance with

the configuration file below.

To change the scan parameters, edit the configuration file below. Note that the default image format is tiff or PNM due to the specifications of "scanimage" . To change the image format to a different format, use an image conversion application or another tool.

/opt/pfusp/etc/pfuspscanbutton.conf

Example of the configuration file: When this tool is installed, the configuration file with the following parameters is also installed: scanimage --batch --format=pnm --source "Adf-duplex" --mode Color --

resolution 200 —autofeed=yes

\*Notes: The contents of this configuration file cannot be written as a shell script. This file can be used only as an option for the "scanimage" command.

(4) Points of attention

- When the scanner is in use (for example, when a scanning application is using the scanner), the monitoring tool cannot start scanning even if the [Scan]

On the other hand, when a scan is being performed by the monitoring tool due to the [Scan] button being pressed, other applications cannot start scanning. - The monitoring tool can monitor only one scanner. When multiple scanners are connected to the computer, the monitoring tool does not run correctly.

## 6. Notes on Scanning

- Do not let your computer enter standby mode during scanning. Otherwise, scanning may fail due to the "Error during device  $\rm I/0"$  error and so on.
- Do not unplug the power cable or interface cable during scanning. Otherwise, scanning may fail due to the "Error during device I/O" error and so on. In that case, connect the USB cable again and power on the scanner to make the computer recognize the scanner.
- Do not log off your computer during scanning. Otherwise, scanning may fail due to the "Error during device I/0" error and so on.
- Do not stop an application with the job control function ("Ctrl+z") during

When you resume the application, it may not operate properly, outputting an error such as "Error during drive I/0". In such a case, exit the application.

		Settings

Notes on the following scanning options are described.

(1) autofeed

A preceding scan is performed by using the cache memory in the scanner. Because all sheets that are loaded in the feeder are fed, if an application stops the scanning process along the way, the scanned images that remain in the cache memory are discarded. By default, this option is set to "yes". To scan one

sheet per scan, set this option to "no".

(2) page-auto

When the crop function is used, the function to specify the scanning area cannot be used.

Options -I, -t, -x, -y are ignored. - When paper larger than the specified paper size is scanned, the crop function is not available.

(3) scanning area(-x, -y)

- If you specify a size that is larger than an A4 size paper for "page-width" and "page-height" when the cropping function is not used, specify the same value for -x and -y.

Otherwise, the "Document feeder jammed" error may occur.

The following component is used in this product:

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