Image Scan v3 Manual

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2. Overview

Image Scan v3 is Linux software for Epson scanners.

Image Scan v3 has own front-end, it allows to set various scanner settings with graphical user interface and save the scanned images to the various file type.
It supports USB and network connection for the network capable scanners.
Scanner can be controlled via not only own front-end but also command line option.

3. Support

There is no official support provided for this software.

- For information regarding scanner hardware, repairs and replacement parts, please contact your local Epson dealer.

4. Supported Devices

- Epson Scanner
- Epson Multi Function Printer

5. Notes/Limitations

- This guide contains information on using Image Scan v3.
  For information about your scanner, see the manual shipped with your scanner.
- Some screen shots in this guide may be different from yours.
  This difference does not change the instructions.
- Commands are indicated in fixed width font.

6. Usage Information

6.1. Installing the software

Please install in one of the following ways the downloaded package.

6.1.1. Auto Installation in script

Please run the script (install.sh) included in the downloaded package from terminal.

./install.sh

If you cannot install correctly by specifying install script, please refer "README" included in the script.

Also, you can confirm the brief description by specifying the command as below.

./install.sh --help

6.1.2. Installation in command

If you installed in command, you must install multiple packages.

Open Terminal, then install the packages in the described order then from the command line.

Note:The following commands needs to be performed as a root privilege.

[RPM]

1. Installing core package

   # rpm --upgrade imagescan-${ver}-${rel}epson4fedora.${arch}.rpm

2. Installing network plug-in package (When network scanning is required)

   # rpm --upgrade imagescan-plugin-networkscan-${ver}-${rel}epson4fedora.${arch}.rpm

[DEB]

1. Installing core package

   # dpkg --install imagescan_${ver}-${rel}epson4ubuntu_${arch}.deb

2. Installing network plug-in package (When network scanning is required)

dpkg --install imagescan-plugin-networkscan_${ver}-${rel}epson4ubuntu_${arch}.deb

Abbreviations used for package representations mean as follows:

$ver : package version

$rel : package release number

$arch : package architecture

※If you want to perform a network scan, you must configure the network-plugin.
Ref:「7. Configuring SANE Network」

6.1.3. Installation the package manager

You can install the package of this driver software by using package manager.
Note: The following description may be different on your environment.

- Double-click the Image Scan! for Linux binary package icon to install it.

- If you can find install option by right clicking on the package icon that you have downloaed(.dev / .rpm), you can specify it.

Please run the package installation in the following order.

1. core package
2. network plugin package

6.1.4. Notes for installation

An error might be occurred during the installation of Image Scan v3.

In that case, try the following workaround.

- **The package installation order is not correct.**

  Workaround：

  Try the installation as following to the procedures described in <u>"6.1. Installing the software"</u>.

  By using the auto installation script, it will install the package automatically in the correct order.

- **Suitable package for your distribution is not installed.**

  Workaround：

  Each package's name includes the target distribution.

  exp） imagescan_3.10.0-1epson4ubuntu14.04_amd64.deb

  → ubuntu14.04 amd64(64 bit) package

  Select the suitable package for your distribution and try to install again.

  *if your distribution is not supported, try to build from the source fileand install it.

- **Part of the package needed to install the Image Scan v3 is missing**

  Workaround：

  # imagescan depends on libgraphicsmagick3 (>= 1.3.11); however:
  Version of libgraphicsmagick3 on system is 1.3.5-6.
  # imagescan depends on libjpeg8 (>= 8c); however:
  Package libjpeg8 is not installed.

  For example, if you install from the command line, the above error is displayed. Try again installation of image scan v3 after you have installed the missing package(s) that indicated in red characters as below.

  [RPM]

yum install libgraphicsmagick3

yum install libjpeg8

or (In the case of openSUSE)

zypper install libgraphicsmagick3

zypper install libjpeg8

[DEB]

apt-get isntall libgraphicsmagick3

apt-get isntall libjpeg8

※The above commands need to be performed as a root privilege.

6.2. Deletion of Software

You can uninstall the package of this driver software by using package manager, etc.
Or you can also uninstall this software package by opening a terminal and using command lines input.
Note: The following commands needs to be performed as a root privilege.

[RPM]

1. Uninstallation of Network plugin package

    Note: Execute the following command only if you installed network plugin package.

    # rpm -e imagescan-plugin-networkscan

2. Uninstallation of Core package

    # rpm -e imagescan

[DEB]

1. Uninstallation of Network plugin package

   Note: Execute the following command only if you installed network plugin package.

   # dpkg --remove imagescan-plugin-networkscan

2. Uninstallation of Core package

   # dpkg --remove imagescan

6.3. Overview on Scanning

You can scan an image with Image Scan! for Linux using the following steps.

1. Make sure the scanner and the computer connected to the scanner are turned on.

2. Place a document on the scanner. See the user's guide of the scanner.

3. Run Image Scan v3 on your computer.
   See "6.4. Running Image Scan v3".

4. The main window appears.
   If model of multiple is connected to the computer, select the scanner.

(If only one model is connected, you do not require to select.)

See .

5. Press the button on the right top of the main window.

   Setting items corresponding to the button will be displayed.

   Make settings such as document source, image type, and resolution.

   See "General settings" "Geometry settings" "Enhancement settings" "Other settings"

6. If you want to confirm preview image, click the Refresh button to preview the full page.

   See "Refresh button"

7. Click the Scan button to start the image capture.

   You must specify a file name and directory.

   Select the extension of image format you want to save.

   See "Scanning an Image"

6.4. Running Image Scan v3

You can start Image Scan v3 either from the command line or .

6.4.1. From the command line

At the command prompt, specify the following command to start Image Scan v3.

$ imagescan

If more than one scanner are connected to the network, select a scanner you want to use.
See "6.4.3. Select scanner"

6.4.2. Start from the menu

Select the icon of "Image Scan" in the menu.
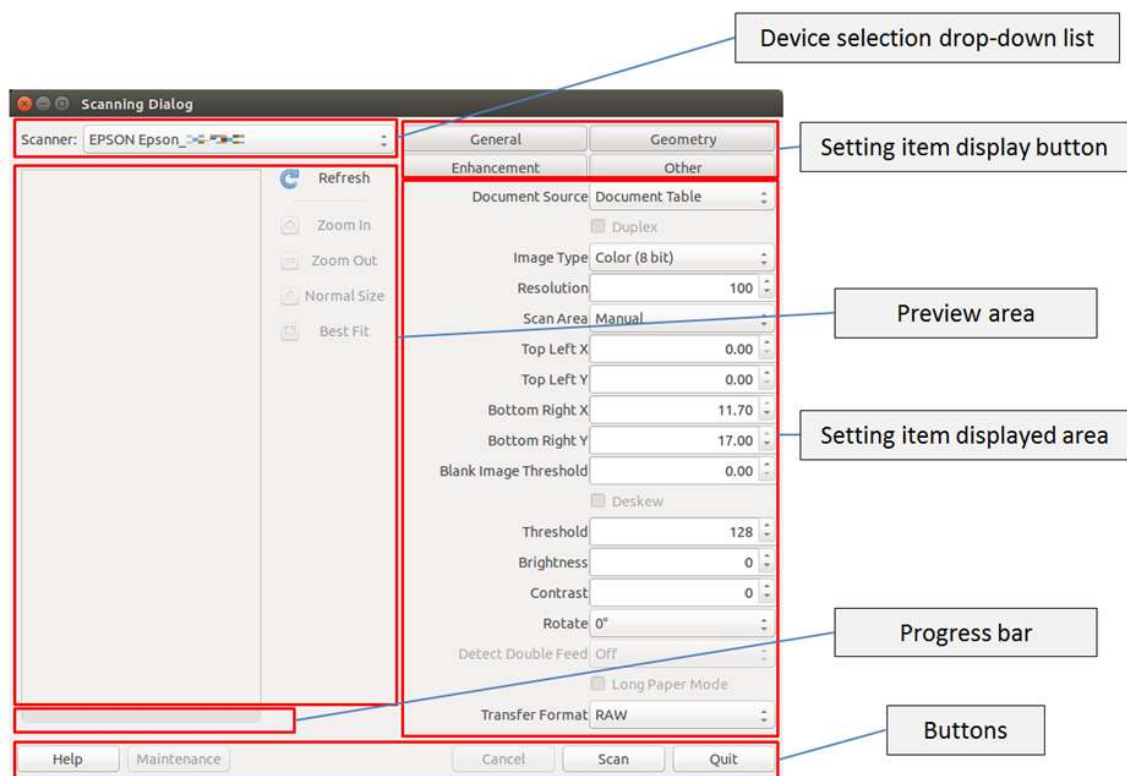Note: Menu depends on your environment.

6.4.3. Select scanner

If more than one scanner are connected to the network,
item at the top left of main window is displayed as "Select a device".
Select a scanner you want to use.

6.5. Main Window

The main window allows you to make the following settings.

Press the button on the top right of the main window. Setting items corresponding to the button will be displayed.

[General] and [Geometry] are displayed by default at startup.

When you do not need item, you can switch to non-display by pressing again the button at the top right.

[Refresh] button

Before you scan an image, you can use the Preview window to see the effects of some Image Scan v3 settings.

Note: Even if multiple pages are set on ADF, the first page is only previewed.

[Preview Window] operation

Manipulate visually for preview image displayed in the preview area.

Zoom in :

Display an enlarged view of the preview image. Increase the magnification by clicking continuously.

Zoom out :

Display a reduced view of the preview image. Decrease the magnification by clicking continuously.

Normal size :

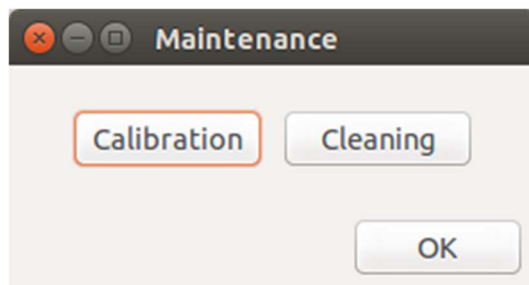Display the scanned image in the output image size in the preview area.

Best fit :

Display the scanned image to fit the preview area.

[Maintenance] button

This button is displayed when the scanner that has cleaning, calibration function.

Press the button, then the following dialog box is displayed.

Calibration :

Start calibration.

Cleaning :

Start cleaning.

[Quit] button

Click the Quit button to terminate the application.

[Cancel] button

    Click the Cancel button to cancel scanning.

[Scan] button

   Click the Scan button to start scanning.
    After clicking this button, determine the file name and directory.
    For detailed information, see "Scanning an Image" on page 12.

Scanning an image

- When you click on the Scan button, the following window is displayed.
- Specify the directory.
- Specify the extension of the file format in the file name.
- Start scanning to click the save button, then the image is saved.

    When you want to stop scanning, click the cancel button.
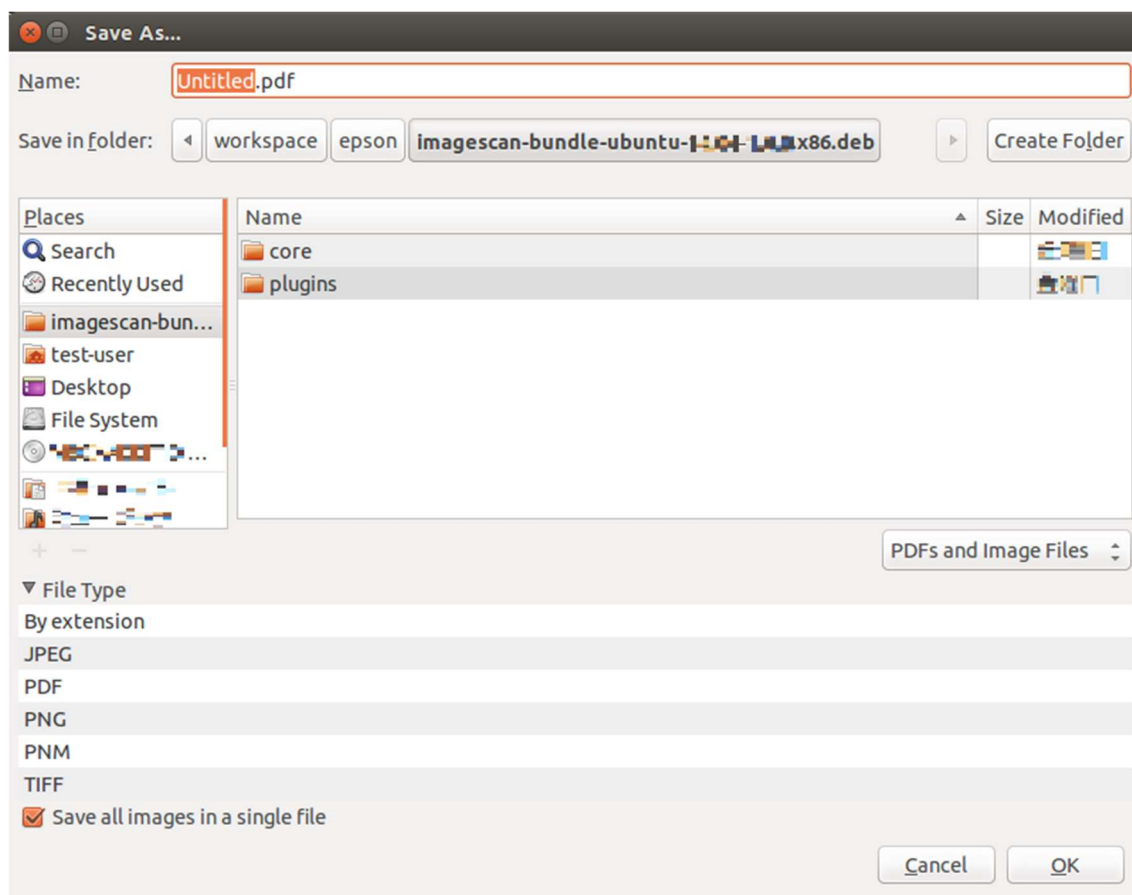
Specify the file extension as below for the file type that you want to save.

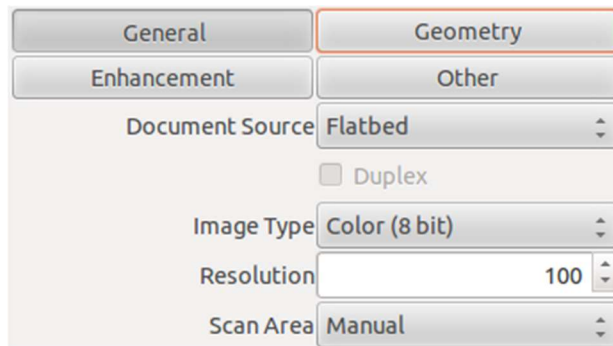| File Type	Extension
JPEG	.jpg .jpeg
PDF	.pdf
PNG	.png
PNM	.pnm
TIFF	.tiff

Save all images in a single file

This option is enabled in the following condition :

- ADF is selected for Document Source
- TIFF or PDF is selected for File Type

When this option is selected, multiple pages are saved in single file.

General settings

[Document Source]

Select the Document Source from the following choices.

Flatbed :

　Select Flatbed to scan reflective document.

ADF :

　elect ADF – When using the ADF (Auto Document Feeder) to load your
documents.

※In the case of duplex-ADF supported model, the check box of Duplex can be
selected.

[Image Type]

By selecting the image type, color of the image to capture is set.

Color (8 bit) :

　Scanning at Color(8-bit for each R/G/B channel)

Gray (1 bit) :

　Scanning at Monochrome

Gray (8 bit) :

　Scanning at 8-bit grayscale

[Resolution]

Select resolution setting.

※The available resolution settings depend on the connected scanner.

[Scan Area]

Select scanning area. If you set to Manual, you can specify scanning are by editing [Geometry settings].

- Cropping to size of the document by select the [Automatic].
- [Automatic] can be selected only when these features are supported.

Geometry settings

Specify scanning are manually.

The unit is in inch.

General	Geometry
Enhancement	Other
Top Left X	0.00
Top Left Y	0.00
Bottom Right X	5.04
Bottom Right Y	7.17

Enhancement settings

General	Geometry
Enhancement	Other
Blank Image Threshold	0.00
☐ Deskew	
Threshold	128
Brightness	0
Contrast	0
Rotate	0°

[Blank Image Threshold]

Adjust the threshold to be used for Blank Image Threshold.

Blank image skip is OFF when the 0.

Other values, do the blank image skip, depending on the threshold.

[Deskew]

Detects the skew of the original images and corrects them.

- [Deskew] can be selected only when the ADF is set to the document source.
- [Deskew] can be selected only when these features are supported.

[Dropout]

Select the dropout color.

- None
- Blue
- Green
- Red

[Threshold]

Set the threshold of monochrome scanning.

※When the Image Type is selected to Color(8 bit) or Gray(8bit), [Threshold] does not affect the output result even if adjusting the value.

[Brightness]

Adjust the brightness of the image.

Value range : −100(Dark)~+100(Bright) (Increments of 1)

[Contrast]

Adjust the contrast of the image.

Value range : −100(Low)~+100(High) (Increments of 1)

[Rotate]

Setting the rotation of the image.

- None
- 90 degrees

- 180 degrees
- 270 degrees
- 360 degrees
- Auto

If you select [Auto] to automatically set the rotation angle by the contents of the original document.

Other settings

General	Geometry
Enhancement	Other

Detect Double Feed | Off ⬍

☐ Long Paper Mode

Transfer Format | RAW ⬍

[Detect Double Feed]

Set the setting for Detect Double Feed.

Off

Normal :
  For document of standard thickness.

Sensitive :
  For document of thin thickness.

- [Detect Double Feed] can be selected only when the ADF is set to the document source.
- The Detect Double Feed (Paper Thickness) option is only available when connecting the scanner that supports this feature.

[Long Paper Mode]

Change to the mode that scans in the long paper.

After the [Long Paper Mode] selection, please specify the height at the Geometry.

- Long paper mode will not be able to run the preview.

[Transfer Format]

Select image transfer format from the scanner.

JPEG

RAW

- [Transfer format] is only available when connecting the scanner that supports this feature.
- [Transfer format] is different from the image file format to be saved.

7. Setting Network Plug-in

This chapter explains how to set the connection from Image Scan! for Linux to a scanner that is directly attached to the network.

By using the network plug-in, you can connect to a scanner that is directly attached to the network.

Please note that scanning over the network is only supported in a client/ server setup. Scanners directly attached to the network are not supported.

1. Connect the scanner to the network and set the IP address.
   For information on how to set the IP address, refer to the user manual shipped with your scanner.

2. Please edit /etc/imagescan/imagescan.conf file by using root privileges as below.

   Example:

   [device]
   net.udi = networkscan:esci://[IP address]:[Port number]
   net.vendor = Epson

net.model = DS-XX00
net.name = My Network Scanner

vendor : Vendor name on Main Window.

model : Model name on Main Window.

name : If you want to change the display name, specify this item.

If this item is not specified, vendor+model is displayed.

※[Port number] must be set to 1865

※vendor / model / name = optional items

exp) When the IP address is xxx.yyy.zzz.www, specify as follows.

net.udi = networkscan:esci://xxx.yyy.zzz.www:1865

3. Launch Image Scan v3.

   If it identifies the scanner on the network properly, it will work without any problems.

   At this time, if multiple scanners are connected, select the appropriate scanner as well as local connection.

   See "6.4.3. Select scanner"

8. Scanning by command line

Image Scan v3 can capture image from the command line ([Main] window is not displayed).

About available options, refer to help that is displayed when specifying the following command.

$ imagescan --no-interface --help