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## Canon PS Printer Driver for Linux Version 2.20

PLEASE READ THIS DOCUMENT CAREFULLY

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#### 1. Introduction -----

Thank you for using the Canon PS Printer Driver for Linux. This PostScript printer driver provides printing functions for Canon printers operating under the CUPS (Common UNIX Printing System) environment, a printing system that operates on Linux operating systems.

#### 2. Distribution File Structure of the Canon PS Printer Driver for Linux -----

The Canon PS Printer Driver for Linux distribution files are as follows:  
Furthermore, the file name for the CUPS driver common module and printer driver module differs depending on the version.

- README-ps3-2.2xUK.txt (This document)

Describes supplementary information on the Canon PS Printer Driver for Linux.

- LICENSE-ps3drv-2.20E.txt

Describes User License Agreement on the Canon PS Printer Driver for Linux.

- guide-ps3-2.2xUK.tar.gz

Online manual that explains how to use the Canon PS Printer Driver for Linux.  
This includes the system requirements, installation, and usage of the Canon PS Printer Driver for Linux.

Because this file is in a compressed format, you need to extract it to the appropriate directory before reading.

- cndrvcups-common-2.20-X.i386.rpm (for 32-bit)

- cndrvcups-common-2.20-X.x86\_64.rpm (for 64-bit)

- cndrvcups-common\_2.20-X\_i386.deb (for Debian 32-bit)

Installation package for the CUPS driver common module used by the Canon PS Printer Driver for Linux.

- cndrvcups-ps3-uk-2.20-X.i386.rpm (for 32-bit)

- cndrvcups-ps3-uk-2.20-X.x86\_64.rpm (for 64-bit)

- cndrvcups-ps3\_uk-2.20-X\_i386.deb (for Debian 32-bit)

Installation package for the Canon PS Printer Driver for Linux.

- cndrvcups-common-2.20-X.tar.gz

Source file for the CUPS driver common module used by the Canon PS Printer Driver for Linux.

- cndrvcups-ps3-2.20-X.tar.gz

Source file for the Canon PS Printer Driver for Linux.

### 3. Hardware Requirements -----

This printer driver can be used with the following hardware environment.

Hardware: Computer that is enable to operate Linux, with x86 compatible CPU  
(32-bit or 64-bit)

Suppoeted Printer: LBP5970/5975

iR105/105+

iR2200/2200i/2800/3300/3300i

iR2220i/2220N/3320i/3320N

iR2230

iR2270/2870

iR2830

iR3025

iR3030

iR3035/3045

iR3225/3225N

iR3230/3230A/3230N

iR3235/3235A/3235N/3245/3245A/3245N

iR3530

iR3570/4570

iR5000/5000i/6000/6000i

iR5020i/6020i

iR5055/5065

iR5075

iR5570/6570

iR7086/7095/7095P/7105

iR7200

iR8070

iR8500/85

iR85+

iR9070

iR C2380i/C2550/C2550i

iR C2570/C2570i

iR 2570C/2570Ci

iR C2580i

iR C2620N

iR C2880/C2880i/C3380/C3380i

iR C3080/C3080i/C3580/C3580i

iR C3100/C3100N

iR 3100C/3100CN

iR C3170/C3170i

iR 3170C/3170Ci  
iR C3180/C3180i  
iR 3180C/3180Ci  
iR C3200/C3200N  
iR C3220  
iR C4080/C4580  
iR C5180  
iR C5185  
iR C5800/C5800N  
iR 5800C/5800CN  
iR C5870/C6870  
iR 5870C/6870C  
iR C5880/C5880i/C6880/C6880i  
iR 5880C/5880Ci/6880C/6880Ci  
iR C6800/C6800N  
iR 6800C/6800CN  
imagePRESS C1

Please see the online manual about the install method and the concrete usage.

#### 4. Cautions, Limitations, and Restrictions -----

- If you install "cndrv cups-common" package version 2.20, make sure you install the same version of the "cndrv cups-ps3" package, i.e. 2.20.
- Because the names of the install packages for Version 1.80 of this driver have been changed, it is not possible to update a Version 1.70 or earlier driver to Version 1.80.
- When specifying multiple pages/copies for [Pages per sheet] in the [General] sheet to print a document created with StarSuite7/OpenOffice, due to a cause of operation by the CUPS module, settings are not correctly assigned to the multiple pages and output.
- PostScript files created with the number of copies specified in OpenOffice.org or StarSuite are affected not by the value specified by [Number of copies] in the [cngplp] dialog box (the driver UI), but by the number of copies set when creating the PostScript file.

- If settings are changed from the driver UI, during print processing, the printed result will reflect the changed settings.
- If [Brightness and Gamma] is specified in the [General] sheet from an application such as OpenOffice.org, GIMP, or Acrobat Reader v.5.0, the settings will be invalid.
- If you print with [Brightness] in the [General] sheet set to 190 or higher when using a color printer, the document will be output with the second page onward printed completely black. This is caused by the PS interpreter.
- You cannot print a PDF document by directly specifying it from the desktop or command line. When printing a PDF document, it is recommended that you print it from Acrobat Reader or Adobe Reader.
- The maximum number of files that can be held in the print queue when printing is 500 according to CUPS specifications. Files queued after the 500th file will be ignored.
- If you are using SUSE LINUX Professional 9.3, the driver UI may display unintelligible characters. You can solve this problem using the following method.
  - 1) Log in as 'root'.
  - 2) Execute the following command to change the GTK+ environment settings.

```
# cd /etc/  
# ln -s opt/gnome/gtk ./
```
- If you are using SUSE LINUX Professional 9.3, a warning may occur when you activate the driver UI. You can solve this problem using the following method.
  - 1) Open [K Menu] -> [Control Center].
  - 2) Select [Appearance & Themes].
  - 3) Select [Colors].
  - 4) Deselect [Apply colors to non-KDE applications].
  - 5) Close [Control Center].
- When printing from OpenOffice.org, some finishing functions such as [Rotate] may not operate correctly if you specify multiple copies for [Number of

copies] in the driver UI.

- If you are using StarSuite 7, StarSuite 8, OpenOffice 1.1.2, or OpenOffice 2.0, have specified one copy to print in the print dialog box of the application, have then output this print data as a file, and specify multiple copies when printing this file using the printer driver UI, the multiple copies setting will not be effective.
- If grays are difficult to discern in the printed output, you can improve the print results by changing the gradation settings on the control panel of the printer.
- If you are using SUSE Linux 9.3 or SUSE Linux 10.0, and are printing from the [Print] dialog box of Mozilla or FireFox, because the multiple copies setting is not enabled, you can print only one copy regardless of how many copies you have specified. This problem can be solved by changing the following line in the file `"/etc/cups/mime.convs"`.  
[Before change]  
`application/mozilla-ps application/postscript 33 pswrite`  
[After change]  
`application/mozilla-ps application/postscript 33 pstops`
- When performing banner printing in Fedora 8 or Fedora 9, if you specify a setting other than [none] for [End] under [Banner] in the [General] sheet, the print queue will stop.
- If you are using OpenSUSE 10.2 or SLED10SP1, which includes Ghostscript version 8.15.3, you may not be able to print some documents. To solve this problem, install another version of Ghostscript.
- If you are using Adobe Reader 7.0.x, and modify such settings as Paper Size, Paper Source, Duplex Printing, etc. in the print dialog window, these options are automatically added to the printer command. However, these settings will not work because they cannot be recognized as command options. To solve this problem, use `"-o"` to separate each command options.  
[before] `-o InputSlot=Manual,Duplex=DuplexNoTumble`  
[after] `-o InputSlot=Manual -o Duplex=DuplexNoTumble`
- When performing 2-sided printing with Adobe Reader 8.1.2, if you specify

[ON (Short-edged Binding)] for [Duplex Printing] in the print properties for Adobe Reader 8.1.2, the document will be printed on both sides with long-edged binding.

This problem can be avoided by printing the document using the printer driver UI.

- When printing text files in landscape orientation in Vine Linux 4.1, Vine Linux 4.2, Fedora 8, Fedora 9, or RedHat Enterprise Linux v.5, there may be instances where the text file is printed in portrait orientation with some of the print data not being printed on the page.

This is caused by the CUPS filter employed by the distribution you are using creating a PS command that is already set to portrait. This problem can be avoided by changing the CUPS filter name specified in the "text/plain" entry line in the CUPS setting file "mime.convs" to the CUPS standard filter "texttops". This will result in Japanese characters being misprinted, therefore when printing Japanese characters, a PS command must first be created using a text editor or text-Postscript conversion program such as paps.

Also, some of the functions provided in the CUPS standard filter "texttops" may not operate correctly.

- If you specify Paper Source settings in the print dialog of an application such as Writer of OpenOffice.org, the settings made from the application are overridden by the printer driver UI settings. To print from the desired Paper Source, specify the Paper Source from the printer driver UI beforehand, or print from the command line.

- If you are using Debian GNU/Linux 4.0, a PPD file error may occur when you register the printer (PPD) with the print spooler. To solve this problem, use "-P (full path to the ppd)" instead of "-m" when you specify the ppd using the command line.

Example: /usr/sbin/lpadmin -p iRC5180

-P /usr/share/cups/model/CNCUPSIRC5180SK.ppd

-v lpd://192.168.1.10/iRC5180 -E

- Depending on the distribution you are using, when you register the USB printer with the print spooler specifying /dev/usb/lp\* as [Device URI], printing may fail with an error "Printer not Connected" displayed. To solve this problem, specify the printer specific name as [Device URI] that is displayed by using the following command.

Example: When you use iR C5185

1) Display the [Device URI]

```
# /usr/sbin/lpinfo -v
direct usb://Canon/iR%20C5185%20(PS)
direct usb://Canon/iR%20C5185%20(UFR11%20LT)
```

2) Register the printer

```
#lpadmin -p IRC5185_USB -m CNCUPSIRC5185SK.ppd
-v usb://Canon/iR%20C5185%20(PS) -E
```

- If you are using Debian GNU/Linux 4.0, you may take time to print from Evince or may not be able to print some documents. To solve this problem, print the document from other application.
- If you are using Mandriva One 2008 Spring with CUPS version 1.3.6, unintended print results may occur even when printing with standard CUPS print functions. This problem can be solved by updating CUPS.
- If your version of Ghostscript is 8.6.x, you may not be able to print some documents.
- If you are using the 64 bit version of Fedora 10, 11, 12, or 13, you need the 32 bit version of glibc library to install the common module.  
You can install by executing the following commands:
  - For Fedora 10: # yum install glibc.i386
  - For Fedora 11: # yum install glibc.i586
  - For Fedora 12 and 13: # yum install glibc.i686Also, you need the 32 bit version of xml2 library for printer drivers from version 1.90 onward.  
You can print by entering the following comands:
  - For Fedora 10: # yum install libxml2.i386
  - For Fedora 11: # yum install libxml2.i586
  - For Fedora 12 and 13: # yum install libxml2.i686
- If you are using Ubuntu 7.04/7.10/8.04/8.10/9.04 or Debian 3.1/4.0/5.0, the libcupsys2 library is required to install the common module.  
You can install the libcupsys2 library by executing the following command.  
# apt-get install libcupsys2
- Although Okular is the standard document viewer in the OpenSUSE 11.1 KDE environment, the printer driver functions do not operate correctly with it.

You can solve this problem by using another application such as Acrobat Reader etc.

- If you are using Ubuntu 8.10, Ubuntu 9.04, Ubuntu 9.10, or Ubuntu 10.04, the printer will print with the default paper output method, regardless of whether you have specified the paper output method.  
This problem can be solved by changing the output paper method setting from the CUPS printer settings (Web).
- If you are using Ubuntu 8.10, specifying reverse order for printing does not affect the print result.  
This problem can be solved by updating CUPS.
- If you are using Ubuntu 8.10, Ubuntu 9.04, Ubuntu 9.10, or Ubuntu 10.04, when printing PDF data or PS data, brightness and gamma correction settings do not affect the print result.
- If you are using Fedora 11 and print with the print queue stopped after canceling a job, the job is suspended. In this case, click the [Maintenance] button in Printers in the CUPSWeb interface and select [Resume Printer] to perform the [pending since] job again.  
If you cannot find the [Maintenance] button, you can select [Resume Printer] by selecting [Pause Printer].
- If you are using Debian GNU/Linux 5.0.2, the gs-esp module is required to install the common module.  
You can install the gs-esp module by executing the following command.  

```
# apt-get install gs-esp
```
- If you are using GentOS 5.3, you cannot print the number of copies as you specified in Evince.  
You can solve this problem by printing from other PDF viewers such as Adobe Reader or using the following methods.
  - 1) Set the number of copies to 1 and select a PS command for the output destination in Evince to output a file.
  - 2) Print the PS command output as a file after specifying the number of copies in cngplp.
- If you are using Ubuntu 9.04, Ubuntu 9.10, Ubuntu 10.04, Fedora 11, Fedora 12,

or Fedora 13, and print banner pages, the specified number of banner pages are printed.

- If you are using Ubuntu 9.04 and update the CUPS version to "1.3.9-17ubuntu3.2", printing will fail due to improper PS data.

You can avoid this problem by downgrading the CUPS version to "1.3.9-17ubuntu3.1".

<Downgrading with the apt-get command>

- Execute the following command.

```
# apt-get install cups=1.3.9-17ubuntu3.1
```

<Downloading the CUPS1.3.9-17ubuntu3.1 package and downgrading with the dpkg command>

- Download the package (cups\_1.3.9-17ubuntu3.1\_i386.deb) from the Ubuntu website (<http://packages.ubuntu.com/en/jaunty/i386/cups/download>) using a Web browser etc., and then execute the following command.

```
# dpkg -i cups_1.3.9-17ubuntu3.1_i386.deb
```

- If you are using Ubuntu 9.10 and specify one-sided printing when printing a text file from the driver UI or command line, the printed result may be printed on both sides and some text may be missing.

You can use the following methods to solve this problem:

[Method 1]

Print from a text editor such as GEdit.

[Method 2]

Update CUPS using the following command:

```
#apt-get install cups
```

- If you are using Ubuntu 9.10 or 10.04 and specify A4 as the page size when printing a JPEG file from the driver UI or command line, four-sided postcard is called at the printer end.

You can use the following methods to solve this problem:

[Method 1]

Output the file as a PS file from an application such as GIMP, then print it from the driver UI or command line.

[Method 2]

Print the file from an application such as GIMP.

- If you are using Fedora 12 or Ubuntu 9.10, when you change the default options from the CUPS Web interface, the default values will be saved even if there is a conflict between the settings for each function. Also, once the settings are

saved with a conflict, you cannot save the settings again even if you use the Web interface to change them to the correct values where there is no conflict. If you display the [cngplp] dialog box in this situation, an invalid operation may occur.

You can use the following methods to solve this problem:

[Method 1] Fedora 12 (32-bit/64-bit) and Ubuntu 9.10

Re-register the printer that performed the invalid operation.

[Method 2] Fedora 12 (32-bit/64-bit)

Execute the following command to update CUPS:

<For Fedora 12 (32-bit)> # yum update cups.i686

<For Fedora 12 (64-bit)> # yum update cups.x86\_64

- If you are using the 32 bit or 64 bit version of Fedora 13, and print a TIFF or JPEG file from the driver UI or command line, the printed image may be broken up. This problem can be solved by outputting the file as a PostScript file from an application such as GIMP, then printing from the command line by typing the PostScript command used to output the file after [cngplp].
- If you are using Fedora 13, even if you specify the brightness and gamma settings from the driver UI or the command line, these settings are not applied to the printed result from the second page onward.  
This is due to these functions not being enabled because Ghostscript does not correctly recognize the PostScript data created by the application.
- If you change the output method to [Print] after specifying [Secured Print] as the output method and clicking [Save/Print Settings] in the driver UI, the name of the document you output using [Secured Print] is displayed in the job log of the printer. This problem can be solved by using the [Save/Print Settings] button instead of the [Print] button to print when changing the output method from [Secured Print] to [Print].
- After setting an entry or text view value, if you finish by clicking the [X] button at the top right of the dialog box, the value is treated as a valid value in the same way as when you click the [OK] button. If you want to disable the set value, click the [Cancel] button.
- The following characters are treated differently in different CUPS versions, therefore we recommend that you do not use them.

"#"

From CUPS version 1.4 onward, “#” is treated as a comment, therefore if you use it in a command line, the characters following “#” are not recognized as commands.  
“¥”

If you enter “¥¥123”, the command is recognized in the following way, depending on the version of CUPS:

CUPS V1.1.22: ¥123

CUPS V1.4.3: ¥¥123

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## Support

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