



# **How to add media size**

**Version: 1.00**

# Content

1. OVERVIEW.....	3
2. ADDMEDIASIZE 工具說明 .....	3
3. ADDMEDIASIZE 操作步驟 .....	3

# 1. Overview

在 CUPS Driver 中，由於機制本身上的限制，所以想要新增 Media Size，並不是件簡單的事，不像在 Windows 中的 driver，可以用 UI 介面就可以動態增加 media size。

這是先天的問題，只有知道這個問題，才能解決問題。

在此之前，先科補一下所需知識，在 ppd 檔中，使用到的單位換算為: **1 inch = 72 point**

目前在 CUPS 中，想新增 media size 有以下的方法：

- I. 自己打開 ppd 檔，參考 ppd 檔內容後，自行新增/修改。友善提示，增加一個 media size，需要修改四處。
- II. 使用工具 addmediasize，此工具可以幫助使用者很簡單的新增一個 media size 至 ppd 檔中。

## 2. addmediasize 工具說明

Usage: addmediasize [OPTION]

Add media size to ppd file.

Options:

- w, --width=n Set the width of the media, the media size the user wants to add to the ppd file.(unit:0.01inch)
- h, --height=n Set the height of the media, the media size the user wants to add to the ppd file.(unit:0.01inch)
- f, --filepath=n Set the ppd filename, the media size will add to it.

If this parameter is not used, the media size will add to all ppd files in the installation directory.

-?, --help help.

example:

```
addmediasize -w250 -h250
addmediasize -w 250 -h 250
addmediasize --width=250 --height=250
addmediasize -w250 -h250 -f /usr/share/cups/model/argox/argox_P4-250_pplb.ppd
addmediasize --width=250 --height=250
--filepath=/usr/share/cups/model/argox/argox_P4-250_pplb.ppd
```

## 3. addmediasize 操作步驟

1. 打開終端機視窗，並進入有工具 addmediasize 的目錄，如[Figure 3.I].

```
argox@ubuntu: ~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)
argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$ ls
addmediasize                                rasteroargox
ARGOX_Linux_Printer_Driver_install_uninstall_Instruction.pdf  readme.txt
install                                         uninstall
pdp
argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$
```

[Figure 3.1]

2.若已有安裝 CUPS D Drive, 則可以跳過此步驟. 在 command line 下, 輸入下面的指令, 如[Figure 3.2].

```
sudo ./install
```

```
argox@ubuntu: ~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)
argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$ ls
addmediasize                                rasteroargox
ARGOX_Linux_Printer_Driver_install_uninstall_Instruction.pdf  readme.txt
install                                         uninstall
pdp
argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$ sudo
./install
[sudo] password for argox:

Start ARGOX printer driver installation...

There is no installed ARGOX printer driver.
Start to copy driver files...
Restart spooler - CUPS.
[ ok ] Restarting cups (via systemctl): cups.service.

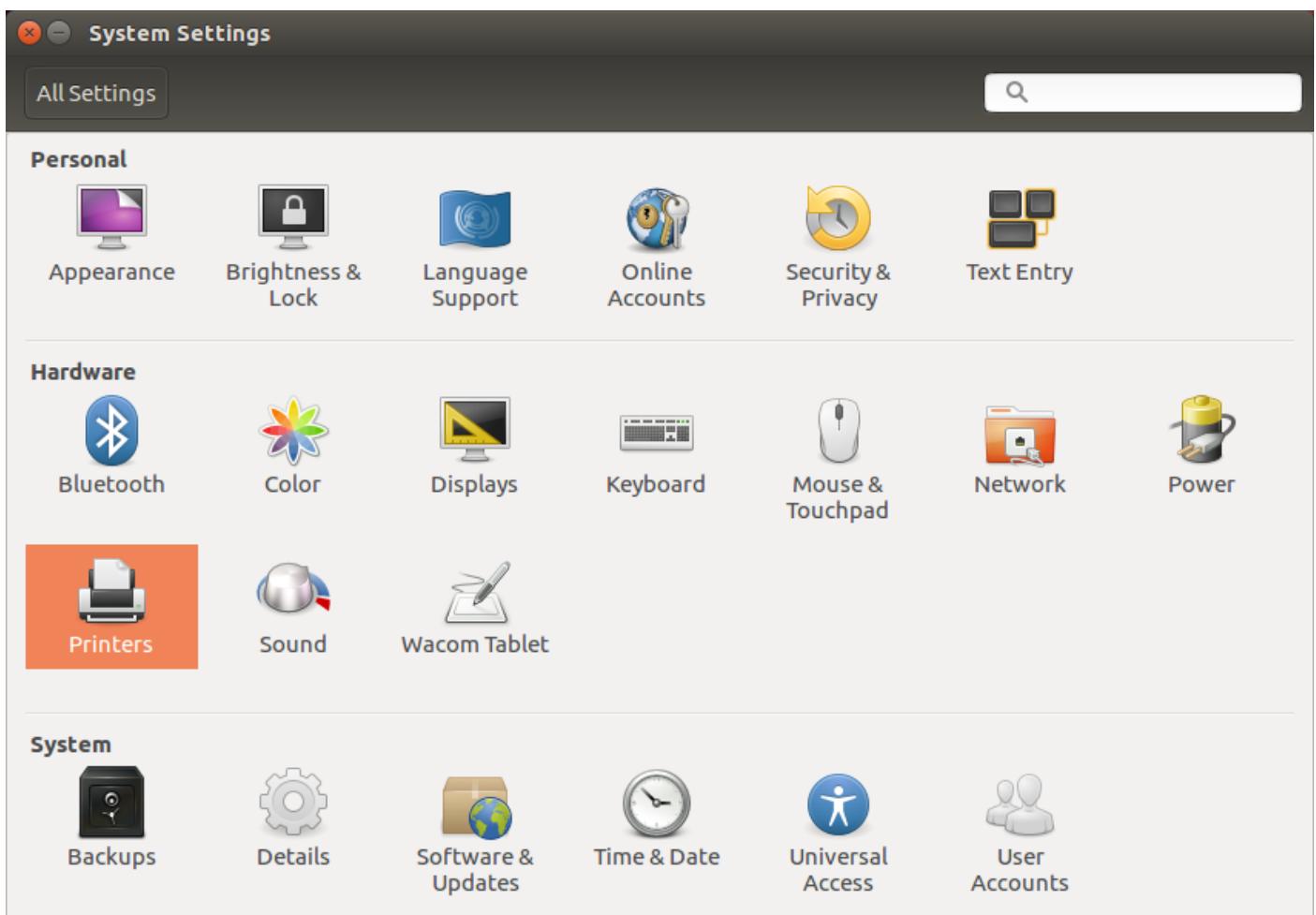
The printer driver is installed completed.
Please select suitable printer driver when installing printer manually.

argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$
```

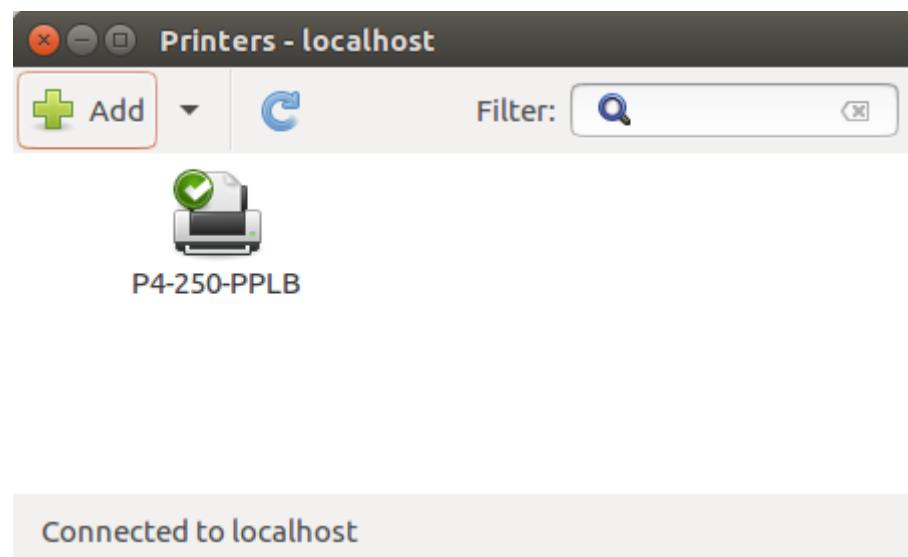
[Figure 3.2]

3.若無需確認原本的 media size, 則可以跳過此步驟. 進入 "System Settings -> Printers" 去新增印

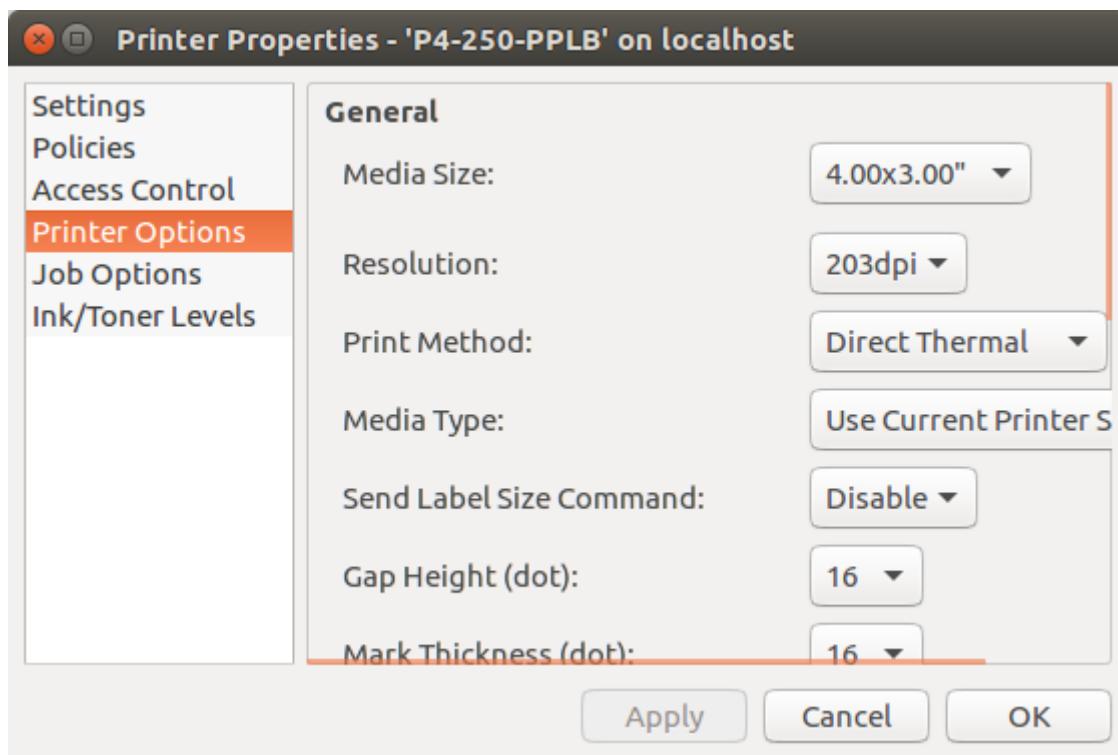
表機，或是利用 USB Plug and Play 自動安裝，如[Figure 3.3]- [Figure 3.6]，確認原本的 media size 的項目。在此不多加說明，若有需要，可參考 “ARGOX\_Linux\_Printer\_Driver\_install\_uninstall\_Instruction.pdf”。



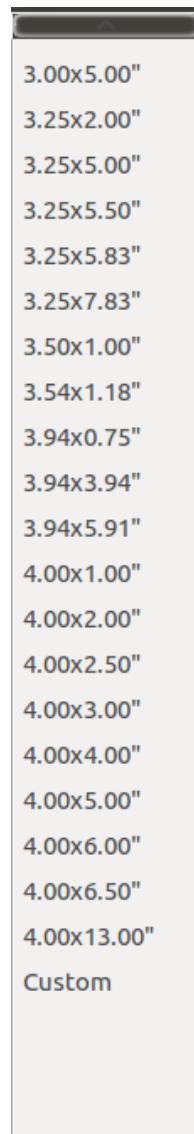
[Figure 3.3]



[Figure 3.4]



[Figure 3.5]



[Figure 3.6]

3.接著使用工具 addmediasize, 假設要新增的大小為 2.5X2.5 吋. 在 command line 下, 輸入下面的指令, 如[Figure 3.7].

```
sudo ./addmediasize -w250 -h250
```

PS:如果工具有權限問題, 請先執行 sudo chmod 755 ./addmediasize 去修改權限.

```
argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$ ls
addmediasize                                raster2argo
ARGOX_Linux_Printer_Driver_install_uninstall_Instruction.pdf  readme.txt
install                                         uninstall
ppd
argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$ sudo
./install
[sudo] password for argox:

Start ARGOX printer driver installation...

There is no installed ARGOX printer driver.
Start to copy driver files...
Restart spooler - CUPS.
[ ok ] Restarting cups (via systemctl): cups.service.

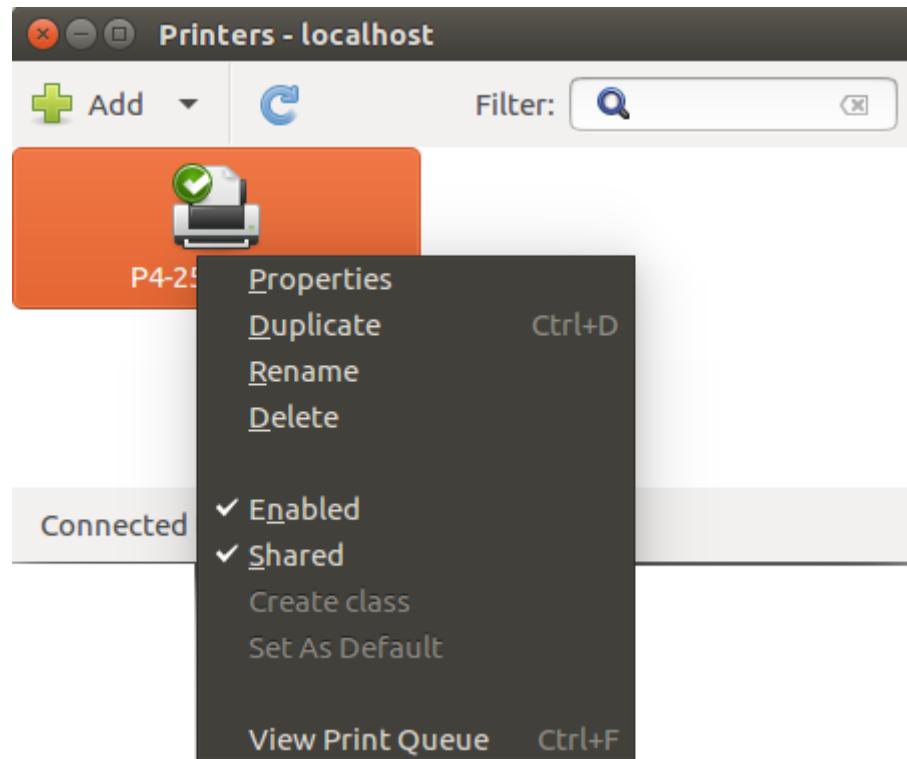
The printer driver is installed completed.
Please select suitable printer driver when installing printer manually.

argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$ sudo
./addmediasize -w250 -h250
PPD Folder: /usr/share/cups/model/argox/
Append media size total 314 files
argox@ubuntu:~/ARGOX-CUPS/Driver/ARGOX_Linux_Printer_Driver-V1.9.0(64-bit)$ █
```

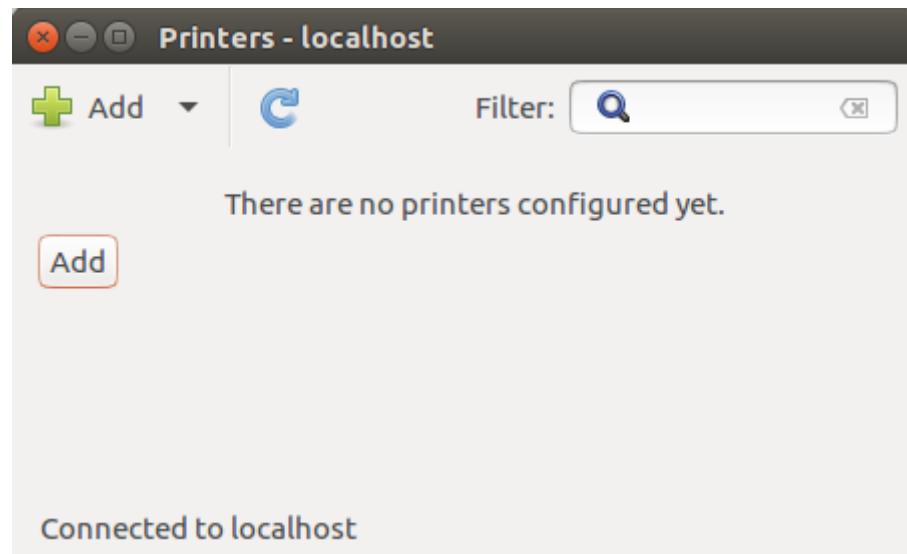
[Figure 3.7]

若成功, 會顯示修改了多少檔案; 反之, 則會顯示錯誤訊息.

4.若之前沒有安裝印表機, 則可以跳過此步驟. 進入 "System Settings -> Printers", 將印表機刪除, 如[Figure 3.8]- [Figure 3.9]. 在此不多加說明, 若有需要, 可參考 "ARGOX\_Linux\_Printer\_Driver\_install\_uninstall\_Instruction.pdf".

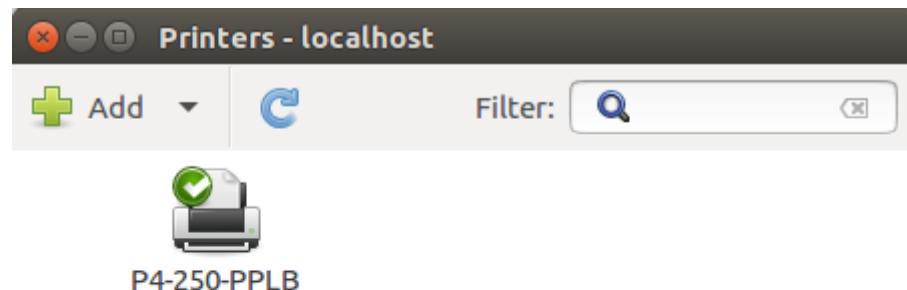


[Figure 3.8]



[Figure 3.9]

5.新增印表機. 進入 "System Settings -> Printers" 去新增印表機，或是利用 USB Plug and Play 自動安裝，在此不多加說明，如[Figure 3.10]- [Figure 3.12]，確認 2.5X2.5 吋大小有沒有加至 media size 中。若有需要，可參考 "ARGOX\_Linux\_Printer\_Driver\_install\_uninstall\_Instruction.pdf"。



Connected to localhost

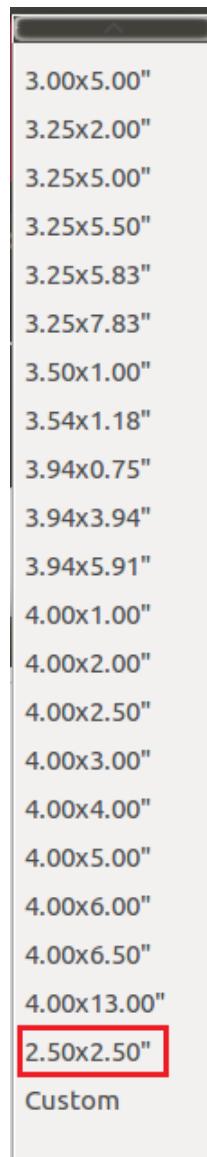
[Figure 3.10]

A screenshot of the "Printer Properties" dialog for the printer "P4-250-PPLB" on "localhost". The window has a title bar "Printer Properties - 'P4-250-PPLB' on localhost". On the left is a vertical menu with options: Settings, Policies, Access Control, **Printer Options**, Job Options, and Ink/Toner Levels. The "Printer Options" option is currently selected. The main panel is titled "General" and contains the following settings:

- Media Size: 4.00x3.00"
- Resolution: 203dpi
- Print Method: Direct Thermal
- Media Type: Use Current Printer S
- Send Label Size Command: Disable
- Gap Height (dot): 16
- Mark Thickness (dot): 16

At the bottom are three buttons: "Apply", "Cancel", and "OK".

[Figure 3.11]



[Figure 3.12]