Software Manual

for Mac OS X

Supported Models

- ❑ TSP100 Series
- ❑ TSP650 Series
- ❑ TSP650II Series
- ❑ TSP700II Series
- ❑ TSP800II Series
- ❑ TSP1000 Series

Rev. 6.0

Notice:

- Mac, MacOS, MacBook, iMac are trademarks of Apple Inc., registered in the U.S. and other countries.
- The information in this manual is subject to change without notice.
- STAR MICRONICS CO., LTD. has taken every measure to provide accurate information, but assumes no liability for errors or omissions.
- STAR MICRONICS CO., LTD. is not liable for any damages resulting from the use of information contained in this manual.
- Reproduction in whole or in part is prohibited.

© 2009-2015 Star Micronics Co., Ltd.

Table of Contents

1. Installation/Uninstallation Procedures 2
   1.1 Installing Star Printer Drivers 2
   1.2 Registering the Printer 6
   1.3 Uninstalling Star Printer Drivers 15
2. Setting Printer Functions 18
   2.1 Function List 19
3. Setting the Paper Size 24
   3.1 Setting the Paper Size 24
   3.2 Settable Paper Sizes 25
4. Guidelines for Using an Ethernet Environment 26
   4.1 Setting a Temporary IP Address 26
   4.2 Setting the IP Address << StarPrinter TELNET Utility >> 28
5. Guidelines for Using the lpr Command 31
   5.1 Function List 32
6. Confirmed Operating Environments 34
7. Revision History 35

Introduction

This manual describes the setup procedures and the functional outline of the Star CUPS driver which use TSP100 series, TSP650 seriese, TSP650II series, TSP700II series, TSP800II series and TSP1000 series.

The printer's IP address must be set in advance to use a printer that supports LAN using this driver. If your LAN environment does not allow acquisition of an IP address from a DHCP server, set the IP address to the printer in advance. See 4. Guidelines for Using an Ethernet Environment for details on how to set the IP address for the printer.

Limitation for TSP100LAN:
Cannot print files with the names are over 80 characters.

Operating Environment

Operating System

- **Mac OS X 10.5** *1
- **Mac OS X 10.6**
- **Mac OS X 10.7**
- **Mac OS X 10.8**
- **Mac OS X 10.9** *2
- **Mac OS X 10.10** *2

* **Limitations for Bluetooth models**
Bluetooth printers are only supported with Mac OS X 10.7 or later.
The maximum page length printable by Bluetooth printers is 1500 mm.

*1 **Limitation for Mac OS X 10.5 (USB models)**
The first print job after installing the CUPS Driver will tame 10 to 20 seconds to print in the MAC OS X 10.5 environment. This occurs only one time. (Just the first time)

*2 **Limitations for Mac OS X 10.9 or later (USB models)**
If a USB printer is used with Mac OS X10.9.4 or later, the printer queue is sometimes displayed as Off-line even though the printer can print when powering off the printer or restarting the PC.
It can be prevented by allocating a USB serial number.
Please use the "USB serial number allocation script" enclosed in the package to allocate a USB serial number to the printer. Please see the manual attached to the "USB serial number allocation script" for details.

1. Installation/Uninstallation Procedures

> ***Cautions :*** **The account with administrative privilege for the PC should install/uninstall this driver.**

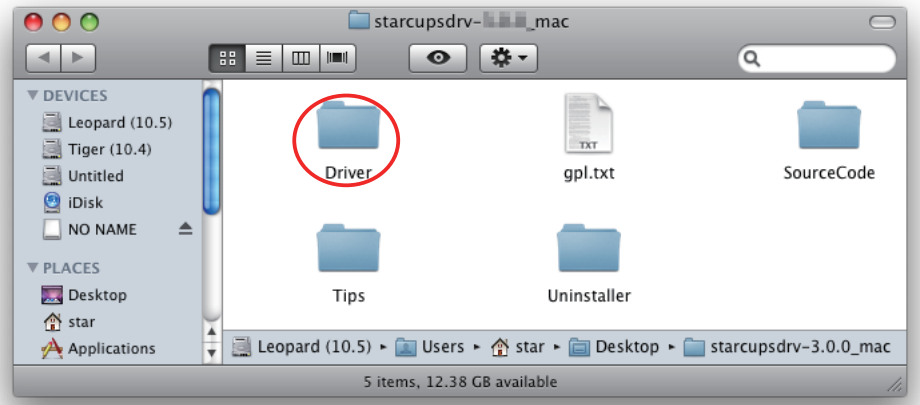
1.1 Installing Star Printer Drivers

To install the driver, proceed as follows.

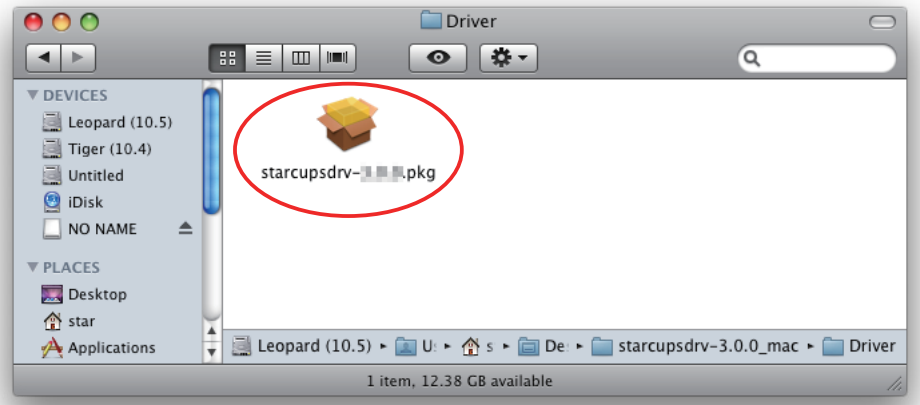
> **Important :** When using a USB interface, turn on the printer's power after performing "1.1 Installing Star Printer Drivers".

1. Place the "starcupsdrv-x.xx.x_mac_yyyymmdd.zip" file on your desktop and expand it by double-clicking on the file.

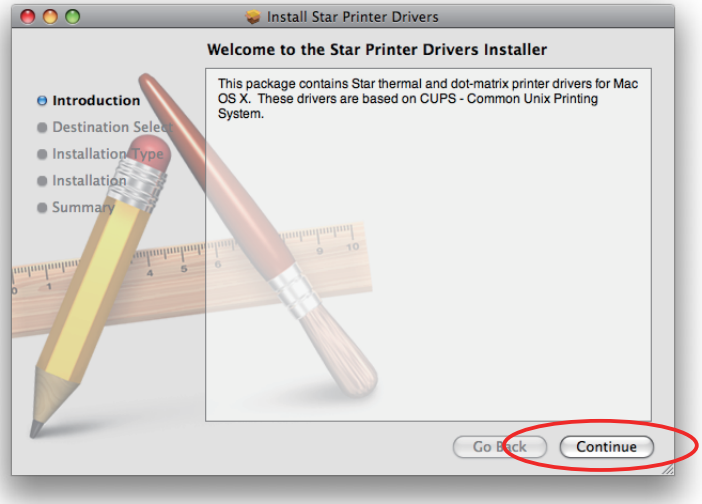
2. The screen below appears by double-clicking the expanded <starcupsdrv-x.xx.x_mac> file. Click on the "Driver" folder to open it.



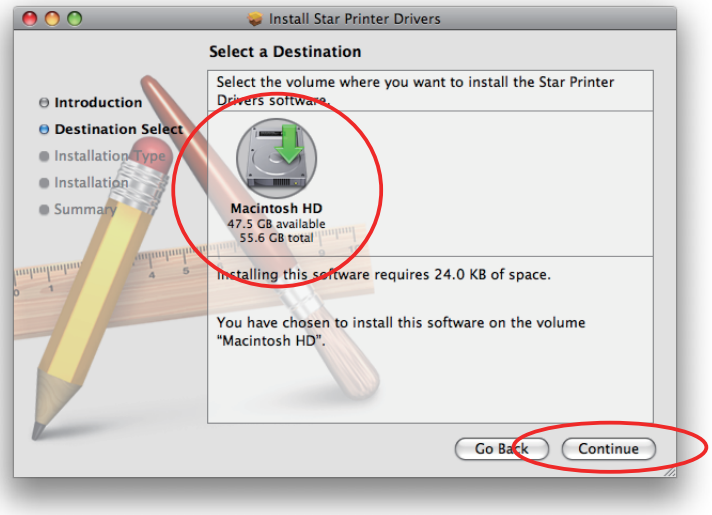
3. The screen below is displayed.
   Double-click <starcupsdrv-x.xx.x.pkg> to begin the installation.



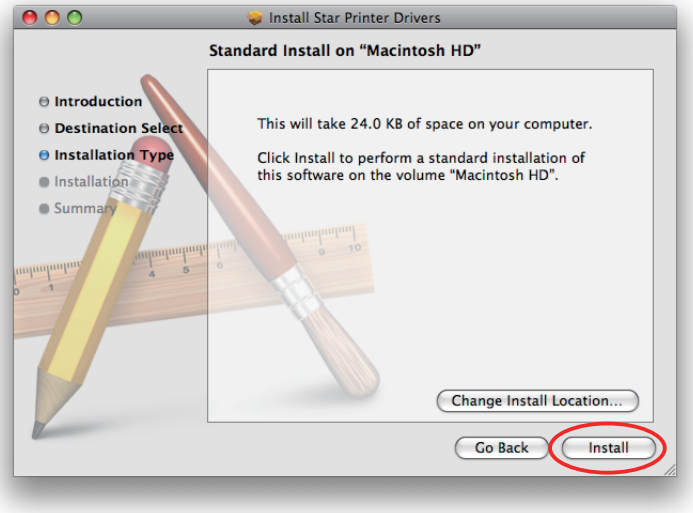
4. The following window is displayed.
   Click [Continue].



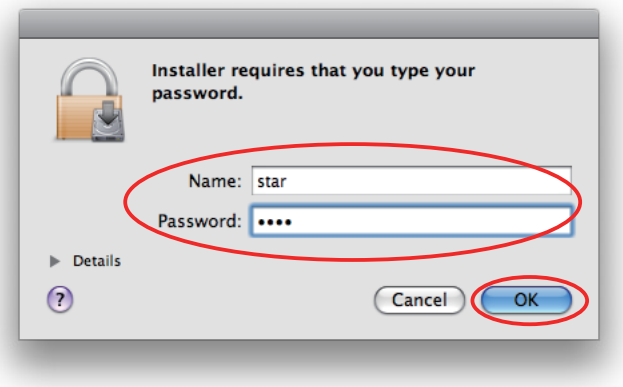
5. Select the harddisk to install with the program, then click [Continue].



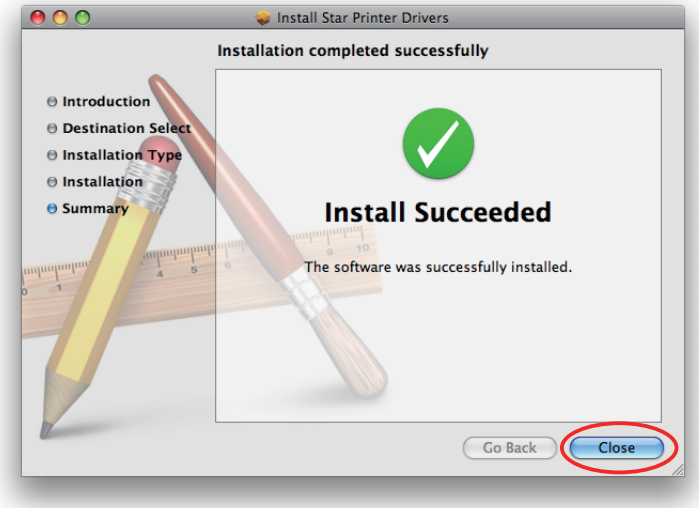
6. Click [Install] to start the installation.



7. If the confirmation window shown below is displayed, enter the user name and password having administrator rights, then click [OK].



8. The installation ends successfully.
   When the installation has ended successfully, the window shown below is displayed. Click [Close].



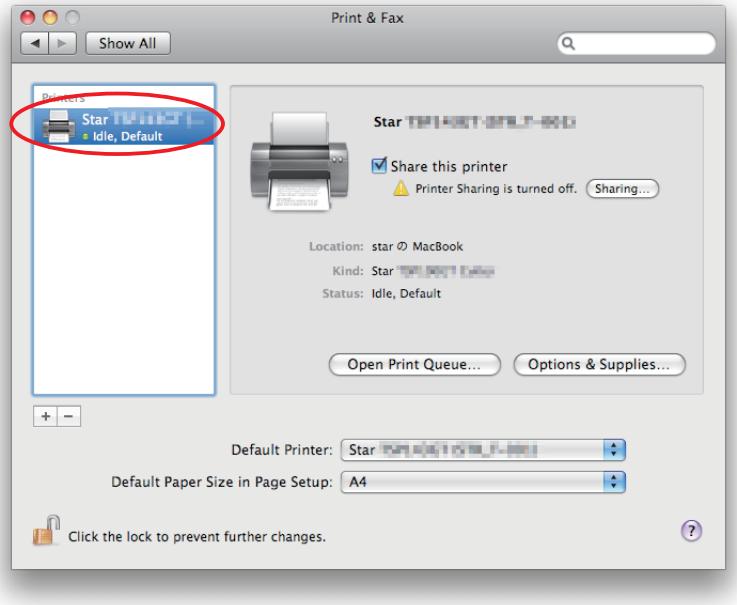
1.2 Registering the Printer

Procedures for registering the printer differ according to the type of interface you use. See the page relating to your environment.

1.2.1 When using a USB Interface

1. In the Apple mark in the menu bar, open [System Preferences] and click on the [Print & Fax] icon.

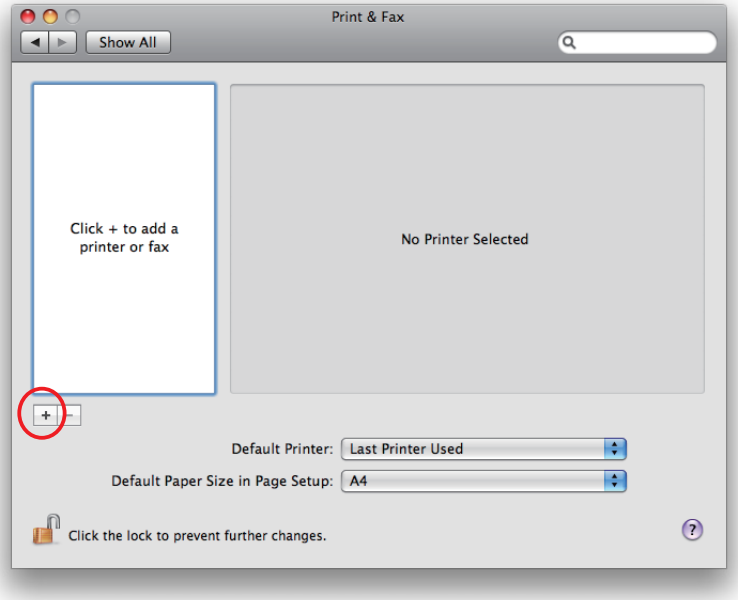
2. Connect the printer, and then turn on the printer's power switch.
   The Plug and Play feature detects the connection of the printer hardware and automatically installs the driver software.
3. If the name of the specified printer is added to the printer list, the printer has been added.



1.2.2 When using Ethernet Interface

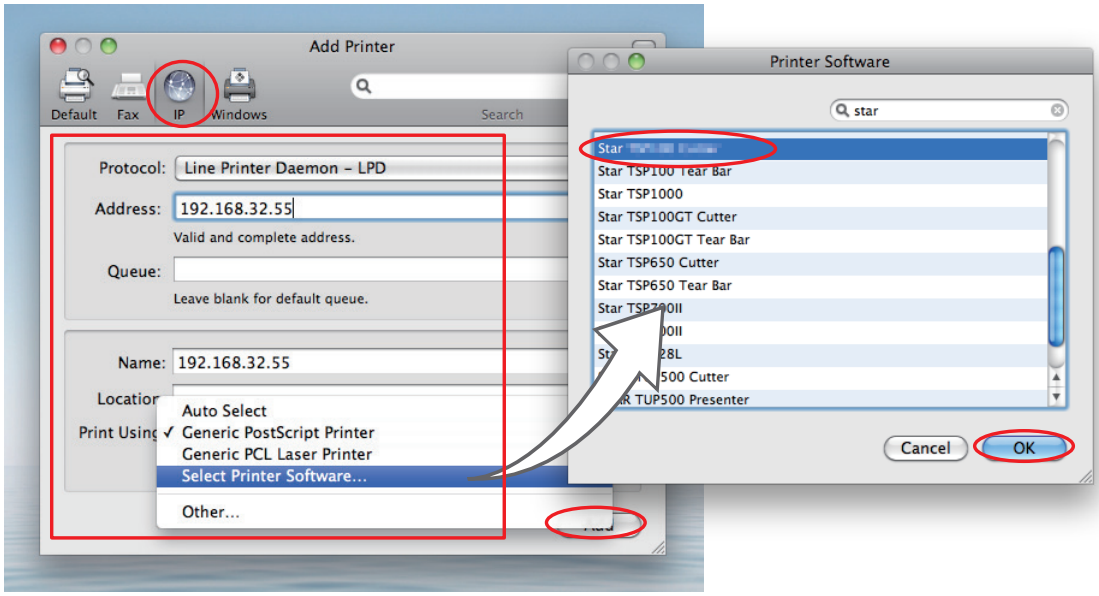
1. In the Apple mark in the menu bar, open [System Preferences] and click on the [Print & Fax] icon.

2. The Print & Fax window appears.
   Click on [+].



3. From the "IP", make the following settings and click on [Add].

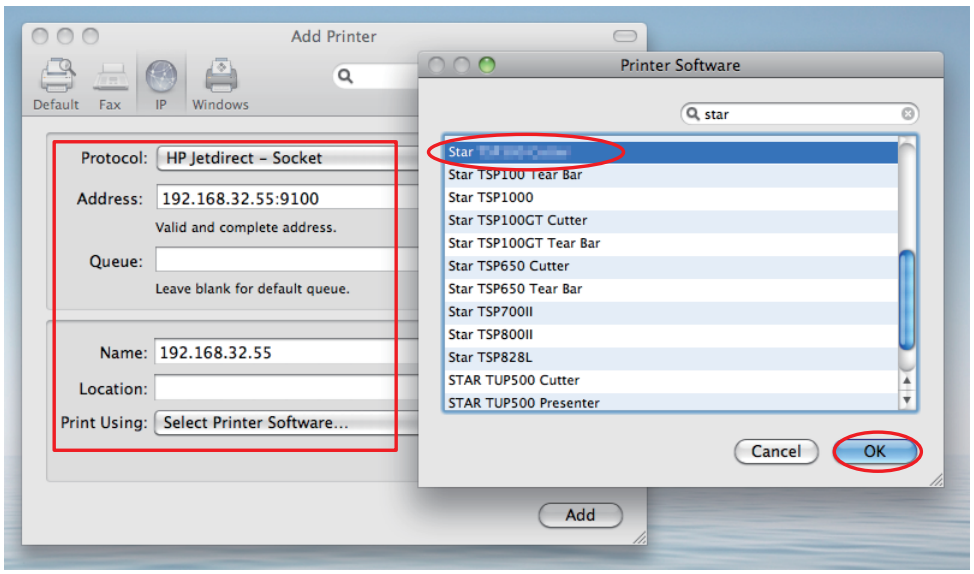
Protocol:	Line Printer Daemon - LPD
Address:	IP address of printer being set (Check in self-print)
Queue:	Any character string (Printer cannot be used if left blank.)
Name:	Any character string (The IP address is automatically input by default.)
Print Using:	"Select the driver to use..." or "Select printer software..."
	Select the driver to use.



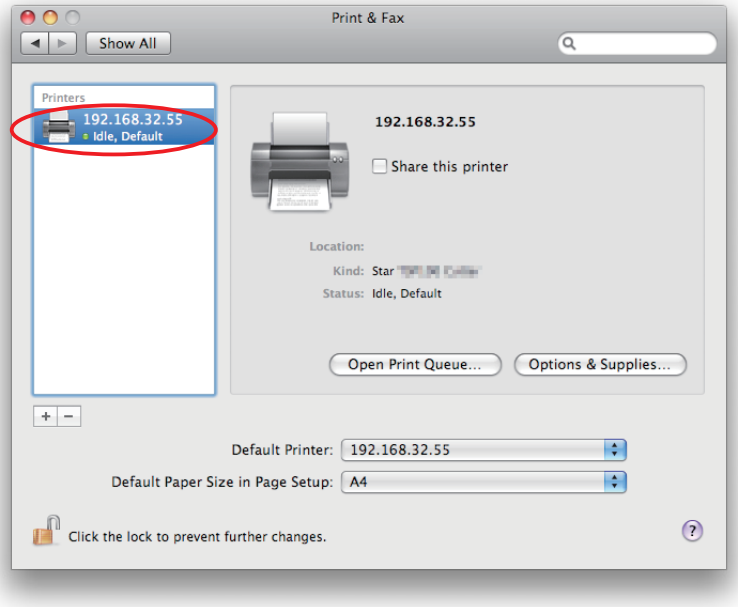
If you want to use TSP654II, please select the following driver.
Star TSP650 Cutter (TSP654)

Point! When using port 9100, set the following.

Protocol:	HP Jet Direct - Socket
Address:	[IP address of printer being set] : 9100
Print Using:	"Select the driver to use..." or "Select printer software..."
	Select the driver to use.



4. If the name of the specified printer is added to the printer list, the printer has been added.



1.2.3 With the Bluetooth Interface

1. To pair them with the bluetooth printer, proceed as follows.

   1) Turn the printer power ON.

   2) Hold down the PAIR button of the bluetooth card for more than 10 seconds to set the pairing mode of the printer.

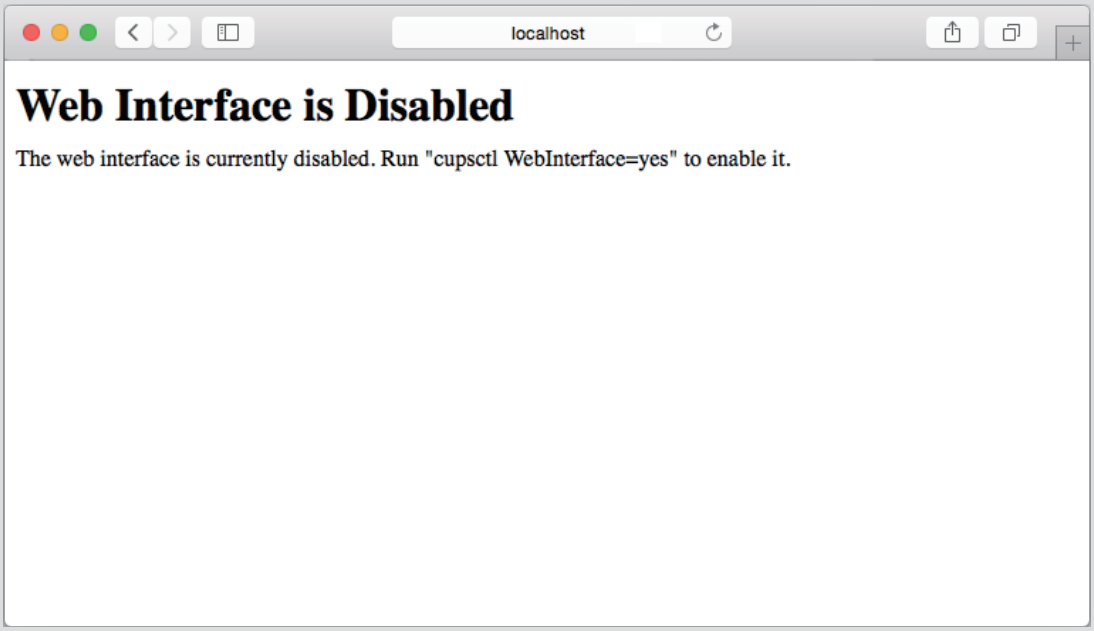
   3) Click Bluetooth icon , and select "Set up new device". When click "Forward", the system find the printer.

   4) Select the printer which is displayed in the Serch panel, and click "Continue". The system start the pairing.

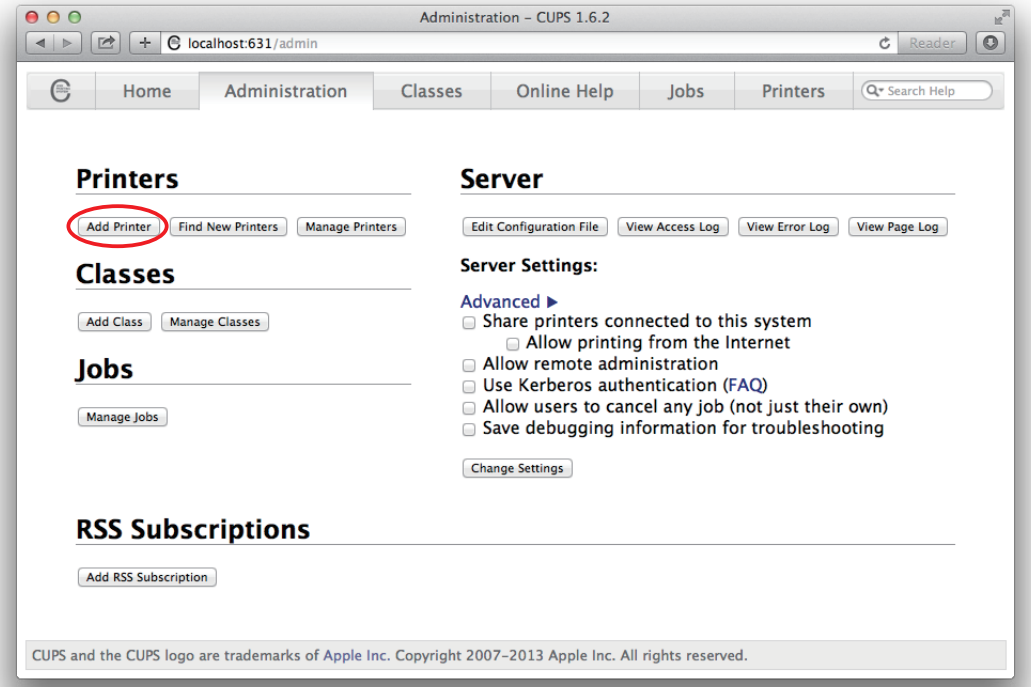
   If the pairing is unsuccessful, please try again.

2. Open your favorite web browser and navigate to "http://localhost:631/admin".

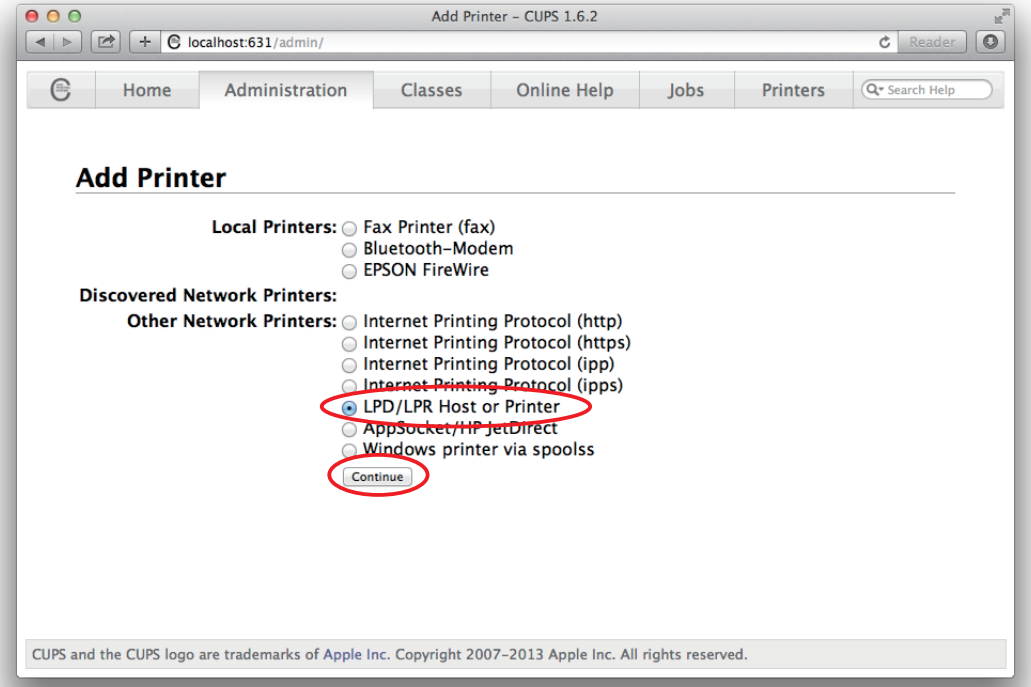
Point! When accessing the CUP management screen for the first time, you will get the following message. Please execute the command described in the message from [Utility]-[Terminal].



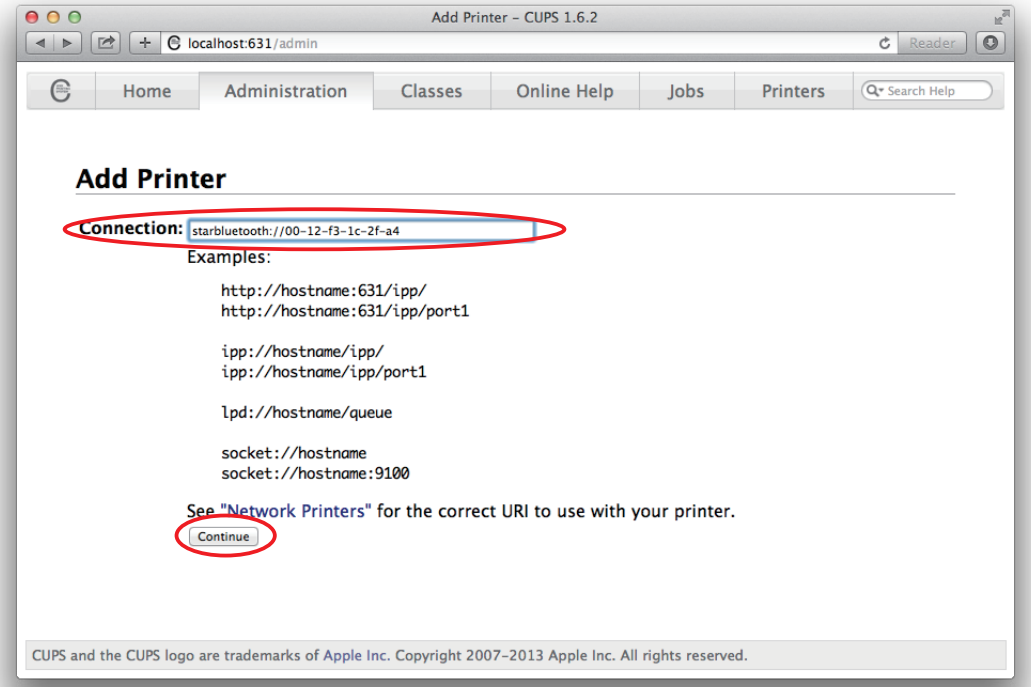
3. Click "Add Printer".
   Note: When a dialog box is displayed requesting certification, enter the root password and press [Yes].



4. Select the "LPD/LPR Host or Printer". Then click "Continue".

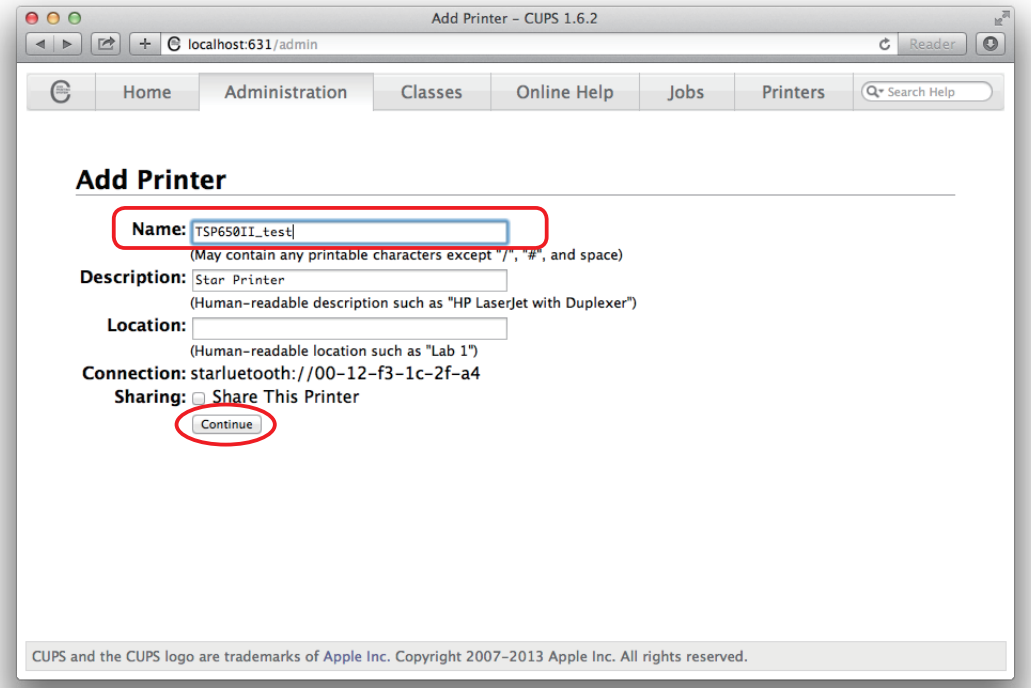


5. Specify the device URI for the printer as shown below and click "Continue".
   starbluetooth://<<Bluetooth Address>>
   ex. **starbluetooth://00-12-f3-1c-2f-a4**

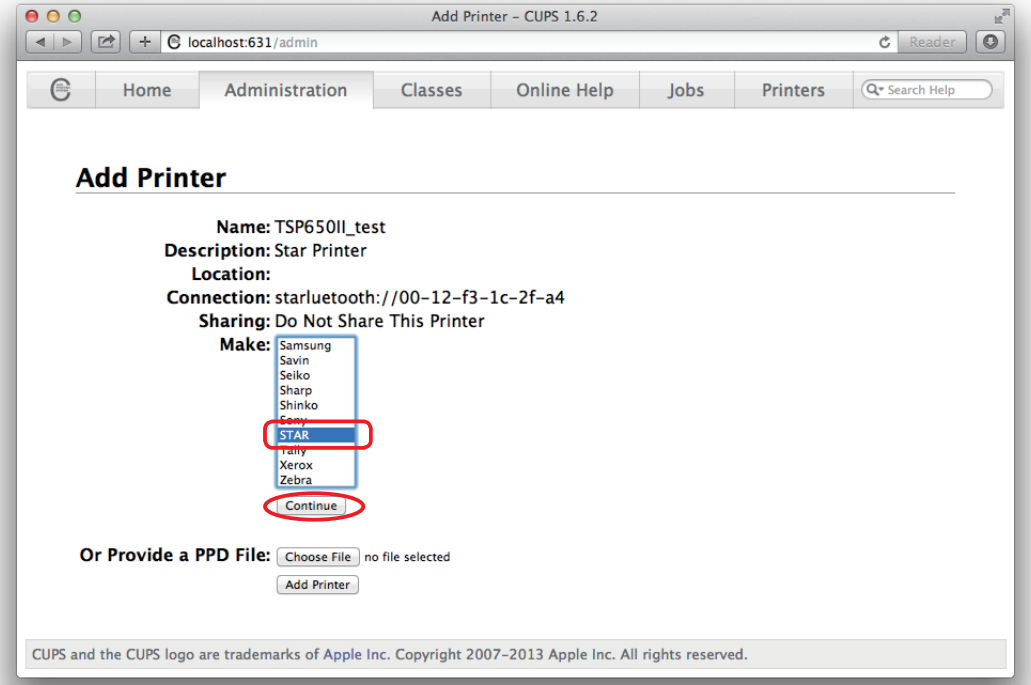


Point! The Bluetooth address is included in the Bluetooth information printed by self-print (by powering on while pressing the Feed button).

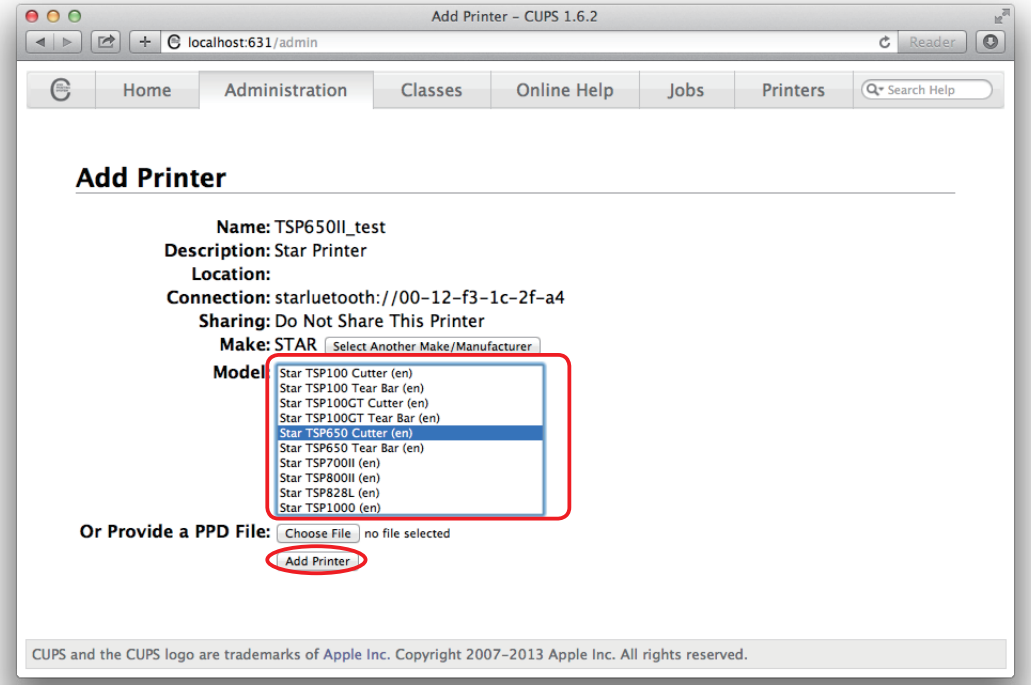
6. In the Add Printer screen, enter the printer name, location and description. Then click "Continue". Location and Description can be left blank.



7. Select "STAR" as the Make. Then click "Continue".



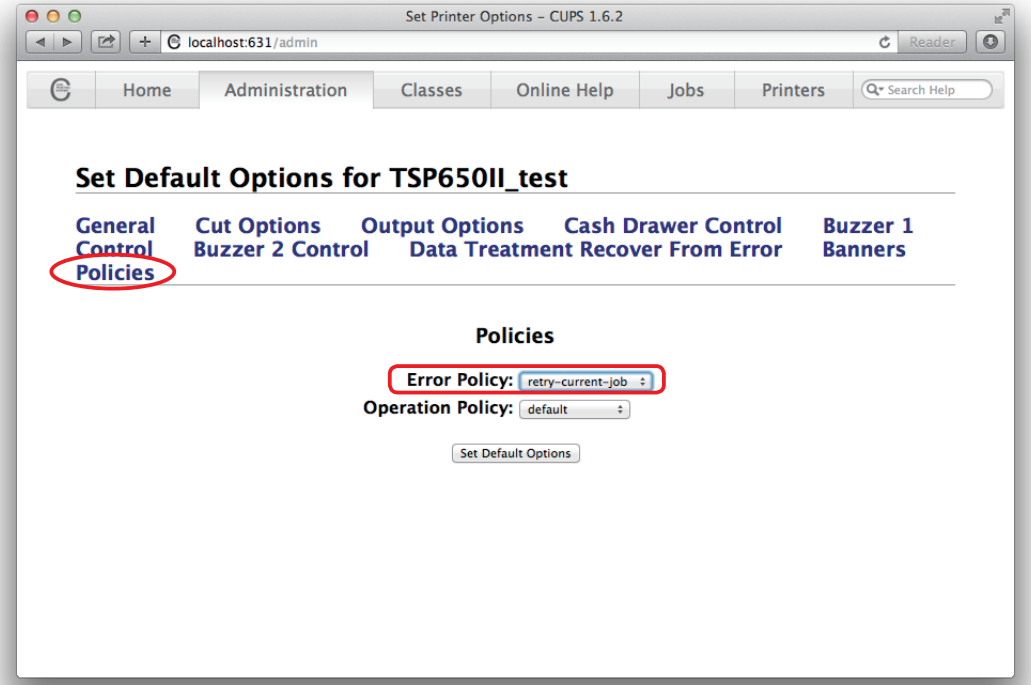
8. Select the printer model. Then click "Add Printer".



Point! If you want to use TSP654II, please select the following driver.

Star TSP650 Cutter (TSP654)

9. In the Set Printer Options screen, select "Policies" and set "Error Policy:" to [retry-current-job].



This completes the bluetooth printer installation and registration.

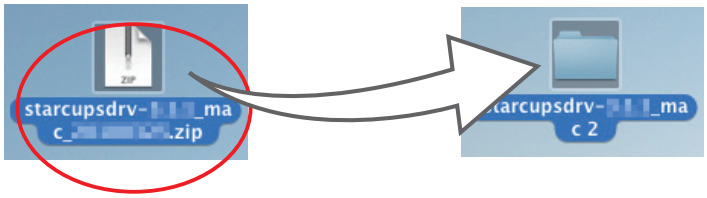
1.3 Uninstalling Star Printer Drivers

To uninstall the driver, proceed as follows.

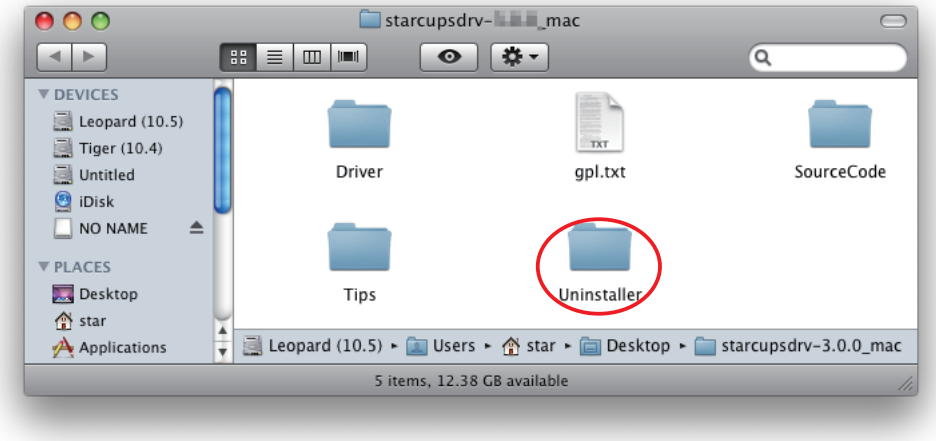
> Important : When you uninstall the Star Printer Driver,all drivers for Star Printers installed on your Macintosh computer are deleted.

1. Turn off the power switch of the Printer.

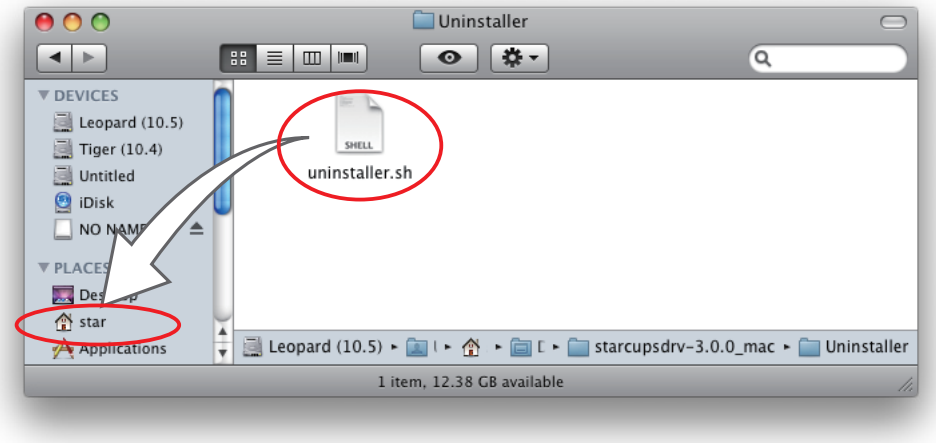
2. Double-click [starcupsdrv-x.xx.x_mac_yyyymmdd.zip] you copied to your desktop to decompress it.



3. The screen below appears by double-clicking the expanded <starcupsdrv-x.xx.x_mac> file. Click on the "Uninstaller" folder to open it.

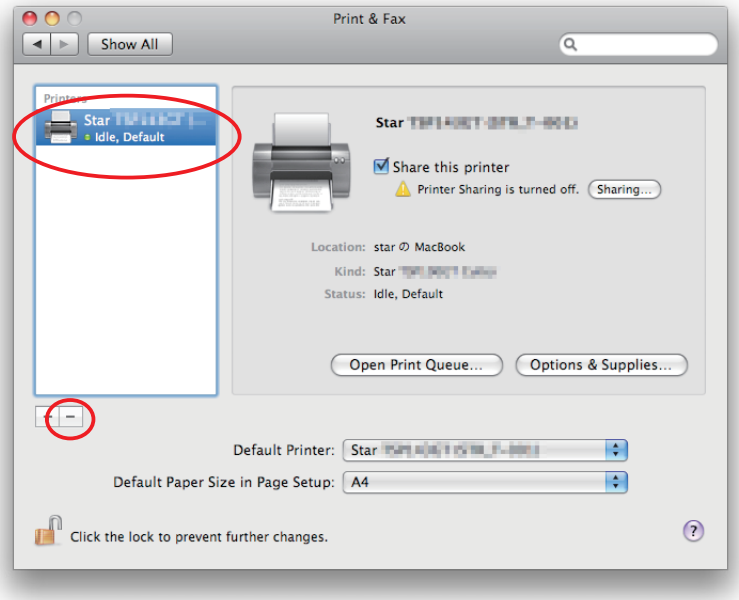


4. Copy "uninstaller.sh" to your home directory.

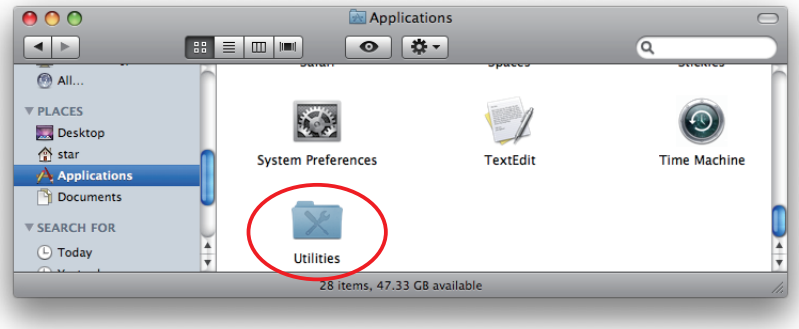


5. In the Apple mark in the menu bar, open [System Preferences] and click on the [Printer & Fax] icon.

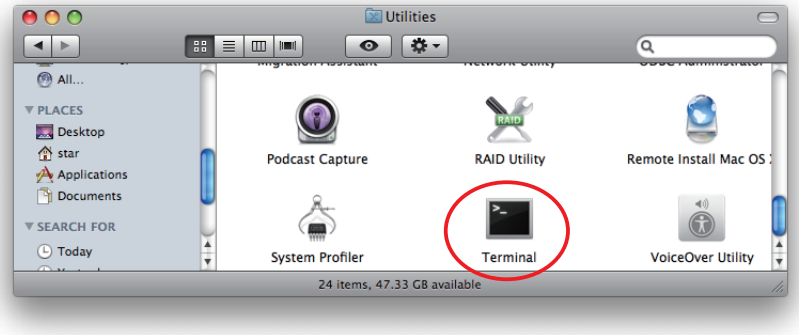
6. Delete the entire Star printer queue from the printers list.



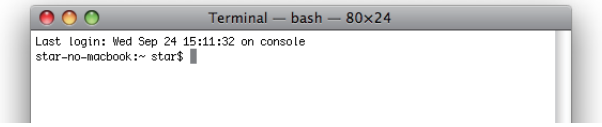
7. Startup the Finder from the Mac OS X Dock and click [Applications] - [Utilities].



8. Click on [Terminal].

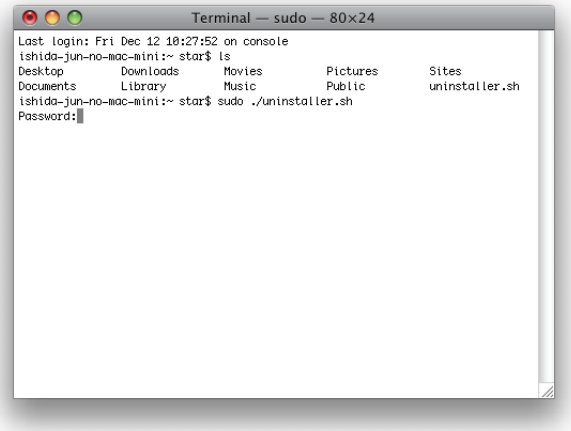


9. The terminal starts up.



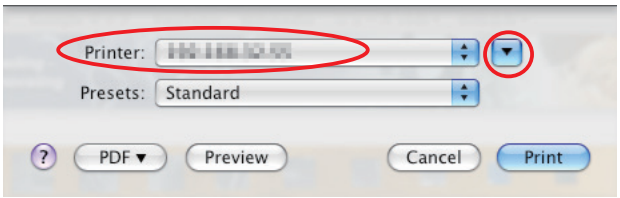
10. Uninstall the Star Printer Driver by running the following command on your terminal.
    When starting up, you will be prompted to input your user password.

    sudo ./uninstaller.sh

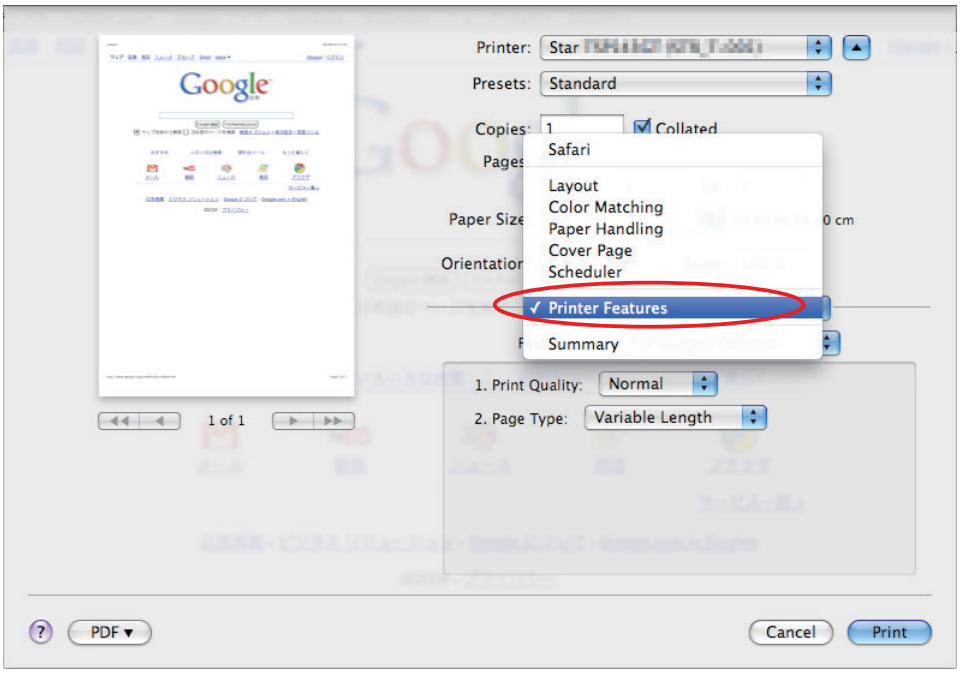


2. Setting Printer Functions

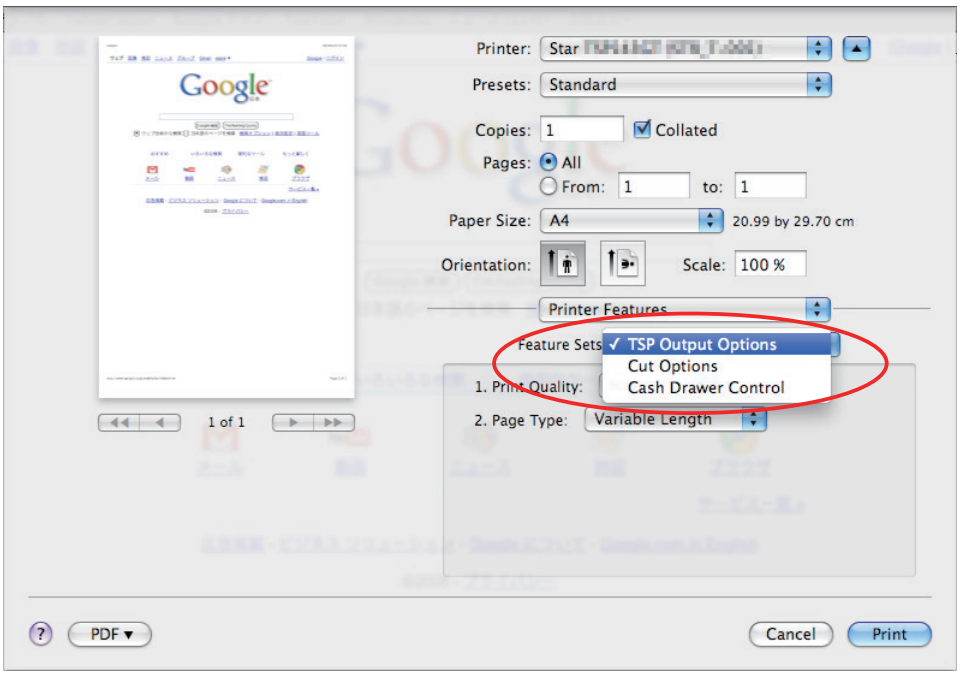
Use the dialog box opened by [File] -> [Print] in the Mac OS X menu.
From the "Printer:" pull-down menu, select the printer name to set, then click [▼] to display the details.



Select "Printer Features" from the setting pull-down menu.



"Feature Sets:" Customizes printer operation.



2.1 Function List

Depending on the printer that you select, the functions that are displayed may differ, and only the ones displayed can be set.
Refer to the function guide for details.

■ Output Options

• **Print Speed:**

Sets the print speed. Note that the setting also affects the print quality.

Setting	Default	Details
High	○	Print speed has priority over quality.
Middle		Print quality and speed are in the middle.
Low		Best quality, but slow print speed.

• **Print Density:**

Sets the printing density.

Setting Value	Default	Details
-3 to -1		Larger value with -(minus) makes print density lighter.
Standard	○	Prints with normal density.
+1 to +3		Larger value with +(plus) makes print density darker.

Point! This function is supported by the TSP650 and TSP650II series.

• **Page Type:**

Sets the page type.

Setting	Default	Details
Variable Length	○	Does not output blank data until the bottom of the page. Receipt ends after final data is printed.
Fixed Length		Outputs blank data as a blank until the bottom of the page. Receipt ends after printing the length specified by paper size.

• **Top Search:**

Selects whether the printer executes a reverse-feed before print.

Setting	Default	Details
Disable	○	No reverse-feed before print.
Enable		Executes reverse-feed before print.

Point! This function is supported by TSP700II series, TSP800II series and TSP1000.

Note : This function is available only when the **Cut Options** setting is configured to 'Full Cut'.
The function is not available when 'PartialCut' is selected.

■ Cut Options (Cutter Model)

• **Page Cut Type:**

This sets the cutting method for the end of all pages, excluding the last page.

Setting	Default	Details
No Cut	○	Does not perform a cut and page feed.
Partial Cut		Feeds paper to cutting position, then cuts the paper, leaving one uncut point in center of paper.
Full Cut *		Paper is fed to cutting position, then a full cut is applied.

* Not supported by the TSP100 series and TSP650 series.

• **Document Cut Type:**

This sets the cutting method for the last page.

Setting	Default	Details
No Cut		Does not perform a cut and page feed.
Partial Cut	○*1	Feeds paper to cutting position, then cuts the paper, leaving one uncut point in center of paper.
Tear Bar		Paper is fed to the tear bar (cutting position).
Full Cut *2		Paper is fed to cutting position, then a full cut is applied.

*1 The default value of TSP1000 is "Full Cut".
*2 Not supported by the TSP100 series and TSP650 series.

■ Feed Options (Tear Bar Model)

• **Page Feed Type:**

This sets the page feed operation for the end of all pages, excluding the last page.

Setting	Default	Details
No Feed	○	The paper feed operation is not performed.
Tear Bar		Paper is fed to the tear bar (cutting position).

• **Document Feed Type:**

This sets the page feed operation for the last page.

Setting	Default	Details
No Feed		The paper feed operation is not performed.
Tear Bar	○	Paper is fed to the tear bar (cutting position).

■ Data Treatment Recover From Error

• **Data Treatment Recover From Error:**

When an error occurs, you can handle the unprinted data which has already been sent to the printer as below.

Setting	Default	Details
No Use		After the recovery, the unprinted data of the remainder is printed after the recovery from the error.
Clear Data By Document Unit	○	After the recovery, the unprinted data of the remainder is canceled after the recovery from the error.

Point! This function is supported by TSP650, TSP650II, TSP700ii and TSP800II series.

Note (TSP650 and TSP700II)

This feature does not operate correctly with old firmware. If you are using version 3.0 or earlier of the firmware, select 'No Use'. You can check the firmware version by executing Self-Printing. To update the printer's firmware, contact your STAR dealer.

■ Cash Drawer Control

• **Cash Drawer:**

This sets the operations of the cash drawer.

Setting Value	Default Value	Details
Do Not Open Drawers	○	No cash drawer drive.
Open Drawer 1		Drives cash drawer 1 immediately after printing.
Open Drawer 2		Drives cash drawer 2 immediately after printing.
Open Drawer 1 and 2		Drives cash drawers 1 and 2 immediately after printing.

• **Cash Drawer 1 Pulse Width:**

This sets the cash drawer 1 pulse width.

Setting Value	Default Value	Details
10 milliseconds		Sets the pulse width to 0.01 seconds.
100 milliseconds		Sets the pulse width to 0.1 seconds.
200 milliseconds	○	Sets the pulse width to 0.2 seconds.
300 milliseconds		Sets the pulse width to 0.3 seconds.
400 milliseconds		Sets the pulse width to 0.4 seconds.
500 milliseconds		Sets the pulse width to 0.5 seconds.
600 milliseconds		Sets the pulse width to 0.6 seconds.
700 milliseconds		Sets the pulse width to 0.7 seconds.
800 milliseconds		Sets the pulse width to 0.8 seconds.
900 milliseconds		Sets the pulse width to 0.9 seconds.
1000 milliseconds		Sets the pulse width to 1.0 seconds.
1100 milliseconds		Sets the pulse width to 1.1 seconds.
1200 milliseconds		Sets the pulse width to 1.2 seconds.

Note : 1) Do not enable the cash drawer and buzzer at the same time.
2) The pulse width for cash drawer 2 is fixed at 200 milliseconds.

■ Buzzer 1 Control and Buzzer 2 Control

• **Buzzer 1 (or Buzzer 2):**

This sets the drive of either buzzer 1 or buzzer 2.

Setting Value	Default Value	Details
No Use	○	Buzzer 1 or buzzer 2 is not used.
Document Top		Executes buzzer 1 (or 2) at the top of the document.
Document Bottom		Executes buzzer 1 (or 2) at the bottom of the document.

Cautions : **When a device other than a buzzer, such as a cash drawer, is connected, select 'No Use'. There is the possibility that the connected device and the circuit can be damaged by using the Buzzer Control command.**

• **Buzzer 1 (Buzzer 2) - On Time:**

This sets the time to ring buzzer 1 or buzzer 2.

Setting Value	Default Value	Details
20 milliseconds	○	Sets to 0.02 seconds.
40 milliseconds		Sets to 0.04 seconds.
100 milliseconds		Sets to 0.1 seconds.
200 milliseconds		Sets to 0.2 seconds.
500 milliseconds		Sets to 0.5 seconds.
1000 milliseconds		Sets to 1.0 seconds.
2000 milliseconds		Sets to 2.0 seconds.
5000 milliseconds		Sets to 5.0 seconds.

• **Buzzer 1 (Buzzer 2) - Off Time:**

This sets buzzer 1 or buzzer 2 off time.

Setting Value	Default Value	Details
20 milliseconds	○	Sets to 0.02 seconds.
40 milliseconds		Sets to 0.04 seconds.
100 milliseconds		Sets to 0.1 seconds.
200 milliseconds		Sets to 0.2 seconds.
500 milliseconds		Sets to 0.5 seconds.
1000 milliseconds		Sets to 1.0 seconds.
2000 milliseconds		Sets to 2.0 seconds.
5000 milliseconds		Sets to 5.0 seconds.

• **Buzzer 1 (Buzzer 2) - Repeat:**

This sets the number of times to ring buzzer 1 (or buzzer 2) driven by the timing set at 1:Buzzer 1 (or Buzzer 2).

The buzzer will stop regardless of the number of times set to ring by pressing the "FEED".

Setting Value	Default Value	Details
1	○	Rings buzzer 1 (or buzzer 2) Once.
2		Rings buzzer 1 (or buzzer 2) twice.
3		Rings buzzer 1 (or buzzer 2) three times.
5		Rings buzzer 1 (or buzzer 2) five times.
10		Rings buzzer 1 (or buzzer 2) ten times.
15		Rings buzzer 1 (or buzzer 2) fifteen times.
20		Rings buzzer 1 (or buzzer 2) twenty times.

Note : 1) Do not enable the cash drawer and buzzer at the same time.
2) The buzzer ringing time and off time should not exceed 90 seconds in total.

■ Peripheral Control (TSP1000)

• **Peripheral:**

Sets peripheral unit operation.

Setting Value	Default Value	Details
Do Not Activate	○	Does not use the peripheral unit.
Activate		Operates the peripheral unit.

• **Peripheral Activation Pulse Width:**

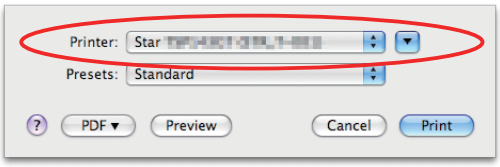
Sets the pulse width for peripheral unit activation.

Setting Value	Default Value	Details
20 milliseconds		Sets the pulse width to 0.02 seconds.
100 milliseconds		Sets the pulse width to 0.1 seconds.
200 milliseconds	○	Sets the pulse width to 0.2 seconds.
300 milliseconds		Sets the pulse width to 0.3 seconds.
400 milliseconds		Sets the pulse width to 0.4 seconds.
500 milliseconds		Sets the pulse width to 0.5 seconds.
600 milliseconds		Sets the pulse width to 0.6 seconds.
700 milliseconds		Sets the pulse width to 0.7 seconds.
800 milliseconds		Sets the pulse width to 0.8 seconds.
900 milliseconds		Sets the pulse width to 0.9 seconds.
1000 milliseconds		Sets the pulse width to 1.0 seconds.
1100 milliseconds		Sets the pulse width to 1.1 seconds.
1200 milliseconds		Sets the pulse width to 1.2 seconds.

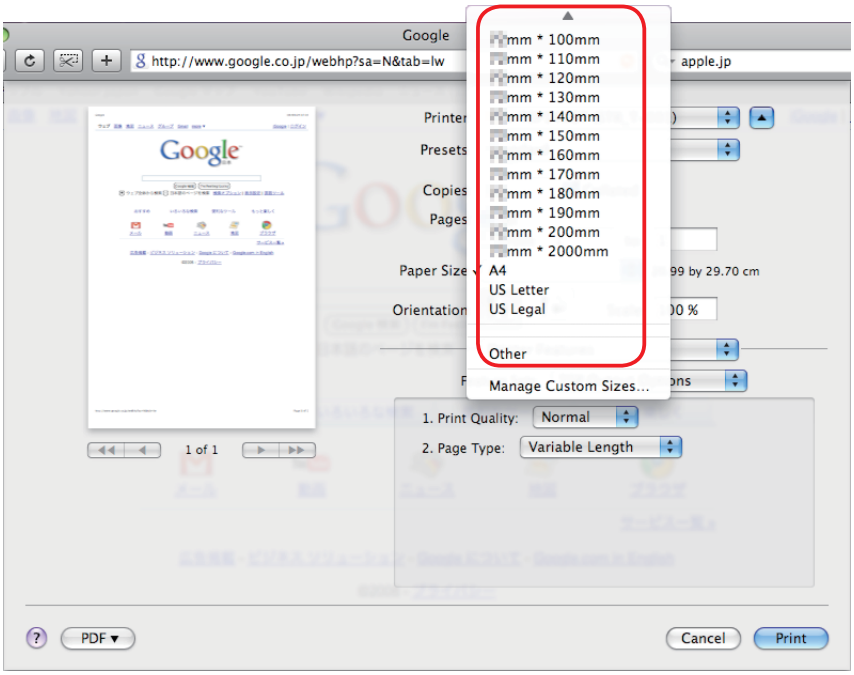
3. Setting the Paper Size

3.1 Setting the Paper Size

From the menu bar on Mac OS X, open [File] - [Printers].
Select the printer to set from the "Printer:" pull-down menu.
If details are not displayed, click on [▼] to display them.



Next, select the paper size from the Paper Size pull-down menu.
See section 3.2 Settable Paper Sizes for details on the sizes of paper that can be used.



Point! When a paper size is selected that exceeds the maximum printing width, the print is shrunk to fit the maximum printing width.

Limitations for Bluetooth models:

The maximum page length printable by Bluetooth printers is 1500 mm. Please specify the paper size within 1500 mm.

3.2 Settable Paper Sizes

The following paper sizes are available and can be set.

Paper Size	Supported Models											
	TSP 143IIU	TSP 113U	TSP 143U	TSP 113GT	TSP 143GT	TSP 113LAN	TSP 143LAN	TSP 651/654	TSP 654II	TSP 700II	TSP 800II	TSP 1000
50.8 * 30mm	○	○	○	○	○	○	○	○	○	○		
50.8 * 40mm	○	○	○	○	○	○	○	○	○	○		
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮		
50.8 * 190mm	○	○	○	○	○	○	○	○	○	○		
50.8 * 200mm	○	○	○	○	○	○	○	○	○	○		
50.8 * 1500mm									○	○		
50.8 * 2000mm	○	○	○	○	○	○	○	○	○	○		
52 * 30mm										○		
52 * 40mm										○		
⋮										⋮		
52 * 190mm										○		
52 * 200mm										○		
52 * 1500mm										○		
52 * 2000mm										○		
52.5 * 30mm										○		
52.5 * 40mm										○		
⋮										⋮		
52.5 * 190mm										○		
52.5 * 200mm										○		
52.5 * 1500mm										○		
52.5 * 2000mm										○		
72 * 30mm	○	○	○	○	○	○	○	○	○	○		○
72 * 40mm	○	○	○	○	○	○	○	○	○	○		○
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮		⋮
72 * 190mm	○	○	○	○	○	○	○	○	○	○		○
72 * 200mm	●	●	●	●	●	●	●	●	●	○		○
72 * 1500mm									○	○		
72 * 2000mm	○	○	○	○	○	○	○	○	○	○		○
80 * 30mm										○		○
80 * 40mm										○		○
⋮										⋮		⋮
80 * 190mm										○		○
80 * 200mm										●		●
80 * 1500mm										○		
80 * 2000mm										○		○
104 * 30mm											○	
104 * 40mm											○	
⋮											⋮	
104 * 190mm											○	
104 * 200mm											●	
104 * 1500mm											○	
104 * 2000mm											○	
A4	○	○	○	○	○	○	○	○	○	○	○	○
Letter	○	○	○	○	○	○	○	○	○	○	○	○
Legal	○	○	○	○	○	○	○	○	○	○	○	○

* ● is the default setting value.
In some cases, these settings will not work as expected depending on the application being used to print from.

4. Guidelines for Using an Ethernet Environment

The printer's IP address must be set in advance to use a printer that supports LAN using this driver. If your LAN environment does not allow acquisition of an IP address from a DHCP server, set the IP address to the printer in advance.

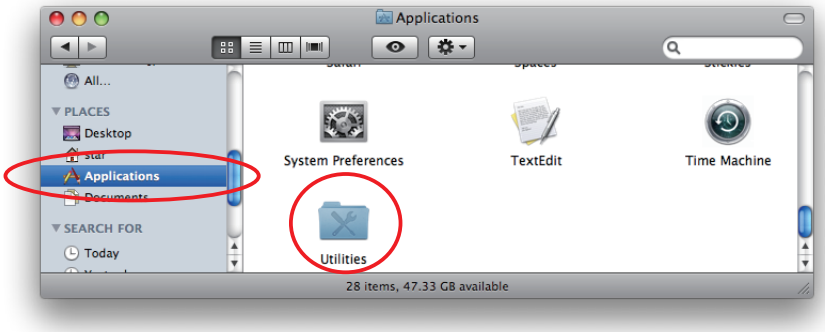
4.1 Setting a Temporary IP Address

Use the following procedures to set a temporary IP address to the printer.

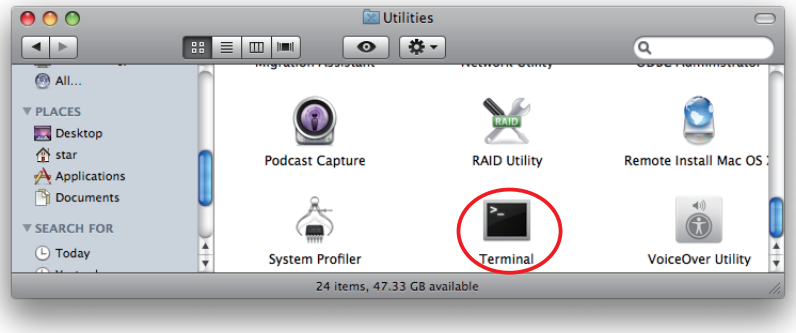
> ***Important :*** Printer settings should be done by a user with administrator rights.

> **Point!** A MAC address of the printer to be set is necessary for the temporary IP address. Confirm the MAC address in a self-print from the printer. See the Hardware Manual for details on running a self-print.

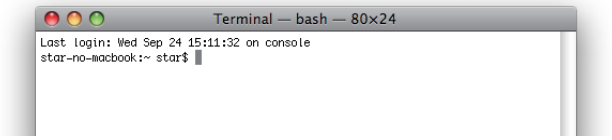
1. Connect the Ethernet cable to the printer and turn the power ON to the printer.
2. Startup the Finder from the Mac OS X Dock and click [Applications] - [Utilities].



3. Click on [Terminal].



3. The terminal starts up.



Execute the following command in the terminal to set a temporary IP address to the printer.

1. sudo arp -d [Printer temporary IP address]
2. sudo arp -s [Printer temporary IP address] [Printer MAC address]
3. ping -c 4 [Printer temporary IP address]
4. sudo arp -d [Printer temporary IP address]

Example of temporary IP address (192.168.222.217)

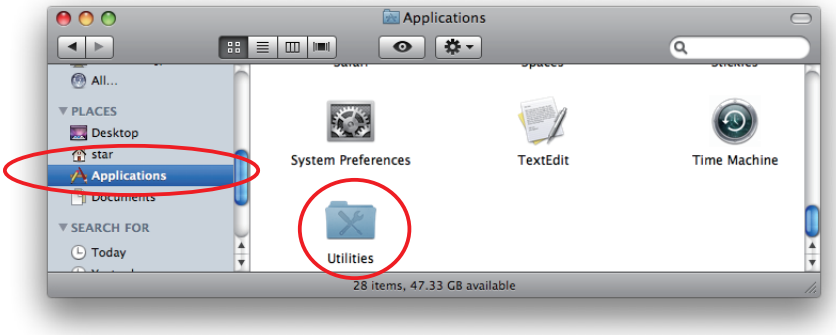
```
sudo arp -d 192.168.222.217
sudo arp -s 192.168.222.217 00:11:62:00:03:4D
ping -c 4 192.168.222.217
sudo arp -d 192.168.222.217
```

Note: The temporary IP address set here is erased when the printer power is turned off. Continue by setting the IP address. (From (2) in section 4.2.)

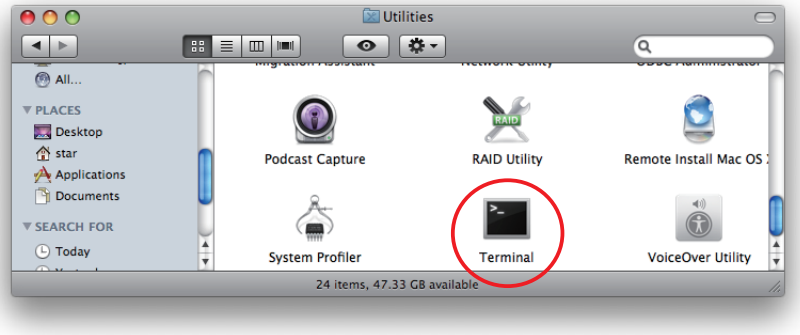
4.2 Setting the IP Address << StarPrinter TELNET Utility >>

The Telnet command connects directly to the printer to make settings.

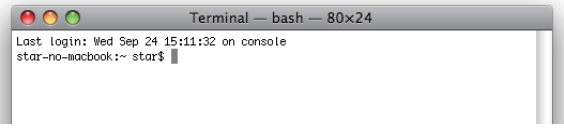
1. Connect the Ethernet cable to the printer and turn the power ON to the printer.
2. Startup the Finder from the Mac OS X Dock, and and click [Applications] - [Utilities].



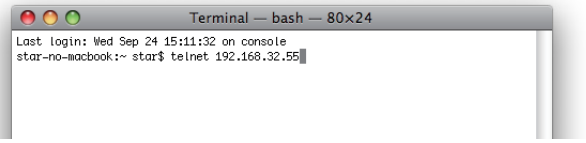
3. Click on [Terminal].



4. The terminal starts up.



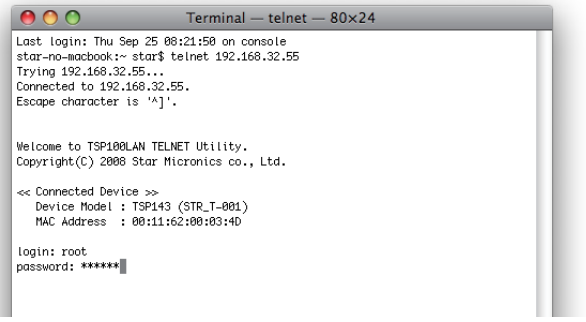
5. Use the Telnet command to connect to the printer to set.



Ex. >telnet 192.168.222.217 (The IP address of the printer to be set.)

> ***Note:*** **You cannot connect to a printer that does not have an IP address. See section 4.1 Setting a Temporary IP Address for details on setting such an address on the printer in advance.**

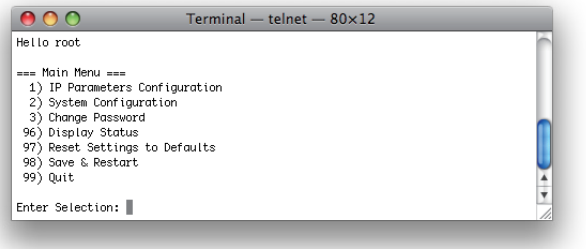
6. Log-in to the printer to be set as a "root" user.
   The default password is "public."
   To change the password, input the changed password.



7. The following menu is displayed.

   1) IP Parameters Configuration
   2) System Configuration
   3) Change Password
   96) Display Status
   97) Reset Settings to Defaults
   98) Save and Restart
   99) Quit
   Enter Selection

Input the number that corresponds to your selection.



8. When all settings are completed, save the changes using "98(Save and Restart)" - "1(Save & Restart device & Configuration printing)", or "2 (Save & Restart device)". The settings of the printer will be saved. Reset the printer.

Example : *Set the fixed IP address <192.168.222.55> on the printer set with the temporary IP address <192.168.222.217>, the check printing the setting contents.*

>**telnet 192.168.222.217**
login : **root**
password : ****** (Use "public" when not making changes.)
Enter Selection : **1** (IP Parameters Configration)
Enter Selection : **1** (Static)
Enter Selection : **1** (IP Address)
Enter IP address (x.x.x.x) : **192.168.222.55**
Enter Selection : **99** (Back to IP Address Menu)
Enter Selection : **99** (Back to Main Menu)
Enter Selection : **98** (Save & Restart)
Enter Selection : **1** (Save & Configuration printing & Restart device)

* The actual input portions are shown in bold characters.

5. Guidelines for Using the lpr Command

When printing using the lpr command from the command line, you can specify options with the following format.

$lpr -o [option]=[value] -o [option]=[value] ... [Filename]

In [option] • [value], specify the name shown in the command "specify name" in section 5.1 List of Supported Functions".
Also for options not specified, print using the default driver settings.

Point! Use the printer name confirmed using the "lpstat -p" command, when specifying the printer name using the option "-P".

Use Example 1

Printer Name :	TSP143_ _STR_T_001_
File Name :	sample1.txt
Paper Size * :	50.8 * 200mm
Margin(top) * :	0mm
Margin(bottom) * :	0mm
Margin(left)* :	0mm
Margin(right)* :	0mm

* This option is not a printer driver option, but an OS standard option.

```
$ lpr -P TSP143_ _STR_T_001_ -o media="X50D8MMY200MM"
-o page-top=0 -o page-bottom=0 -o page-left=0
-o page-right=0 sample1.txt
```

Use Example 2

File Name :	sample2.txt
Print Speed :	Low

```
$ lpr -o PrintSpeed=2Low sample2.txt
```

Use Example 3

File Name :	sample3.txt
Document Cut Type :	No Cut

```
$ lpr -o DocCutType=0NoCutDoc sample3.txt
```

5.1 Function List

See section 2.1 Function List for the details on the functions.

	Option Name		Command		Supported Model											
	option	value	[option]	[value]	TSP 143 IIU	TSP 113 U	TSP 143 U	TSP 113 GT	TSP 143 GT	TSP 113 LAN	TSP 143 LAN	TSP 651	TSP 654/ 654II	TSP 700II	TSP 800II	TSP 1000
Output Option	Print Speed	High	**PrintSpeed**	**0High**	●	●	●	●	●	●	●	●	●	●	●	●
		Middle		**1Middle**	○	○	○	○	○	○	○	○	○	○	○	○
		Low		**2Low**	○	○	○	○	○	○	○	○	○	○	○	○
	Print Density	-3	**PrintDensity**	**0Minus3**								○	○			
		-2		**1Minus2**								○	○			
		-1		**2Minus1**								○	○			
		Standard		**3ZERO**								●	●			
		+1		**4Plus1**								○	○			
		+2		**5Plus2**								○	○			
		+3		**6Plus3**								○	○			
	Page Type	Variable Length	**PageType**	**0Variable**	●	●	●	●	●	●	●	●	●	●	●	●
		Fixed Length		**1Fixed**	○	○	○	○	○	○	○	○	○	○	○	○
	Top Search	Disable	**TopSearch**	**0Disable**										●	●	●
		Enable		**1Enable**										○	○	○
Cut Options (Cutter)	Page Cut Type	No Cut	**PageCutType**	**0NoCutPage**	●		●		●		●		●	●	●	●
		Partial Cut		**1PartialCutPage**	○		○		○		○		○	○	○	
		Full Cut		**2FullCutPage**										○	○	○
	Document Cut Type	No Cut	**DocCutType**	**0NoCutDoc**	○		○		○		○		○	○	○	○
		Partial Cut		**1PartialCutDoc**	●		●		●		●		●	●	●	
		Full Cut		**2FullCutDoc**										○	○	●
		Tear Bar		**3TearBarDoc**											○	
Feed Options (TearBar)	Page Feed Type	No Feed	**PageCutType**	**0NoCutPage**		●		●		●		●				
		Tear Bar		**1TearBarPage**		○		○		○		○				
	Document Feed Type	No Feed	**DocCutType**	**0NoCutDoc**		○		○		○		○				
		Tear Bar		**1TearBarDoc**		●		●		●		●				
Data Treatment Recover From Error	Data Treatment Recover From Error	No Use	**DataTreatment RecoverFrom Error**	**0NoUse**								○	○	○	○	
		Clear Data By Document Unit		**1ClearDataBy DocumentUnit**								●	●	●	●	
Cash Drawer Control	Cash Drawer	Do Not Open Drawers	**PresenterTimeout**	**0DoNotOpen Drawers**	●	●	●	●	●	●	●	●	●	●	●	●
		Open Drawer 1		**1OpenDrawer1**	○	○	○	○	○	○	○	○	○	○	○	○
		Open Drawer 2		**2OpenDrawer2**	○	○	○	○	○	○	○	○	○	○	○	○
		Open Drawer 1 and 2		**3OpenDrawer3**	○	○	○	○	○	○	○	○	○	○	○	○
	Cash Drawer 1 Pulsh Width	10 milliseconds	**CashDrawer1PulseWidth**	**0Millis10**	○	○	○	○	○	○	○	○	○	○	○	○
		100 milliseconds		**1Millis100**	○	○	○	○	○	○	○	○	○	○	○	○
		200 milliseconds		**2Millis200**	●	●	●	●	●	●	●	●	●	●	●	●
		300 milliseconds		**3Millis300**	○	○	○	○	○	○	○	○	○	○	○	○
		400 milliseconds		**4Millis400**	○	○	○	○	○	○	○	○	○	○	○	○
		500 milliseconds		**5Millis500**	○	○	○	○	○	○	○	○	○	○	○	○
		600 milliseconds		**6Millis600**	○	○	○	○	○	○	○	○	○	○	○	○
		700 milliseconds		**7Millis700**	○	○	○	○	○	○	○	○	○	○	○	○
		800 milliseconds		**8Millis800**	○	○	○	○	○	○	○	○	○	○	○	○
		900 milliseconds		**9Millis900**	○	○	○	○	○	○	○	○	○	○	○	○
		1000 milliseconds		**10Millis1000**	○	○	○	○	○	○	○	○	○	○	○	○
		1100 milliseconds		**11Millis1100**	○	○	○	○	○	○	○	○	○	○	○	○
		1200 milliseconds		**12Millis1200**	○	○	○	○	○	○	○	○	○	○	○	○

	Option Name		Command Name		Supported Model											
	option	value	[option]	[value]	TSP 143 IIU	TSP 113 U	TSP 143 U	TSP 113 GT	TSP 143 GT	TSP 113 LAN	TSP 143 LAN	TSP 651	TSP 654/ 654II	TSP 700II	TSP 800II	TSP 1000
Buzzer1 Control / Buzzer2 Control	Buzzer1 / Buzzer2	No Use	**Buzzer1Setting / Buzzer2Setting**	**0NoUse**								●	●	●		
		Document Top		**1DocumentTop**								○	○	○		
		Document Bottom		**2DocumentBtm**								○	○	○		
	Buzzer1- On Time / Buzzer2 - On Time	20 milliseconds	**Buzzer1OnTime / Buzzer2OnTime**	**0Millis20**								●	●	●		
		40 milliseconds		**1Millis40**								○	○	○		
		100 milliseconds		**2Millis100**								○	○	○		
		200 milliseconds		**3Millis200**								○	○	○		
		500 milliseconds		**4Millis500**								○	○	○		
		1000 milliseconds		**5Millis1000**								○	○	○		
		2000 milliseconds		**6Millis2000**								○	○	○		
		5000 milliseconds		**7Millis5000**								○	○	○		
	Buzzer1 - Off Time / Buzzer2 - Off Time	20 milliseconds	**Buzzer1OffTime / Buzzer2OffTime**	**0Millis20**								●	●	●		
		40 milliseconds		**1Millis40**								○	○	○		
		100 milliseconds		**2Millis100**								○	○	○		
		200 milliseconds		**3Millis200**								○	○	○		
		500 milliseconds		**4Millis500**								○	○	○		
		1000 milliseconds		**5Millis1000**								○	○	○		
		2000 milliseconds		**6Millis2000**								○	○	○		
		5000 milliseconds		**7Millis5000**								○	○	○		
	Buzzer1- Repeat / Buzzer2 - Repeat	1	**Buzzer1Repeat / Buzzer2Repeat**	**0Repeat1**								●	●	●		
		2		**1Repeat2**								○	○	○		
		3		**2Repeat3**								○	○	○		
		5		**3Repeat5**								○	○	○		
		10		**4Repeat10**								○	○	○		
		15		**5Repeat15**								○	○	○		
		20		**6Repeat20**								○	○	○		
Peripheral Control	Peripheral	Do Not Activate	**PeripheralSetting**	**0DoNotActivate**												●
		Activate		**1Activate**												○
	Peripheral Activation Pulse Width	20 milliseconds	**PeripheralActivation PulseWidth**	**0Millis20**												○
		100 milliseconds		**1Millis100**												○
		200 milliseconds		**2Millis200**												●
		300 milliseconds		**3Millis300**												○
		400 milliseconds		**4Millis400**												○
		500 milliseconds		**5Millis500**												○
		600 milliseconds		**6Millis600**												○
		700 milliseconds		**7Millis700**												○
		800 milliseconds		**8Millis800**												○
		900 milliseconds		**9Millis900**												○
		1000 milliseconds		**10Millis1000**												○
		1100 milliseconds		**11Millis1100**												○
		1200 milliseconds		**12Millis1200**												○

* ●is the default setting value.

6. Confirmed Operating Environments

- **Mac OS X 10.5 Intel**

  ▶ **Macbook**

  OS: Mac OS X 10.5
  CPU: 1.83GHz Intel Core2 Duo
  RAM: 512MB 667MHz DDR2 SDRAM

- **Mac OS X 10.6 Intel, Mac OS X 10.7 Intel, Mac OS X 10.8 Intel Mac OS X 10.9 Intel, Mac OS X 10.10 Intel**

  ▶ **iMac**

  OS: Mac OS X 10.6.2
  Mac OS X 10.7
  Mac OS X 10.8
  Mac OS X 10.9
  Mac OS X 10.10
  CPU: 3.06GHz Intel Core2 Duo
  RAM: 4GB 1067MHz DDR2 SDRAM

7. Revision History

Rev. No.	Date	Content
Rev. 1.0	Jan, 2009	New release.
Rev. 2.0	Jun, 2009	Error correction.
Rev. 3.0	Mar. 2010	Added a new model "TSP800II".
Rev. 4.0	Sep. 2010	Added support for Star cups Driver 3.2.0. Added support for new models of 'Data Treatment Recover From Error Command' and 'Buzzer Command'.
Rev. 5.0	Feb. 2013	Added a new model "TSP654II". Added support for Mac OS 7, Mac OS 8.
Rev. 5.1	May 2013	Error correction.
Rev. 6.0	Jan. 2015	Added support for Bluetooth.

URL: http://www.starmicronics.com/support/