



# DiscoveryTool Manual

Version 1.0 Nov. 2013

STAR MICRONICS CO., LTD.

# Table of Contents

---

Introduction.....	3
1. Searching I P Address.....	4
1 – 1. Installation of JRE(Java Runtime Environment)(or JDK).....	4
1 – 2. How to use the DiscoveryTool.....	4
2. Guidelines for Using an Ethernet Environment.....	7
2 – 1. Setting a Temporary IP Address .....	7
2 – 2. Setting the IP Address (TELNET Utility).....	9

## Introduction

This software is a tool made by the Java language to search the IP address of Star LAN printer (including cash drawer device (SAC10E)) in the same network with host PC. If your LAN environment does not allow acquisition of an IP address from a DHCP server, set the IP address to the printer or cash drawer device.

# 1. Searching I P Address

## 1 – 1. Installation of JRE(Java Runtime Environment)(or JDK)

This software made by the Java language

Please refer to the following URL and install the JRE(orJDK) to the using PC.

URL: <http://www.oracle.com/technetwork/java/javase/downloads/index.html>

## 1 – 2. How to use the DiscoveryTool

1 – 2 – 1. Startup the command prompt (Windows) or terminal (Linux, Mac).

1 – 2 – 2. Move to current folder which is included the "DiscoveryTool.jar" by cd command.

*Command:* cd "<The place which is included the DiscoveryTool.jar>"

***For Example :***

<Windows>

In case of the place is "C:\DiscoveryTool".

cd C:\DiscoveryTool

<Linux><Mac>

In case of the place is "/usr/local/DiscoveryTool"

cd /usr/local/DiscoveryTool

1 – 2 – 3. Startup the "DiscoveryTool.jar" by java command

*Command:* java -jar DiscoveryTool.jar

***Notes:*** When use commands, need to be as a root authority. (depends on place)

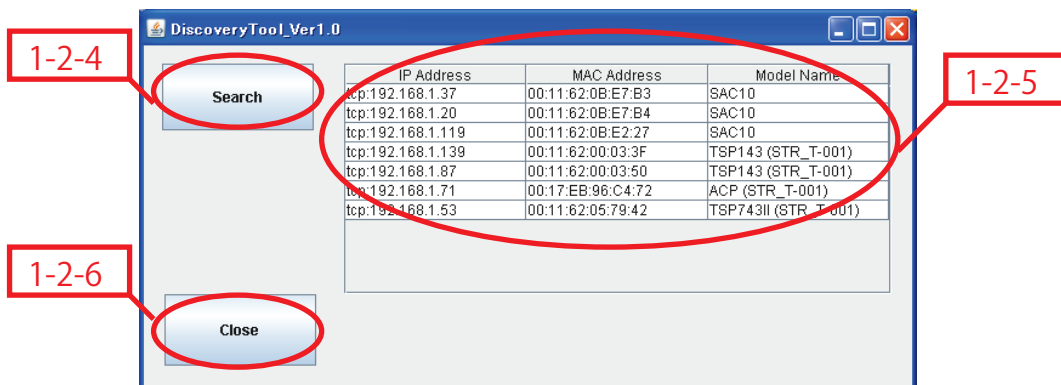
1 – 2 – 4. When startup the “DiscoveryTool”, push the “Search” button.

1 – 2 – 5. The Searching result will show in the “IP Address”, “MAC Address”, “Model Name” items. So can get the IP address of printer or cashdrawer device (SAC10).

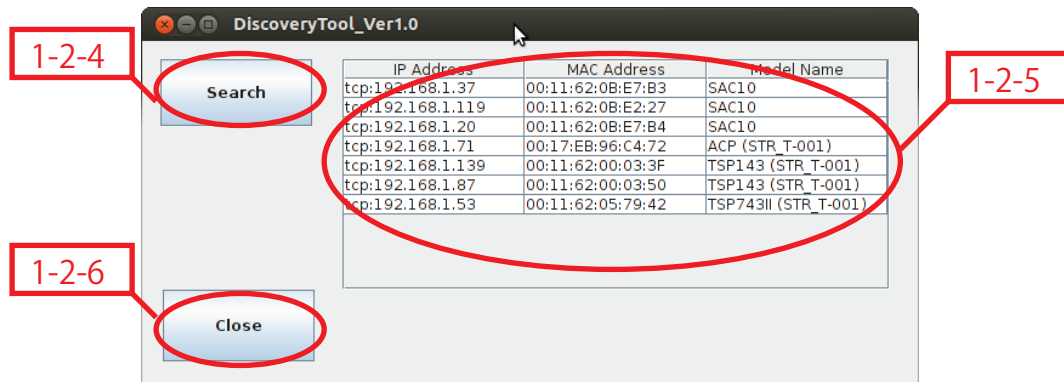
1 – 2 – 6. Push the “Close” button and finish the application.

*Example of UI viewing:*

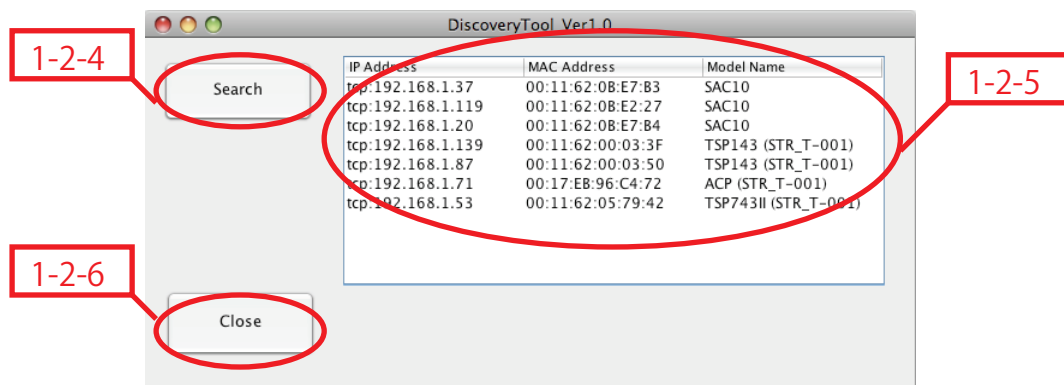
<Windows>



<Linux>



<Mac>



***Notes:***

When use SAC10E, confirm the backside of device which is described the MAC address of LAN interface.

A progress dialogue is displayed during an IP address searching. If want to stop searching, can stop by pushing "cancel" button on the dialogue. (If already finish to search, show the searching results.)

This software broadcasts a data packet to discover IP Address.

Please temporarily turn off the firewall, and some firewall software that you may use.

LAN environment does not allow acquisition of an IP address from a DHCP server, set the IP address to the printer or cash drawer device. Please refer to the "2. Guidelines for Using an Ethernet Environment".

## 2. Guidelines for Using an Ethernet Environment

When use the printer or cash drawer device(like a SAC10E), the printer's IP address must be set in advance. If your LAN environment does not allow acquisition of an IP address from a DHCP server, set the IP address to the printer.

### 2 – 1 . Setting a Temporary IP Address

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

By setting a temporary IP address, it is possible to connect to a printer that has not been set with an IP address.

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

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.

When use SAC10E, confirm the backside of device which is described MAC address of LAN interface.

2 – 1 – 1 . Startup the command prompt (Windows) or terminal (Linux, Mac).

2 – 1 – 2 . Execute the following command as a root in the command prompt or terminal to set a temporary IP address to the printer.

After operation end, please refer to “2 – 2 . IP Setting the IP Address (TELNET Utility)”

<Windows>

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

*Example of temporary IP address (192.168.32.228)*

```
arp -d 192.168.32.228
arp -s 192.168.32.228 00-11-62-04-83-98
ping 192.168.32.228
arp -d 192.168.32.228
```

<Linux><Mac>

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

*Example of temporary IP address (192.168.32.228)*

```
arp -d 192.168.32.228  
arp -s 192.168.32.228 00:11:62:04:83:98  
ping -c 4 192.168.32.228  
arp -d 192.168.32.228
```

**Notes :** When perform command as a root,

On Linux, use "su -" command or add "sudo" command in the top of "arp" command ("sudo arp").

On Mac, also add "sudo" command in the top of "arp" command ("sudo arp").

When used "su -", use "exit" command to exit super user status.

The temporary IP address set here is erased when the printer power is turned off.

Continue by the "2 — 2 . IP Setting the IP Address (TELNET Utility)"



## 2 – 2. Setting the IP Address (TELNET Utility)

The Telnet command connects directly to the printer or cash drawer device to make settings.

2 – 2 – 1. Startup the command prompt (Windows) or terminal (Linux, Mac).

2 – 2 – 2. Use the Telnet command to connect to the printer to set.

Ex. >telnet 192.168.32.228

**Notes:** You cannot connect to a printer that does not have an IP address. See section 3.1

Setting a Temporary IP Address for details on setting such an address on the printer in advance.

2 – 2 – 3. 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.

2 – 2 – 4. 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 & Restart

99) Quit

Enter Selection:

Input the number that corresponds to your selection.

2 – 2 – 5. 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.

**Notes :** Set the fixed IP address <192.168.32.55> on the printer set with the temporary IP Address <192.168.32.228>, the check printing the setting contents

> **telenet 192.168.32.228**

login : **root**

password : **\*\*\*\*\*** (Use "public" when not making changes.)

Enter Selection : **1** (IP Parameters Configuration)

Enter Selection : **1** (Static)

Enter Selection : **1** (IP Address)

Enter IP address (x.x.x.x) : **192.168.32.55**

Enter Selection : **99** (Back to IP Address Menu)

Enter Selection : **99** (Back to Main Menu)

Enter Selection : **98** (Save & Restart)

Printer ... Enter Selection : **1** (Save & Configuration printing & Restart device)

(SAC10E) ... Enter Selection : **2** (Save & Restart device)

\* The actual input portions are shown in bold characters.