

**Braille printer**  
**network setting instruction manual**

Nippon Telesoft CO., Ltd.

## 1. Introduction

**This is an instruction manual for IP address setting for the network adapter of Nippon Telesoft Braille printers,**

DOG-BASIC-SUPER, DOG-MULTI-SUPER, DOG-PRO-SUPER, Gemini Super.

### 1.1. Network support models

model	release date	features
DOG-BASIC SUPER	2013/05/01 ~	Single sided Braille
DOG-MULTI SUPER Gemini Super	2013/05/01 ~	Braille + ink print
DOG-PRO SUPER	2013/05/01 ~	front/back simultaneous

The firmware version should be more than 1.0.2.0 in order to set IP address of network adapter. (after 1.0.2.0, it supports network)

If the firmware version is older, then you should update to 1.0.2.0 or later version.

## 2. Before setting IP address

In order to set IP address, you need to start up the Braille printer in firmware update mode.

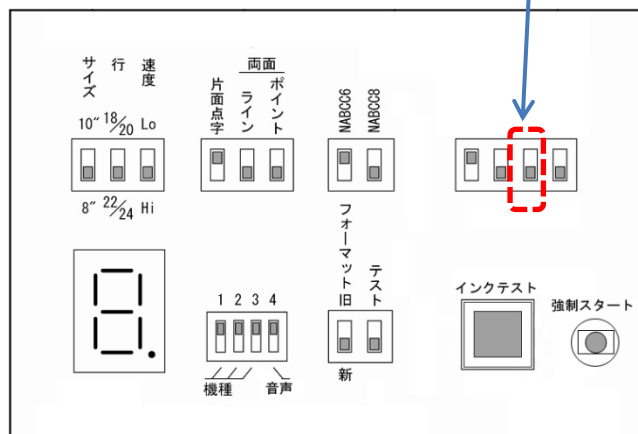
※If you start up in normal mode, you can't set IP address.

### 2.1. Prepare network setting (start up with firmware update mode)

Before setting network, you need to set Braille printer.

(Gemini Super—please open the unit cover using screw driver, you can find the switch panel in the unit)

- A) With the power OFF, you open the front panel of the Braille printer, and use the **2nd switch** from right in the picture.



Switch on(up position), normal mode to firmware update mode.



normal  
mode

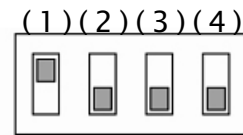


firmware  
update mode

## How to use Switches

You can use switch (from the left )as follows,

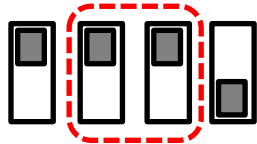
- (1) motor speed (printing speed)
- (2) auto acquisition of IP address (DHCP)
- (3) firmware update mode
- (4) ink counter clear



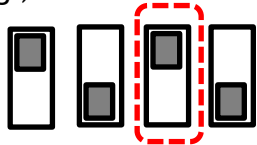
You need to use two switches,(2) and (3) for network setting. If you switch (2) on, it automatically receives IP address from DHCP server.

※If DHCP server is not working properly on LAN which is connected, you cannot receive IP address.

e.g.) Setting IP address with auto acquisition with DHCP



e.g.) Use the manually set IP address to set it.



※When you set network, you need to switch (3) on (up).

B) Turn on Braille printer


You hear a beep of "pipipi..."and it displays current firmware number on the front panel, 7 segments LED. It can only display one digit number, so it displays numbers continuously.



7 segments LED

For example, ver 1.0.2.0,  
7 segments display as follows,



After displaying a version, it displays this,  which indicates firmware update, and it means that Braille printer is on firmware update mode, and IP address setting mode.

\* As above, lifting the switch on and turning the Braille printer on,  
and still no 7 segment LED version display, you can't set the  
network (the equipment doesn't support network) .

\* In firmware update mode, you can't print processing or paper feed.

When you automatically acquire the IP address (DHCP) , after the  
firmware version, assigned IP address will be displayed (only single  
digit display, therefore, it appears consecutively )

e.g.) 192.168.1.5



(U is displayed in the end)

You need to remember the assigned IP address by DHCP when you set  
IP address with command (you must note the numbers which were  
displayed with the 7 segments LCD).

### 3. How to set IP address

There are two ways you can set IP address.

- (1) Connect (network)to Braille printer, then input command to set.
- (2) Use firmware update (IP address setting) tool.

#### 3.1. Connect to Braille printer, then input command to set

(1) Prepare to start TELNETClient

Start command prompt

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\user01>
```

※ You can't use talent client program after Windows7 OS. You go to [control panel] — [program] — [program and feature] and choose 「validation or invalidation of Windows' feature」 , then tick “Telnet client ” to activate it.

(2) Connect to Braille printer

e.g.) Connect to a printer of 192.168.100.126

item	setting value	feature
interface printer's IP address	192.168.100.126	Input the existing IP address or the assigned address by DHCP.
interface port number	9101	fixed value

Input the following command and press [Enter] key.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\user01>telnet 192.168.100.126 9101
```

When you connect to the Braille printer, you will see a following message.

```
Welcome Printer IP address setting
You can use command as follow
showip      : show current ip settings
set ipaddress [netmask] : setting ipaddress and netmask
save        : save setting to ROM
```

### (3) Input command

You can use the following commands in IP address setting of the Braille printer.

command	setting value	feature
showip	N/A	current setting value (set in the printer, or half way to be set) is displayed
set	ipaddress	specifys the IP address for setting
	netmask	Specifys the netmask for setting In the case of omitting netmask, it sets 255.255.255.0
save	N/A	Save half way setting (unsaved) content in the memory of the printer.

Input showip and press [Enter] key to show current setting value.

```
showip
current setting(rom) : 192.168.100.65/255.255.255.0
setting on memory   : 0.0.0.0/0.0.0.0
```

The content of the current setting(rom) is the same as the content of setting in the current Braille printer.

The content of the setting on memory is the content which in the middle of setting by set command.

(4) Set IP address and netmask

for example, set 192.168.100.66 / 255.255.255.0

```
set 192.168.100.66 255.255.255.0
OK
```

Input "set 192.168.100.66 255.255.255.0" and press [Enter] key.

When the setting is completed, it displays "OK".

(5) Save it in the printer

Input save and press [Enter] key.

```
save
200: Save done! Please reboot your device.
```

If you get reply of "200: Save done! Please reboot your device.", it is saved safely.

Check what you saved with showip command.

```
showip
current setting(rom) : 192.168.100.66/255.255.255.0
setting on memory   : 192.168.100.66/255.255.255.0
```

If the current setting(rom) is the same as setIP address, your setting is successfully complete.

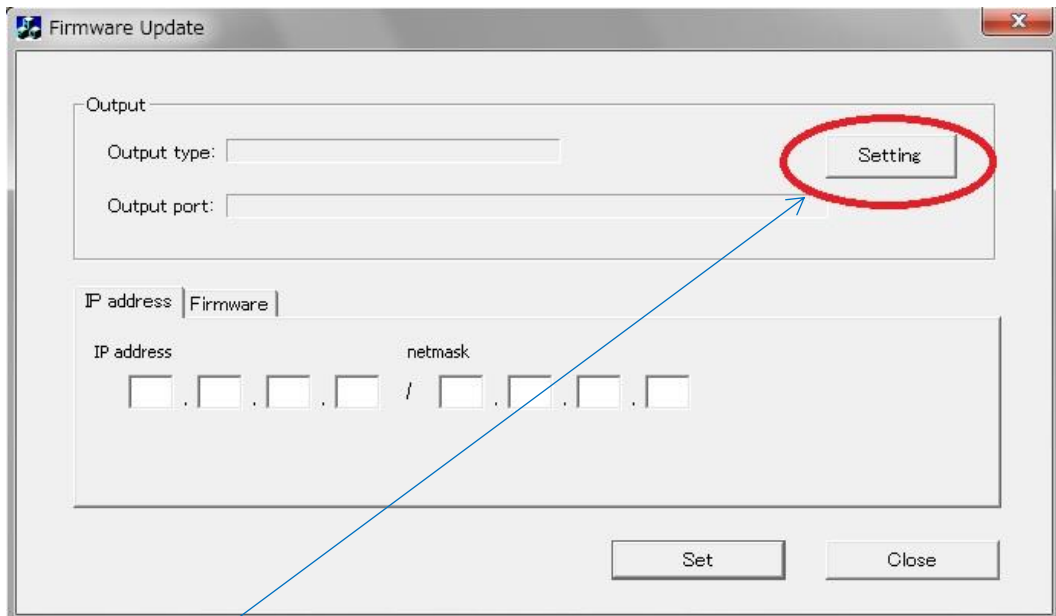
(6) Turn off the power, and set the switch of Braille printer to normal mode

Turn the power switch off, and then lower the firmware update mode switch (2nd from the right).

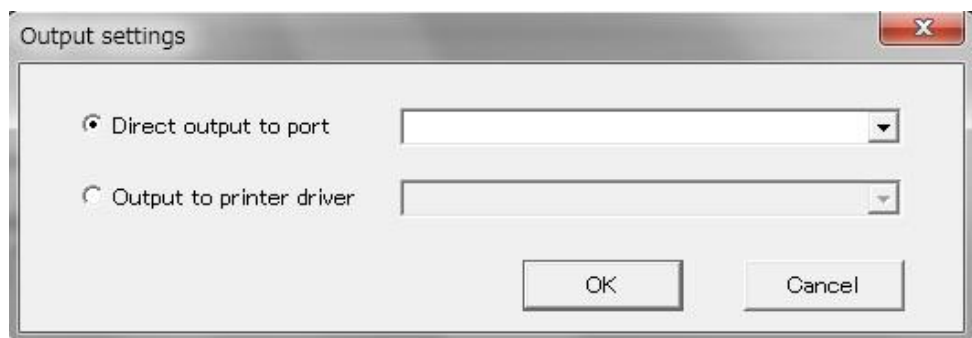


### 3.2. Firmware update (IP address setting) tool

(1) Start up Firmware update tool.



(2) Click [Setting] and choose where to output



\* Direct output to port

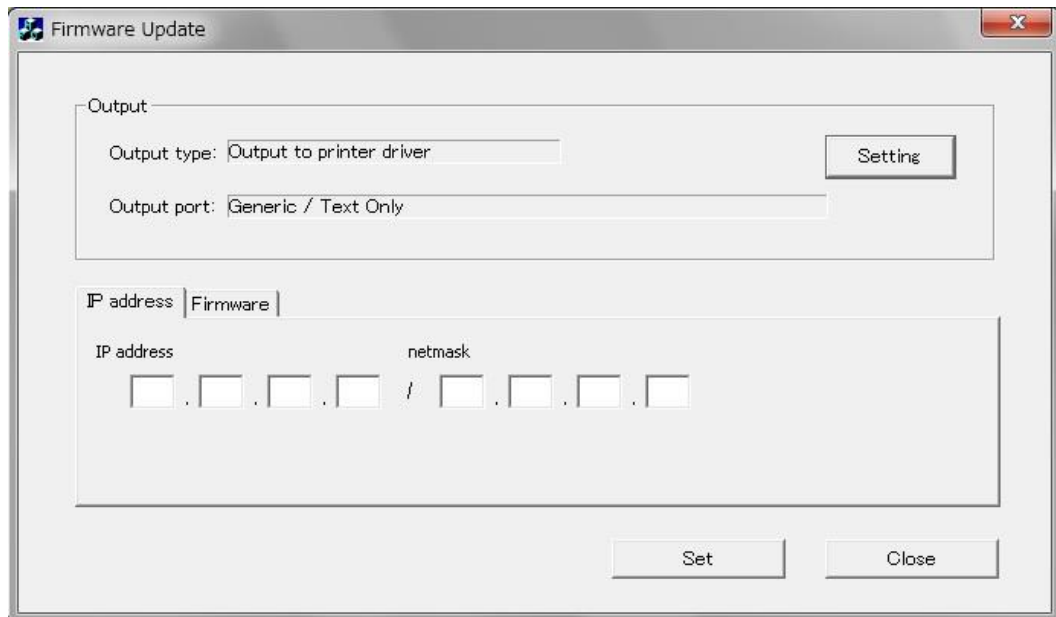
When you choose direct output to port, a list of output ports are displayed in the combo box.

e.g.) LPT1,COM1

\*Output to printer driver (recommended)

When you choose output to printer driver, a list of printer drivers displays in the combo box.

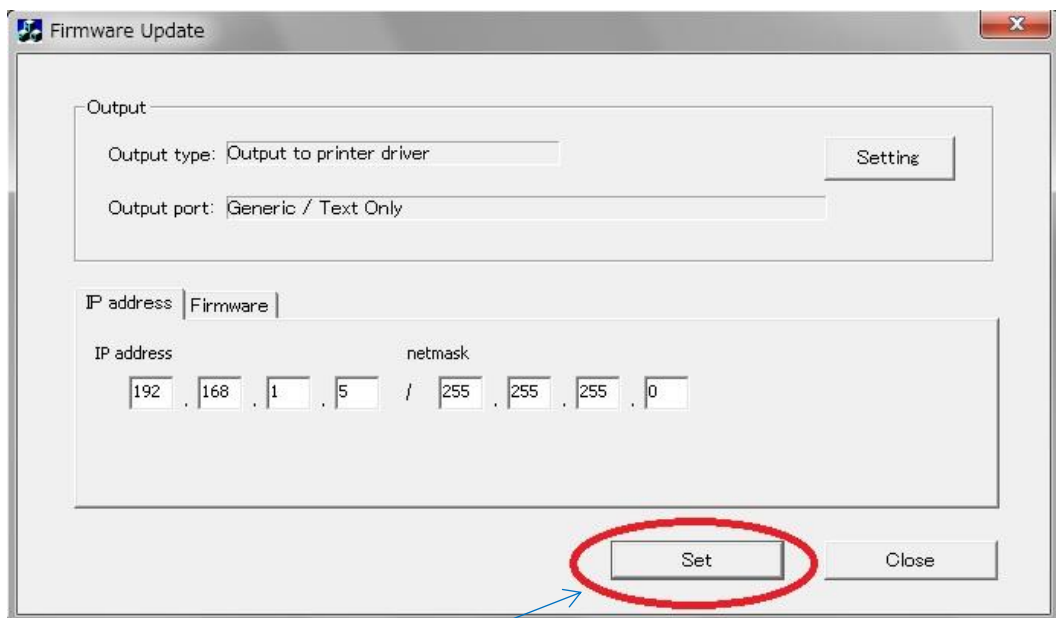
e.g.) Output to printer driver, choose, Generic / TextOnly



The screenshot shows the 'Firmware Update' dialog box. The 'Output' section is active, showing 'Output type' set to 'Output to printer driver' and 'Output port' set to 'Generic / Text Only'. There is a 'Setting' button next to the output port field. Below this, the 'IP address' and 'Firmware' tabs are visible. The 'IP address' tab is selected, showing fields for IP address and netmask, each with four input boxes separated by dots and a slash. At the bottom, there are 'Set' and 'Close' buttons.

(3) Input network address for setting IP address and netmask

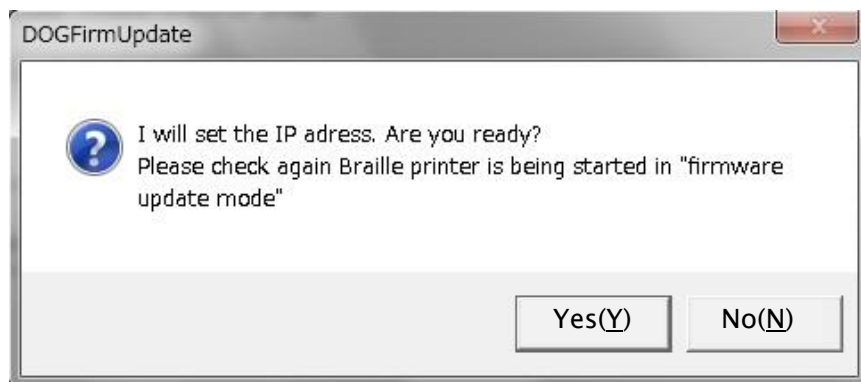
For example, if you set 192.168.1.5/255.255.255.0



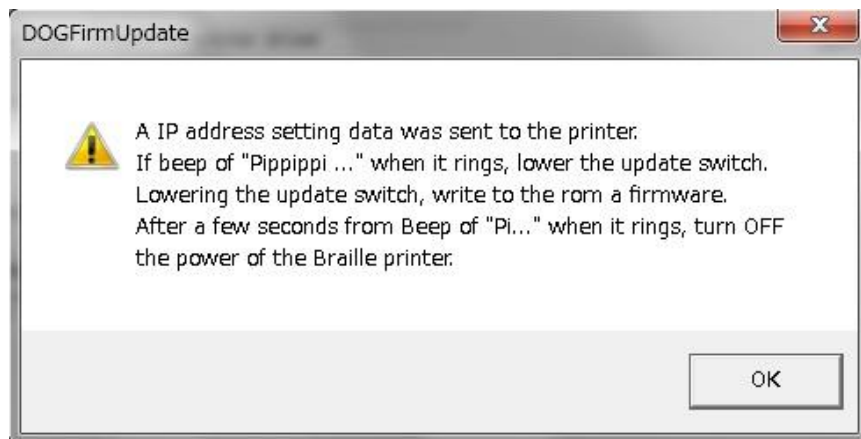
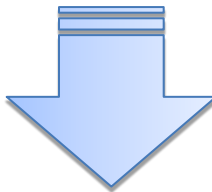
The screenshot shows the 'Firmware Update' dialog box with the 'IP address' and 'Firmware' tabs. The 'IP address' tab is selected, and the IP address field is filled with '192', '168', '1', and '5'. The netmask field is filled with '255', '255', '255', and '0'. A red circle highlights the 'Set' button, and a blue arrow points to it from below. The 'Close' button is also visible.

(4) Click [Set] and set IP address.


IP address setting confirmation message appears.



Check the Braille printer is ready, and select [Yes (Y) ]  
(Braille printer should be in firmware update mode)



When you choose output to printer driver, a printer spooler will send the firmware to the printer. Sending the data to the Braille printer will soon be completed.

(5) Braille printer's 7 segment displays  and rings "pipipip..." It means that the IP address setting data was sent to the Braille printer (before writing to the ROM) .

\* If you turn off the power now, the IP address setting process will be stopped.

(6) Lower the update switch, and write IP address setting information to the ROM.

When you hear a beep of "pi"....", you can turn the Braille printer off.

If you would like to have the firmware update( IP address setting) tool, you can download it from our website or contact us to inquire how to get it.

Nippon Telesoft Co., Ltd. website URL

<http://www.nippontelesoft.com/>