

Notes to Users

This manual describes the procedures and provides necessary information about printing using Bluetooth™.

Preparation

A minimum of 64MB memory is required to use this product. If there is not enough memory, install additional memory with the optional SDRAM module.

This unit supports the following profiles:

- SPP
- HCRP
- BIP (Some machines do not support BIP. For details, see the manual that comes with the machine.)

Reference

For more information about printing with SPP, see p.1 "Printing with Bluetooth™ Connection"

For more information about printing with HCRP or BIP, see the manual for each product.

For more information about the supported profiles, see the manual that comes with the Bluetooth™ adaptor.

Printing with Bluetooth™ Connection

Preparation

Make sure you install the printer driver using the same procedure as for the parallel interface installation. For more information about how to install the printer driver, see the manual that comes with the machine.

Confirm that the followings are true:

- The power switch is on.
- The Bluetooth™ card has been inserted into the machine and its light is blinking.

This machine is confirmed to work with computer which has following Bluetooth™ adaptor.

- 3Com PCMCIA Bluetooth™ adaptor Parts# 3CRWB6096
- 3Com USB Bluetooth™ adaptor Parts# 3CRWB96

Note

- In case of using other Bluetooth™ adaptor or computer, this machine is not guaranteed to print properly.
- The system requirements depend on each Bluetooth™ product. See the manual for each product for more details.
- For more information about how to set up Bluetooth™ under other operating systems or for use with different utilities, see the manuals for those operating systems or utilities.

1 Run 3Com Bluetooth Connection Manager.

2 Make sure the printer you want to use appears in the 3Com Bluetooth Connection Manager.

3 Click [COM port] on the [Tool] menu.

4 Make sure that the line "Bluetooth Serial Client (COMx)" appears under Client Ports. (x indicating the COM port number used by Bluetooth™).

- 5** Click **[Close]**.
- 6** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.
- 7** Click the icon of the printer you want to use.
- 8** On the **[File]** menu, click **[Properties]**.
- 9** Click the **[Ports]** tab.
- 10** Under **[Port]**, check **[COMx:]**. X is as same as checked step 4.
- 11** Click **[OK]**.

Close the **[Printers]** dialog box.

❖ **If a dialog box appears while transmitting a print job, reestablish the connection as follows:**

- ① Select the printer you want to use in the **[Softkey]** box.
- ② Click **[Connect]**.

 **Note**

- If you always use the same printer, check **[Always use for this connection]**.

 **Reference**

For more information, see the manual that comes with the Bluetooth™ adaptor.

Security Mode

1 Start 3Com Bluetooth Connection Manager.

2 Click **[Security Mode]** on the **[Tools]** menu.

The Security Mode dialog box appears.

3 Select the Security Mode from the **[Security Mode:]** drop-down list box.

If you select **[High]**, or if you select **[Custom]** and then specify **[Link]** in the **[Custom Settings]** dialog box, you will be asked to enter the Bluetooth™ password. (See ⇒ p.2 “Printing” for details on how to find out what the password is.) For all other Security Modes and Custom Settings, no password will be asked.

 **Note**

- For more information about each mode, see the user's manual for the utility.

4 Click **[OK]**.

Close the Security Mode dialog box.

Printing

1 Transmit the print job to the printer being used.

Depending on how your computer is set up, the **[Connect]** dialog box may appear. If it does, use it to establish a connection with the machine.

2 The **[Authentication]** dialog box appears.

3 Enter the Bluetooth™ password and click **[OK]**.

The Bluetooth™ password consists of the last four digits of the machine's serial number. You can find the serial number on the label on the back of the machine. For example, if the serial number is 00A0-001234, the Bluetooth™ password is 1234.

4 The print job is transmitted.

Note

- The Bluetooth™ password differs for each machine and cannot be changed.

Setting

To make setting for Bluetooth™, use the Web browser and telnet.

❖ **Operation Mode**

- **Public (Web browser) / public (telnet)**
You can establish the connection by searching for a Bluetooth™ adaptor or Bluetooth™-equipped computer.
- **Private (Web browser) / private (telnet)**
You can establish the connection when registering the machine with a utility. A Bluetooth™ adaptor or Bluetooth™-equipped computer that has not registered the machine cannot be searched for.

Reference

For details about registering the machine with a utility, see the manual that comes with the Bluetooth™ adaptor.

Limitation

- You can make settings when installing the optional Bluetooth™ Interface Unit.

Reference

For more information about how to use the Web browser and telnet, see the manual that comes with the machine.

Web browser

❖ **View settings**

The Bluetooth™ settings are displayed.

❖ **Mode settings**

You can set Bluetooth™ operation mode to either **[Private]** or **[Public]**.

Note

- The default is **[Public]**.

telnet

To make setting for Bluetooth™, use the `btconfig` command.

❖ **View settings**

The Bluetooth™ settings are displayed.

```
msh> btconfig
```

❖ **Mode settings**

You can set Bluetooth™ operation mode to either **[private]** or **[public]**.



```
msh> btconfig [private|public]
```

Note



- The default is **[public]**.

Trouble Shooting

Printer Does Not Print

Possible Cause	Solutions
<p>When you use the optional Bluetooth™ Interface Unit.</p>	<p>❖ SPP</p> <ol style="list-style-type: none">① Make sure the machine you want to use appears in the 3Com Bluetooth Connection Manager.② Make sure "Bluetooth Serial Client (COMx)" appears under Client Ports in the 3Com Bluetooth Connection Manager.③ Restart the computer and machine.④ Make sure no IEEE 802.11b (wireless LAN) or other Bluetooth™ devices are in use. <p> Note</p> <ul style="list-style-type: none">❑ Interference may occur with the IEEE 802.11b wireless LAN interface board. Such interference may affect the transmission speed and other functions. <ol style="list-style-type: none">⑤ Transmissions between the client computer and the machine can be blocked by obstructions. Move the machine or client computer if necessary. <p>❖ HCRP, BIP</p> <ol style="list-style-type: none">① Restart the computer and machine.② Make sure no IEEE 802.11b (wireless LAN) or other Bluetooth™ devices are in use. <p> Note</p> <ul style="list-style-type: none">❑ Interference may occur with the IEEE 802.11b wireless LAN interface board. Such interference may affect the transmission speed and other functions. <ol style="list-style-type: none">③ Transmissions between the client computer and the machine can be blocked by obstructions. Move the machine or client computer if necessary.

Other Printing Problems

Problem	Solutions
Printing is slow.	<p data-bbox="680 301 1207 363">When using the optional Bluetooth™ Interface Unit, do the following;</p> <ul data-bbox="680 372 1200 469" style="list-style-type: none"><li data-bbox="680 372 1008 401">• Transmit fewer print jobs.<li data-bbox="680 411 1200 469">• Make sure no IEEE 802.11b (wireless LAN) or other Bluetooth™ devices are in use. <p data-bbox="717 488 820 527"> Note</p> <ul data-bbox="717 537 1207 788" style="list-style-type: none"><li data-bbox="717 537 1207 653"><input type="checkbox"/> Interference may occur with the IEEE 802.11b wireless LAN interface board. Such interference may affect the transmission speed and other functions.<li data-bbox="680 662 1207 788">• Transmissions between the client computer and the machine can be blocked by obstructions. Move the machine or client computer if necessary. <p data-bbox="680 797 783 836"> Note</p> <ul data-bbox="680 846 1200 904" style="list-style-type: none"><li data-bbox="680 846 1200 904"><input type="checkbox"/> When you use a Bluetooth™ connection, print jobs are transmitted relatively slowly.

Bluetooth™ Specification

Supported Profiles	SPP (Serial Port Profile) HCRP (Hardcopy Cable Replacement Profile) BIP (Basic Imaging Profile)
Frequency Range	2GHz ISM band
Data Transmission Speed	732kbps *1
Maximum Range	10m

*1 The transmission speed is adjusted according to factors such as the distance and obstacles between the devices, radio signal condition and Bluetooth™ adaptor.



SPP and HCRP

- The maximum number of Bluetooth™ adaptor or Bluetooth™-equipped computers that can be connected at the same time by the Bluetooth™ interface is two, including one by SPP connection and one by HCRP connection.
- When connecting more than one Bluetooth™ adaptor or Bluetooth™-equipped computer at the same time, the first device which establishes the connection is selected. When selecting the connection between the other devices, you need to cancel the first established connection.
- Conditions for Bidirectional Communication
 - SPP connection does not support bidirectional communication.
 - HCRP connection supports bidirectional communication.



BIP

- For BIP connection, a module which includes PostScript 3 must be installed in the machine.
- Only one Bluetooth™ adaptor or Bluetooth™-equipped computer can be connected using BIP.
- The format that can be printed using BIP connection is JPEG.
- User code is disabled for BIP connection.
 - If the print function of the machine is set to limited, you cannot print.
- Some machines do not support BIP. For details, see the manual that comes with the machine.



Electric Emission Notice

"Bluetooth option from RICOH"

❖ **Federal Communications Commission (FCC) statement**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on the circuit different from that to which the receiver is connected.
- Consult and RICOH authorized dealer or service representative for help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from RICOH authorized dealers. RICOH is not responsible for any radio or television interference caused by changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Responsible party:
RICOH COMPANY, LTD.
15-5, Minami Aoyama 1-chome,
Minato-ku, Tokyo 107-8544, Japan
Phone: +81-(0)3-3479-3111

❖ **This device complies with RSS210 of Industry Canada.**

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of device.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transit antenna) that is installed outdoors is subject to licensing.

❖ Europe - CE Declaration of Conformity

Notice to Users in EEA Countries This product complies with the essential requirements and provisions of Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

The CE Declaration of Conformity is available on the Internet at URL:
http://www.ricoh.co.jp/fax/ce_doc/.



Notice

3Com is a trade mark of 3Com corporation.

Bluetooth is a Trademark of the Bluetooth SIG, Inc. (Special Interest Group) and licensed to RICOH company limited.

Copyright © 2001 Bluetooth SIG, Inc.

The Bluetooth Trademarks are owned by Bluetooth SIG, Inc. USA