

Class 1 / Class 2 Bluetooth V2.0 USB Adapter

BT-510U/BT-520U

User's Guide

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance. (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance 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.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

CE mark Warning

The is a class B device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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Revision

User's Manual for PLANET Class1/Class2 Bluetooth V2.0 USB Adapter: Model: BT-510U, BT-520U Rev: 1.0 (September, 2006) Part No. EM-BT510U

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Chapter1 Introduction

The BT-510U/520U is designed to connect USB port of a desktop or laptop PC, and allows the computer to build a short-range wireless connection to other Bluetooth devices like cellular phones, PDAs, and computers. Since the transmission medium of BT-510U/520U is air, PLANET also enhances both connection protection and data security mechanism to the product which helps people share and access trigger information. Compliant with Bluetooth specification Version 2.0 + EDR, BT-510U/520U can provide transfer rate up to 3Mbps, which is higher than Bluetooth v1.2 device.

The BT-510U/520U provides services of virtual serial port, dial-up networking, fax, file transfer, information exchange, information synchronization, and network access. With powerful bundled software, it's not difficult to implement configuration and management even there are so many functions. Most popular operating system support, including Windows 98SE, ME, 2000, XP and Server 2003, makes the application of BT-510U/520U more flexible.

Link your notebook with your handheld, mobile phone, printer, audio gateway and other Bluetooth devices within your personal area network (PAN) via a secure short-range wireless radio link. Get rid of all those hassle cables and automatically share documents, browse the Internet and synchronize calendars, address books and more.

1.1 Features

- Compatible with Bluetooth Core Specification Version 2.0 + EDR (Enhanced Data Rate)
- > Bluetooth Manager Utility eases the difficulties of configuration and management
- Date rate up to 3Mbps
- Lower power consumption through reduced duty cycle
- Simplification of multi-link scenarios due to more available bandwidth
- Backwards compatible to Bluetooth V1.1/V1.2 specifications
- > Further improved BER (Bit Error Rate) performance
- Connection protection and data security enhanced mechanism
- > Up to 8 devices Point-to-MultiPoint topology expands your PAN coverage
- Various services provided: Virtual Serial Port, Dial-up Networking, Fax, File Transfer, Information Exchange, Information Synchronization, and Network Access
- > Multilingual support in Bluetooth utility
- Most popular OS support: Windows 98SE/Me/2000/XP and Server 2003
- BT-510U has suppor Bluetooth Class 1, it can provide bigger cover area for user to connect their Bluetooth device longer

1.2 Packet Content

The following items should be included:

- 1 * Bluetooth V2.0 USB Adapter
- 1 * CD-ROM (includes Driver, Utility, Manual)
- 1 * Quick Installation Guide

If any of the above items are damaged or missing, please contact your dealer immediately.

1.3 Supported profiles

Windows 98SE/ME

This Bluetooth Stack for Windows supports the following profiles. Please note that profiles HSP, PAN, BIP, A2DP, AVRCP and GAVDP are supported by Windows XP and Windows 2000 only.

(a) DUN

(b) FAX

(c) LAP

(d) SPP

(e) HID

(f) HCRP

(g) FTP

(h) OPP

Windows 2000/XP

(a) DUN
(b) FAX
(c) LAP
(d) SPP
(e) HID
(f) HCRP
(g) FTP
(h) OPP
(i) HSP
(j) PAN

(k) BIP (I) A2DP (m) AVRCP

(n) GAVDP

1.4 Supported languages

The Bluetooth Stack for Windows supports the following languages.

English Danish French German Italian Japanese Norwegian Spanish Swedish

The following languages are supported by Windows 2000/XP and Windows Server 2003 only.

Dutch Korean Simplified Chinese Traditional Chinese Russian Finnish Portuguese (Brazil)

1.5 Supported operating systems

The Bluetooth Stack for Windows supports the following operating systems.

Windows 98 Second Edition Windows ME Windows 2000 Professional (Service Pack 3 or above) Windows XP Professional (Service Pack 1 or above) Windows XP Home (Service Pack 1 or above) Windows XP Tablet PC Edition Windows XP Media Center Edition Windows Server 2003

1.6 Limitations

(a) External Bluetooth drivers cannot be "signed drivers" to receive Microsoft WHQL logo. Therefore, Microsoft's "Unsigned driver" warning messages may pop up during the software installation, Bluetooth headset, mouse or keyboard setup. Please install the drivers and then follow the on-screen instructions.

(b) On Swedish Windows XP, an error message (error code = 633) may be seen during dial-up. Please update the operating system to Windows XP Service Pack 2 or refer to Microsoft knowledge base #831717.

(c) Windows XP fast user switch is not supported. When switching to another user, the Bluetooth Manager is not launched. Please log off before switching to another user.

(d) If "automatic FAX receiving" is enabled on Microsoft FAX manager, and if DUN, FAX, or LAP profile icon is registered on Bluetooth Settings, and then Bluetooth's "resume from standby" may take a couple of minutes to turn on.

(e) Windows 98 Second Edition: If the "Install New Modem" dialog pops up when setting up a Bluetooth modem, mobile phone, or access point, please choose "Don't detect my

modem; I will select from a list". Otherwise, the system may freeze during the modem detection. If the manual for your Bluetooth device does not specify a modem driver, then please select "Standard 33600bps modem".

(f) Before connecting or disconnecting a Bluetooth headset, please exit any voice or sound-related applications (e.g. Windows Messenger, Windows Media Player). The audio input and output may not be switched properly if those applications are running. This same precaution is important prior to system standby, hibernate or shutdown, and prior to turning off or unpluging the primary Bluetooth device.

2

Chapter 2 Setup for Windows 98SE/ME/2000/XP/2003

Installing Bluetooth software for Windows

- 1. Insert the Drivers and User's Manual CD into CD-ROM drive to initiate the autorun program. Once completed, a menu screen will appear.
- 2. Install the Bluetooth software by click the "**Bluetooth Software**" hyperlink of the menu screen to activate the installation for the application program.

If the menu screen doesn't appear, please start the installation as follows.

- Click "Start" button.
- Click "Run".
- Enter "E:\Utility\setup.exe" to the appeared dialog box, suppose "E" is your CD-ROM drive.

Click on "**OK**" button.

3. When the License Agreement screen is displayed, read the License Agreement, then click the radio button to the left of "I accept" and then click the "Next" button.

🗒 PLANET BT-510U/520U Adapter - InstallShield Wizard	X
License Agreement Please read the following license agreement carefully.	3
TOSHIBA CORPORATION	-
End User License Agreement	
This End User License Agreement ("EULA") is a legal agreement between you and TOSHIBA CORPORATION ("TOSHIBA") with regard to the copyrighted Software provided with this EULA.	~
I accept the terms in the license agreement I do not accept the terms in the license agreement	
InstallShield Cancel	

4. During the installation, the system will try to detect your Bluetooth device, please plug-in your Bluetooth device and then click on the "**OK**".



5. When the installation is completed, please click on the "Yes" to restart your system.

🕏 PLANET BT-510U/520U Adapter Installer Inform 🔯			
⚠	You must restart your system for the configuration changes made to PLANET BT-510U/520U Adapter to take effect. Click Yes to restart now or No if you plan to restart later.		
	<u>Y</u> es <u>N</u> o		

3

Chapter 3 Basic setting

Methods for registering new devices using the Bluetooth Utility shall now be described. A Bluetooth mouse shall be connected and set up using [Bluetooth Settings] as an example.

[Bluetooth Settings] provides two set-up methods: "Express Mode" and "Custom Mode."

• Express Mode

[Bluetooth Settings] will automatically detect and register services. If several services (profiles) are supported by the device the service that has been set to the highest priority shall be selected and registered.

Express Mode is normally recommended for device set-up.

Custom Mode

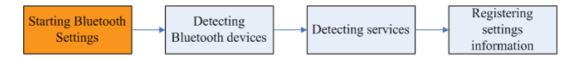
After having been detected, the services supported by the device are displayed as a list, from which you can select the desired function(s).

Custom Mode must be used to set up a device if, for example, you wish to use a modem station to send a fax (because in Express Mode, the DUN profile will be automatically selected since it has a higher priority than the FAX profile).

The differences between setting up the same device (a Bluetooth mouse) using Express Mode and Custom Mode are described on the following pages.

3.1 Express Mode Set-up

3.1.1 Starting Bluetooth Settings



Click [Start]→[All Programs]→[Bluetooth]

Note

. The same result can be achieved by right-clicking on the Bluetooth icon in the task tray and selecting [Bluetooth Settings] from the menu that appears.

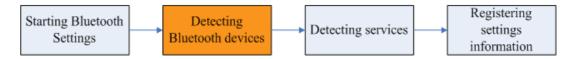
Bluetooth Settings Wireless File Transfer Remote Camera Add New Connection	
Device Properties and Security Service Properties	
Help Exit	- dealer file
	🔁 🕖 🧶 💽 - 5:33 PM -

The [Bluetooth Settings] window below will appear when other devices have already been registered.

Bluete	ooth S	ettings	
Bluetooth	⊻jew	Help	
			Bluetooth'
		(((
	Ne Co	wnnection	Detail 🗶 Delete

Please click the [New Connection] button to open the [Add New Connection Wizard] window. If no devices have been registered yet, please proceed directly to "Detecting Bluetooth Devices."

3.1.2 Detecting Bluetooth devices



The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

1. Switch the device power ON to make it connectable via Bluetooth.

2. Confirm that [Express Mode] has been selected in the [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window, and click on the [Next] button.

Add New Connection Wizard 🛛 🛛 🔀			
This wizard will create the settings for Bluetooth device connection.			
	Please ensure your Bluetooth devices are on and set to discoverable.		
	⊙Express Mode (Recommended)		
	◯ <u>C</u> ustom Mode		
	This allows you to set the details for the connection.		
	< <u>Back</u> Next > Cancel		

Searching for Bluetooth devices will start.

Add New Connection Wizard		
Searching for Bluetooth devices.		
	Searching for Bluetooth devices.	
	< Back Next > Cancel	

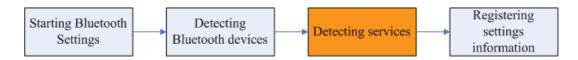
When the device has been detected, the name and address of the device will appear in the [Add New Connection Wizard (Select Device)] window.

Add New Connection Wizard		
Select a device	Please choose the Bluetooth device you wish to use.	
	Device Name YOUR-C1B85115D4 ENM-10 Bluetooth Mouse TONY_CHANG	
	< <u>B</u> ack <u>N</u> ext > Cancel	

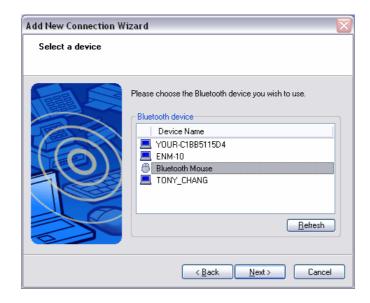
. If no device is found, please confirm that the device has been made connectable via Bluetooth, and click on the [Update] button.

. A further device search will be performed.

3.1.3 Detecting services



1. Select the device name from [Device List] and click on the [Next] button.



Bluetooth device detection will commence.



. If several services (profiles) are supported by the device, the service that has been set to the highest priority shall be automatically selected and set up in Express Mode. Please use Custom Mode if you wish to select desired services manually.

. When a service has been detected, a window prompting you to enter the Bluetooth passkey (PIN code) may appear. Please enter the passkey and click on the [OK] button.

Bluetooth Mana	ger - Bluetooth Security	,
A	Bluetooth Passkey (PIN): (If left blank, the default F Request Device Bluetooth Device Address: Bluetooth Device Name:	PIN will be used.) 00:30:4F:C1:4B:63 Bluetooth Mouse
		OK Cancel

. If you have not entered your Bluetooth passkey after a certain amount of time has passed, the connection process will be cancelled for security reasons. Please perform the passkey entry process again.

A message will appear prompting you to prepare the device for connection.

2. Click on the [OK] button.

Bluetooth Settings	
(į)	Prepare to connect to the remote HID device, then click OK.
	ок

. When the settings information has been registered, a window prompting you to enter your Bluetooth passkey (PIN code) may appear. Please enter your passkey and click on the [OK] button.

Bluetooth Man	ager - Bluetooth Security	
-	Bluetooth Passkey (PIN): (If left blank, the default f	PIN will be used.)
	Bluetooth Device Address: Bluetooth Device Name:	00:30:4F:C1:4B:63 Bluetooth Mouse
		OK Cancel

. If you have not entered your Bluetooth passkey after a certain amount of time has passed, the connection process will be cancelled for security reasons. Please perform the passkey entry process again.

The [Add New Connection Wizard (Connection Name Setup)] window will appear if a service has been properly detected.

3. Select the type and name of the icon to be displayed once the device has been registered, and click on the [Next] button.

Add New Connection Wizard 🛛 🛛 🔀		
Enter a name and sele	ect an icon.	
	Set up the connection name and icon.	
	Setting information Connection Name: Bluetooth Mouse Icon Change Icons	
	< <u>B</u> ack <u>N</u> ext > Cancel	

. If you wish to change the icon, please click on the [Change Icon] button and select your preferred icon from the list that appears.



3.1.4 Registering settings information Starting Bluetooth Detecting Settings Detecting Bluetooth devices Detecting services

The [Add New Connection Wizard (Completing the Add New Connection Wizard)] window will appear.

1. Click on the [Finish] button

Add New Connection Wizard 🛛 🛛 🔀		
Completing the Add New Connection Wizard		
	Registration of connection information complete.	
	< <u>B</u> ack Finish Cancel	

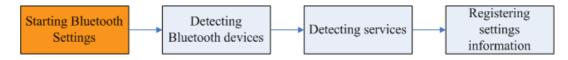
The [Bluetooth Settings] window will appear.

The icons of the registered devices will appear, and the devices will be ready to use.



3.2 Custom Mode Set-up

3.2.1 Starting Bluetooth Settings



1. Click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings].

(Under Windows 2000, click [Start] \rightarrow [Programs] \rightarrow [Bluetooth] \rightarrow [Bluetooth Settings].)

Note

. The same result can be achieved by right-clicking on the Bluetooth icon in the task tray and selecting [Bluetooth Settings] from the menu that appears.

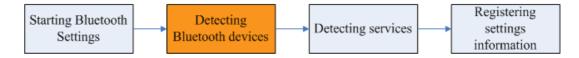


The [Bluetooth Settings] window below will appear when other devices have already been registered.

Bluet	ooth S	ettings	
Bluetooth	⊻iew	Help	
V			8 Bluetooth
))
l l	Ne Co	nection	Detail] 🗙 Delete

Please click the [New Connection] button to open the [Add New Connection Wizard] window. If no devices have been registered yet, please proceed directly to "Detecting Bluetooth Devices."

3.2.2 Detecting Bluetooth devices



The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

- 1. Switch the device power ON to make it connectable via Bluetooth.
- 2. Confirm that [Custom Mode] has been selected in the [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window, and click on the [Next] button.

Add New Connection Wizard		
This wizard will create the settings for Bluetooth device connection.		
	Please ensure your Bluetooth devices are on and set to discoverable.	
	Express Mode (Recommended)	
	 Custom Mode This allows you to set the details for the connection. 	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Searching for Bluetooth devices will start.

Add New Connection Wizard		
Searching for Bluetooth devices.		
	Searching for Bluetooth devices.	
	< <u>B</u> ack <u>N</u> ext > Cancel	

When the device has been detected, the name and address of the device will appear in the [Add New Connection Wizard (Select Device)] window.

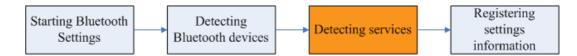
Add New Connection Wizard 🛛 🛛 🔀		
Select a device		
	Please choose the Bluetooth device you wish to use. Bluetooth device Device Name YOUR-CIBB5115D4 ENM-10 Bluetooth Mouse TONY_CHANG Eefresh	
	< <u>₿</u> ack Next > Cancel	

Note

. If no device is found, please confirm that the device has been made connectable via Bluetooth, and click on the [Update] button.

. A further device search will be performed.

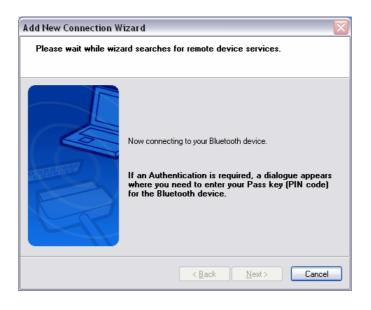
3.2.3 Detecting services



1. Select the device name from [Device List] and click on the [Next] button.

Add New Connection Wizard 🛛 🛛 🔯		
Select a device		
	Please choose the Bluetooth device you wish to use. Bluetooth device Device Name YOUR-C1885115D4 ENM-10 Bluetooth Mouse TONY_CHANG Refresh	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Bluetooth device detection will commence.



Note

. When a service has been detected, a window prompting you to enter the Bluetooth passkey (PIN code) may appear. Please enter the passkey and click on the [OK] button.

Bluetooth Ma	nager - Bluetooth Security	
-2	Bluetooth Passkey (PIN): (If left blank, the default f	PIN will be used.)
	Bluetooth Device Address: Bluetooth Device Name:	00:30:4F:C1:4B:63 Bluetooth Mouse
		OK Cancel

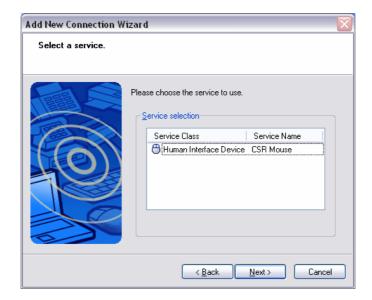
. If you have not entered your Bluetooth passkey after a certain amount of time has passed, the connection process will be cancelled for security reasons. Please perform the passkey entry process again.

. If you try to register a device that has already been registered, the following message will appear, and you will not be able to proceed with further operation. Please click on the [OK] button to close the message.

Bluetooth Settings 🛛 🛛 🔀	
⚠	This HID device is already registered.
	ОК

The services supported by the device will be displayed.

2. Select the desired service and click on the [Next] button.



Note

. When a device supports several services

If the device supports several services, you can use Custom Mode to manually select the services (profiles) you wish to use from the list that appears under

[Select Services].

Example: List of another computer's services

Service Class	Service Name
📲 Group Ad-hoc Network	Group Network Ser.
🛱 Serial Port	COM7
🖓 Audio Sink	Audio Sink

If Express Mode is used to perform the set-up, the highest-priority service in the device will be automatically selected and configured.

3. Click on the [OK] button.

Bluetooth Settings		
(į)	Prepare to connect to the remote HID device, then click OK.	
	ОК	

Note

. When the settings information has been registered, a window prompting you to enter your Bluetooth passkey (PIN code) may appear. Please enter your passkey and click on the [OK] button.

Bluetooth Ma	nager - Bluetooth Security	
-2	Bluetooth Passkey (PIN): (If left blank, the default f Request Device	PIN will be used.)
	Bluetooth Device Address: Bluetooth Device Name:	00:30:4F:C1:4B:63 Bluetooth Mouse
		OK Cancel

. If you have not entered your Bluetooth passkey after a certain amount of time has passed, the connection process will be cancelled for security reasons. Please perform the passkey entry process again.

The [Add New Connection Wizard (Connection Name Setup)] window will appear if a service has been properly detected.

4. Select the type and name of the icon to be displayed once the device has been registered, and click on the [Next] button.

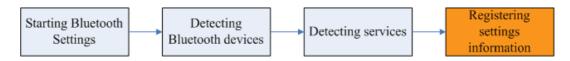
Add New Connection Wiz	zard 🛛 🔀
Enter a name and selec	st an icon.
	Set up the connection name and icon.
	Setting information
	Bluetooth Mouse
	lcon
	Change <u>I</u> cons
	Create a shortcut on the desktop
	< <u>B</u> ack <u>N</u> ext> Cancel

Note

. If you wish to change the icon, please click on the [Change Icon] button and select your preferred icon from the list that appears.

Change Icons	X
₩₽	
=== ±= = = → () U	
🚣 🛱 🚍 İ 🛧 🌶	
i 🗖 💻 🚍 🖶 🌞 🛄	
	>
OK Cance	

3.2.4 Registering settings information



The [Add New Connection Wizard (Completing the Add New Connection Wizard)] window will appear.

1. Click on the [Finish] button

Add New Connection Wiz	ard 🛛 🛛
Completing the Add New	v Connection Wizard
	Registration of connection information complete.
	< Back Finish Cancel

The [Bluetooth Settings] window will appear.

The icons of the registered devices will appear, and the devices will be ready to use.



4

Chapter 4 Making the most of your Bluetooth device

4.1 Connecting to the internet

4.1.1 Connecting to the internet using a modem station

Setting up the modem station

- 1. Turn on the wireless modem station.
- 2. Right-click the Bluetooth icon in the task tray, and then click on [Add New Connection].



Note

. Alternatively, click [Start] \rightarrow [All Programs] \rightarrow [Bluetooth] \rightarrow [Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button.



The [Add New Connection Wizard (Searching for Bluetooth devices)] window will appear.

dd New Connection Searching for Bluet	
0	Searching for Bluetooth devices.
	K Back Next > Cancel

4. Select the device name of the wireless modem station from [Device List], and then click on the [Next] button.

Add New Connection Select a device	i mzaru
	Please choose the Bluetooth device you wish to use. Bluetooth device Device Name BT Modem PC-1 PocketPC Bluetooth Printer Refresh
	< <u>B</u> ack <u>N</u> ext > Cancel

The [Add New Connection Wizard (Searching for Services)] window will appear.



Once a service has been detected successfully, connection to the device and COM port creation will be performed automatically, after which the [Add New Connection Wizard (Modem Settings)] window will appear.

5. If you are connecting to a wireless modem station for the first time, enter the passkey for the modem station under [Bluetooth Passkey (PIN code)], and then click on the [OK] button.

Bluetooth Man	ager - Bluetooth Security	
A	Bluetooth Passkey (PIN): (If left blank, the default F <u>Request Device</u>	PIN will be used.)
	Bluetooth Device Address: Bluetooth Device Name:	00:30:4F:00:01:02 BT-Modem
		OK Cancel

Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

6. Click on the [Next] button.

Add New Connection V	/izard 🛛 🔀
Advanced Modem Se	ttings
	Please click the "Advanced Modern Settings" button for further configuration options (e.g. for HSCSD or GPRS) or click "Next" to continue.
	<u>≺B</u> ack <u>N</u> ext > Cancel

Certain modems require you to configure initialization commands separately. Please click on the [Additional initialization Command Settings] button, enter the initialization commands in the following window, and then click on the [OK] button.

Note

. Please refer to the modem or mobile phone instruction manual for further detail or mobile phone instruction manual for further details on initialization commands.

dvanced Modem Setting	gs 💈
	mmands for the installed modern. This connections, e.g. GPRS and HSCSD.
	of your provider and your mobile phone tings. These settings will vary between irs and providers.
Examples: GPRS: +CGDCONT=1,"IP"/ HSCSD: +CBST=81,0,1;+CH	
Extra initialization commands:	
	OK Cancel

7. Enter the connection name (optional), telephone number (of your provider's access point), user name and password (as issued by your provider), and then click on the [Finish] button.

Create dial-up conn	ection	
1	Please give the dial-up con number, and if required, a u	nection a name, telephone iser name and password.
K	Dial-up connection name:	London A
	Telephone number:	0207 987 6543
Hoge	User name:	rgoody99
- 1880	Password:	•••••
	Confirm password:	•••••
	🗹 Set as Default Dial-up	

Important

. The sample entries shown in the window are provided solely for purpose of explanation. Please use your own telephone number, ID and password according to the arrangement with your provider.

The settings will be registered, and an icon will appear in the [Bluetooth Settings] window.



Connecting to the Internet

1. Start your browser, e-mail application or other application

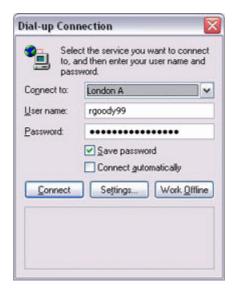
Important

. Please enter the e-mail settings separately if you are going to use e-mail (the set-up method will vary with the application).

2. Enter the URL of the Web page you wish to display and then press the [Enter] key, or use the e-mail tool to send/receive items or perform other activities.

The [Dial-up Connection] window will appear.

3. Click on the [Connect] button



Important

. A connection will be automatically established with the modem station if COM Auto Connect is available. If COM Auto Connect is not available, please manually connect to the modem station.

The following message will appear once you have connected to the Internet.



4. End the connection

The window below will appear if you double-click on the sicon in the task bar.

Connection Status: Connec Duration: 00:01 Speed: 115.2 K	
Duration: 00:01	
	:06
Speed: 115.2 K	
- 00 	bps
Bytes: 7,177 35,	382
Compression: 0 %	0%
Errors: 0	0

Please click on the [Disconnect] button when you want to disconnect from the Internet. Alternatively, please right-click on the sicon, and then click on [Disconnect].

Disconr	nect
Statu	5
Open N	letwork Connec

Note

. You can start an application to make an automatic connection to the Internet, but you can also make a manual connection using the connection destination icon. The procedure is described below.

1. From the [Bluetooth Settings] window, right-click on the connection destination icon, and then click on [Connect] from the menu that appears.

		() Blueton
- 	i sa mar	
Londor		
	Connect Disconnect	
	Delete	
	Detail	
	Create Shortcut on Desktop Rename Change Icons	X Delete

A window indicating that the connection is being established will appear.

h Settings			_ 0	X
w Help				
			Blueto	oth
- -		<u></u>	2	
Settings				
Now connect	ny, riedse	Wdk		
			2 1	
New Connection		Detail	X Delete	
	Settings Now connection	Settings Now connecting. Please	Now connecting. Please wait	Settings Now connecting. Please wait

If the connection has been established successfully, the connection icon and task tray will appear as shown below.



You will be able to browse Web pages using your browser and send and receive e-mail.

Important

. Please enter the e-mail settings separately if you are going to use e-mail (the set-up method will vary with the application).

2. End the connection

Right-click on the icon, and then click [Disconnect] to end the connection.

/		🕃 Blue
ī.	11	
London	Connect	
	Disconnect	
	Delete	
	Detail	
	Create Shortcut on Desktop Rename Change Icons	
inon	New Connection	Delete

The following message will appear. Click on the [Yes] button.

Bluetooth Settings					
2	London A cannot be used if disconnected. Are you sure you want to disconnect?				
	Yes	No			

When the icon appears as shown below, the connection will have ended.



4.1.2 Connecting to the internet using a mobile telephone Important

. In order to connect to the Internet, you must have already signed up with a provider and obtained a connection ID and password. Please ensure you have confirmed the ID, password and telephone number of your provider's access point before you begin the set-up process.

. A Bluetooth passkey (PIN code) is required for you to connect to the mobile telephone. Please make a note of your Bluetooth passkey before you start the set-up process.

Configuring a mobile telephone for use a modem

- 1. Turn on the mobile phone, and set it to be connectable via Bluetooth.
- 2. Right-click the Bluetooth icon in the task tray, and then click on [Add New Connection].



Note

. Alternatively, click [Start] \rightarrow [All Programs] \rightarrow [Bluetooth] \rightarrow [Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button.



The [Add New Connection Wizard (Searching for Bluetooth devices)] window will appear.

Add New Connection Searching for Blue	
	Searching for Bluetooth devices.
	< Back Next > Cancel

4. Select the device name of the mobile telephone from [Device List], and then click on the [Next] button.

Add New Connection Select a device	n Wizar d 🛛 📓
	Please choose the Bluetooth device you wish to use. Bluetooth device Device Name BT Modem PC-1 PocketPC Bluetooth Printer <u>Refresh</u>
	<back next=""> Cancel</back>

The [Add New Connection Wizard (Searching for Services)] window will appear.



Once a service has been detected successfully, connection to the device and COM port creation will be performed automatically, after which the [Add New Connection Wizard (Modem Settings)] window will appear.

5. If you are connecting to a mobile telephone for the first time, enter the passkey for the wireless modem station under [Bluetooth Passkey (PIN code)], and then click on the [OK] button.

			_
	Bluetooth Passkey (PIN):		
2	(If left blank, the default F	PIN will be used.)	
	Bluetooth Device Address:	00:30:4F:00:01:02	
	Bluetooth Device Name:	BT-Modem	
		OK Cancel	

Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

6. Click on the [Next] button.



Certain modems require you to configure initialization commands separately. Please click on the [Additional initialization Command Settings] button, enter the initialization commands in the following window, and then click on the [OK] button.

ngs
ommands for the installed modem. This connections, e.g. GPRS and HSCSD.
e of your provider and your mobile phone ttings. These settings will vary between lors and providers.
,"apn.provider.de" HSN-4,0,0,0
8:

7. Enter the connection name (optional), telephone number (of your provider's access point), user name and password (as issued by your provider), and then click on the [Finish] button.

Create dial-up co	nnection	
1	Please give the dial-up con number, and if required, a u	
Kan be	Dial-up connection name:	London A
	Telephone number:	0207 987 6543
1000	User name:	rgoody99
- 1000 2000	Password:	•••••
	Confirm password:	•••••
	Set as Default Dial-up	

Important

. The sample entries shown in the window are provided solely for purpose of explanation. Please use your own telephone number, ID and password according to the arrangement with your provider.

The settings will be registered, and an icon will appear in the [Bluetooth Settings] window.



Connecting to the Internet

1. Start your browser, e-mail application or other application

Important

. Please enter the e-mail settings separately if you are going to use e-mail (the set-up method will vary with the application).

2. Enter the URL of the Web page you wish to display and then press the [Enter] key, or use the e-mail tool to send/receive items or perform other activities.

The [Dial-up Connection] window will appear.

3. Click on the [Connect] button

🛄 to, a	ect the service you want to connect and then enter your user name and sword.	
Connect to:	London A	
User name:	rgoody99	
Password:	•••••	
	Save password	
Connect	Settings Work Offline	

Important

. A connection will be automatically established with the modem station if COM Auto Connect is available. If COM Auto Connect is not available, please manually connect to the mobile telephone .

The following message will appear once you have connected to the Internet.

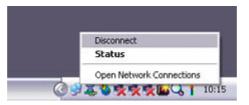


4. End the connection

The window below will appear if you double-click on the sicon in the task bar.

neral Details		
Connection		
Status:		Connected
Duration:		00:01:06
Speed:		115.2 Kbps
Activity Se	ent — 🚮	- Received
Bytes:	7,177	35,382
Compression:	0%	0%
Errors:	0	0
Properties Disco	nnect	

Please click on the [Disconnect] button when you want to disconnect from the Internet. Alternatively, please right-click on the sicon, and then click on [Disconnect].



Note

. You can start an application to make an automatic connection to the Internet, but you can also make a manual connection using the connection destination icon. The procedure is described below.

1. From the [Bluetooth Settings] window, right-click on the connection destination icon, and then click on [Connect] from the menu that appears.

Bluetooth	and the second	Bluetooth
	77. 55	
London	A Connect Disconnect	
	Delete Detail	
	Create Shortcut on Desktop Rename Change Icons	X Delete
	Véw Connection	- Conoco

A window indicating that the connection is being established will appear.

Bluetooth View Help	
3 Bluetoot	12 A
	ш.
Construction of the second sec	
Bluetooth Settings	
Now connecting. Please wait	
	T
New Connection	

If the connection has been established successfully, the connection icon and task tray will appear as shown below.



You will be able to browse Web pages using your browser and send and receive e-mail.

Important

. Please enter the e-mail settings separately if you are going to use e-mail (the set-up method will vary with the application).

2. End the connection

Right-click on the icon, and then click [Disconnect] to end the connection.

/		🕃 Blue
ī.	11	
Londo	Connect	
	Disconnect	
	Delete	
	Detail	
	Create Shortcut on Desktop Rename Change Icons	
inon	New Connection	Delete

The following message will appear. Click on the [Yes] button.

Bluetoo	th Settings	X	
2	London A cannot be used if disconnecte Are you sure you want to disconnect?		
	Yes	No	

When the icon appears as shown below, the connection will have ended.



4.2 Connecting to a network[LAN]

4.2.1 Connecting to a LAN using an access point[LAP]

Setting up the access point

Important

. The access point must have been started and a normal connection already established to the network before the access point is set up. Please refer to the access point instruction manual for information on how to set up the access point.

. A Bluetooth passkey (PIN code) is required for you to connect to the access point. Please make a note of your Bluetooth passkey before you start the set-up process.

- 1. Turn on the access point, and confirm that a connection has been established with the network.
- 2. Right-click the Bluetooth icon in the task tray, and then click on [Add New Connection].



Note

. Alternatively, click [Start] \rightarrow [All Programs] \rightarrow [Bluetooth] \rightarrow [Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button.



The [Add New Connection Wizard (Searching for Bluetooth devices)] window will appear.

dd New Connection Searching for Bluet	
	Searching for Bluetooth devices.
	K Back Next > Cancel

4. Select the device name of the access point from [Device List], and then click on the [Next] button.

dd New Connection Select a device	n Wizard		2
	Please choose the Blue Bluetooth device addr Device list	tooth device you wish to use. ess	
VO	Device Name	Device Address	
NEP N	BT-AP-1	00:30:4F:02:C9:87	
10	PC-1	00:30:4 F :06:6A:83	
			•
3		<u>B</u> efi	esh
	< Ba	ick Next> 0	Cancel

You will be asked for the Bluetooth passkey in the window that appears.

5. Enter the passkey under [Bluetooth Passkey (PIN code)], and then click on the [OK] button.

	Bluetooth Passkey (PIN):	•••
-	(If left blank, the d	efault PIN will be used.)
	Request Device	
	Bluetooth Device Address:	00:30:4F:02:C9:87
	Bluetooth Device Name:	BT-AP-1

Service detection and COM port creation will be performed automatically. The [Add New Connection Wizard (Create Connection Destination)] window will appear.

6. Enter the connection name, user name and password, then click on the [Next] button.

Add New Connection W	izard	
Create a connection s	etting	
	Please give the conner name and password.	ction a name, and if required, a user
	Connection name:	Direct Connection
((O))	User name:	
	Password:	
	Confirm password:	
	< Ba	ck Next > Cancel

Note

. The user name and password are entered here to allow you to connect to the access point.

The [Add New Connection Wizard (Confirm Dial-up Settings)] window will appear.

7. Click on the [Confirm Settings] button.

Add New Connection	Add New Connection Wizard 🛛 👔 🕹		
Please confirm a dia	l-up setting		
	If [Never dial a connection] has been selected in the Internet properties, connections made according to the CDM Autoconnect settings will not function properly. Please press the button below to confirm dial-up settings.		
	< <u>₿</u> ack <u>N</u> ext> Cancel		

8. **Configure the connection method, and then click on the [OK] button.** Set the connection destination used for the LAN connection set up in (6) above as the default connection destination, and then select "Always dial my default connection."

ternet Properties	? 🔀
General Security Privacy Content Connections	Programs Advanced
To set up an Internet connection, click Setup.	Setup
Dial-up and Virtual Private Network settings	
Direct Connection (Default)	Add
	Remove
Choose Settings if you need to configure a proxy server for a connection.	Settings
Never dial a connection Dial whenever a network connection is not press Always dial my default connection	ent
Current Direct Connection	Set Default
CLocal Area Network (LAN) settings	
LAN Settings do not apply to dial-up connections. Choose Settings above for dial-up settings.	LAN Settings
]
OK Car	ncel Apply

9. Click on the [Next] button.

Add New Connection Wizard 🛛 🛛 🕹		
Please confirm a dial-	up setting	
	If [Never dial a connection] has been selected in the Internet properties, connections made according to the COM Autoconnect settings will not function properly. Please press the button below to confirm dial-up settings.	
	< <u>B</u> ack <u>N</u> ext > Cancel	

10. Enter the type and name of the icon displayed after registration, and then click on the [Next] button.

Please click on the [Next] button if you are satisfied with the settings.

Enter a name and :	select an icon.
	Set up the connection name and icon. Setting information Connection Name: BT:AP-1[192:168:100.11][Direct Connection] Icon Change [cons Change [cons Create a shortcut on the desktop
	<back next=""> Cancel</back>

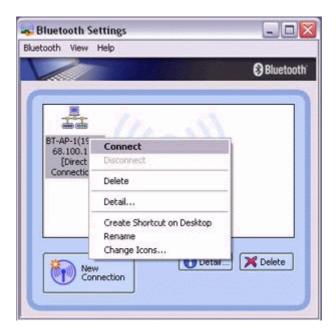
11. Click on the [Finish] button.

The access point icon will be registered in the [Bluetooth Settings] window.



Connecting to a LAN(LAP)

1. Right-click on the connection icon in the [Bluetooth Settings] window, and then click on [Connect].



2. Confirm that "Direct connection" has been selected under [Connection Destination], and then click on the [Connect] button

	Direct Connection	
ser name:		
assword:		
	Save password	
	Connect gutomatical	ly.
Connect	Settings C	ancel

A connection will be initiated.

Note

. This is an example of what happens when you use "Direct connection" as a connection name under "Connect to access point." If a name different from the connection name is used, that name will appear under [Connection Destination].

. Please simply click on [Settings] if no user name or password have been entered (i.e., if those fields have been left blank)

. Please change the connection destination if a different connection name (for a dial-up connection) appears in [Connection Destination].

Direct Connection	~
Direct Connection	
London A	

Once you connect to the network, Internet Explorer will start automatically, and you will be able to exchange data with other computers on the network.

Note

. Please follow the procedure below if you need to set up a proxy server to connect to the Internet (the following procedure is not necessary if the PC you are going to use has already been set up as a proxy server).

1. Select [Internet Options...] from the [Tools] menu in Internet Explorer.

The [Internet Options] window will appear.

2. Click on the [Connections] tab, and then click on the [Settings...] button.

neral Securi	y Privacy	Content	Connections	Programs Advar
To set Setup.	up an Interr			Set <u>up</u>
Sirect C	onnection (C	S. 66 (1997) -		Add
Se London	A			<u>R</u> emove
Choose Settin server for a c		ed to conf	igure a proxy	Settings
O Never dial	a connectio	n		
O Dial when	ever a netwo	ork connec	tion is not pres	ent
 Always dia 	l my default	connection	n	
Current	Direct	Connection	1	S <u>e</u> t Default
Local Area Ne	stwork (LAN)	settings		
LAN Settings Choose Settir				LAN Settings

3. Enter the IP address and port number of the proxy server under [Proxy Server], and then click on the [OK] button.

Direct Connect	tion Settings				? 🗙
Automatic confi	guration				
	iguration may ove settings, disable a				re the
Automatical	ly detect settings				
Use automa	tic configuration s	cript			
Addgess					
Proxy server					
Use a proxy apply to oth	v server for this co ver connections).	nnection (These se	ettings will no	st
Address:	172.17.40.100	Port:	80	Advang	ed
Bypass (proxy server for lo	ocal addre	sses		
Dial-up settings					
User name:				Proper	ties
Password:				Adyan	ced
Domain:					
			ОК	Ca	ncel

4.2.2 Connecting to a LAN using an access point[PAN]

Setting up the access point

Important

. The access point must have been started and a normal connection already established to the network before the access point is set up. Please refer to the access point instruction manual for information on how to set up the access point.

. A Bluetooth passkey (PIN code) is required for you to connect to the access point. Please make a note of your Bluetooth passkey before you start the set-up process.

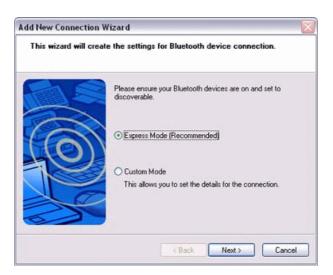
- 2. Turn on the access point, and confirm that a connection has been established with the network.
- 3. Right-click the Bluetooth icon in the task tray, and then click on [Add New Connection].



Note

. Alternatively, click [Start] \rightarrow [All Programs] \rightarrow [Bluetooth] \rightarrow [Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

4. Confirm that [Express Mode] has been selected, and then click on the [Next] button.



The [Add New Connection Wizard (Searching for Bluetooth devices)] window will appear.

Add New Connection Searching for Blue	
	Searching for Bluetooth devices.
	< Back Next > Cancel

5. Select the device name of the access point from [Device List], and then click on the [Next] button.

Add New Connection Wiz	ard	×
Select a device		
	Please choose the Bluet	ooth device you wish to use.
	-Bluetooth device addre	855
	Device list	
	Device Name	Device Address
	BT-AP-1	00:30:4F:5C:8C:87
		~
		Refresh
	< Ba	ck Next> Cancel

You will be asked for the Bluetooth passkey in the window that appears.

6. Enter the passkey under [Bluetooth Passkey (PIN code)], and then click on the [OK] button.

Bluetooth Ma	nager - Bluetooth Security	
2	Bluetooth Passkey (PIN): (If left blank, the default PIN will be used.) Request Device Bluetooth Device Address: 00:30:4F:5C:8C:87 Bluetooth Device Name: BT-AP-1 (132.168.100.21)	
	OK Cancel	

Service detection and COM port creation will be performed automatically. The [Add New Connection Wizard (Connection Name Settings)] window will appear.

7. Enter the type and name of the icon displayed after registration, and then click on the [Next] button.

Please click on the [Next] button if you are satisfied with the settings.

Add New Connection W	izard 🛛 🕅
Enter a name and sele	ect an icon.
	Set up the connection name and icon. Setting information Connection Name: BT-AP-1 [192.168.100.21] Icon Change Icons Change Icons Create a shortcut on the desktop
	<back next=""> Cancel</back>

The [Add New Connection Wizard (Completing the Add New Connection Wizard)] window will appear.

8. Click on the [Finish] button.

The access point icon will be registered in the [Bluetooth Settings] window.



This will complete the access point set-up process.

Connecting to a LAN(PAN)

1. Right-click on the connection icon in the [Bluetooth Settings] window, and then click on [Connect].

10		Bluetoo
	<i>b.</i>	
BT-AP-1(19 68.100.1	Connect	
[Direct	Distannect	
Connectic	Delete	
	Detail	
	Create Shortcut on Desktop Rename Change Icons	
New New	vection	X Delete

2. Enter the passkey under [Bluetooth Passkey (PIN code)], and then click on the [OK] button.

Bluetooth Ma	nager - Bluetooth Security	1	
2	Bluetooth Passkey (PIN): (If left blank, the di Request Device Bluetooth Device Address: Bluetooth Device Name:	efault PIN will be used.) 00:30:4F:5C:8C:87 8T-AP-1 (192.168.100.21)	
		OK Cancel	

A connection will be initiated.

Note

. Please follow the procedure below if you need to set up a proxy server to connect to the Internet (the following procedure is not necessary if the PC you are going to use has already been set up as a proxy server).

1. Select [Internet Options...] from the [Tools] menu in Internet Explorer.

The [Internet Options] window will appear.

2. Click on the [Connections] tab, and then click on the [Settings...] button.

eneral Security Privacy Content	Connections	Programs	Advance
To set up an Internet connect Setup.		Setu	p
Direct Connection (Default)		Add	
Se London A		<u>R</u> emo	we
Choose Settings if you need to config server for a connection.	gure a proxy	Settin	gs
Never dial a connection Dial whenever a network connect Always dial my default connection		frie	
Current Direct Connection		S <u>e</u> t De	fault
CLocal Area Network (LAN) settings			
LAN Settings do not apply to dial-up o Choose Settings above for dial-up se		LAN Set	tings

3. Enter the IP address and port number of the proxy server under [Proxy Server], and then click on the [OK] button.

Local Area Network (LAN) Settings 🔹 👔 🔀
Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.
Automatically detect settings
Use automatic configuration script
Address
Proxy server
Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
Address: 172.17.40.100 Port: 80 Advanced
Bypass proxy server for local addresses
OK Cancel

4.3 Sending files

You can send and receive files other than business card data with a Bluetooth-enabled PC or PDA.

Use "File transfer" in the Bluetooth Information Exchanger to exchange files.

Note

. The same operations will be valid as long as the PC and PDA support the FTP profile

. "File transfer" cannot be used to send or receive business card data. Please instead use "Object Push" to perform these activities.

4.3.1 Exchanging files with a PC or PDA

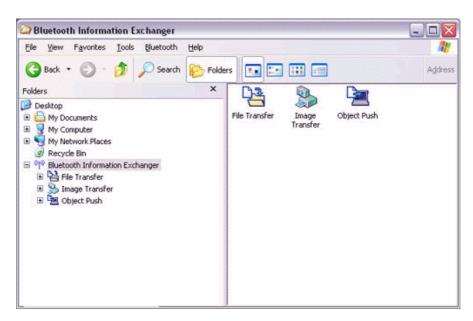
Sending files to a PC or PDA

- 1. Turn on the PC or PDA.
- 2. Double-click on the Bluetooth Information Exchanger icon on the Desktop.



Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.



3. Double-click on the [File transfer] icon.

A list of devices will appear in the [File transfer] window.

😫 File Transfer			
Elle <u>Vi</u> ew F <u>a</u> vorite:	s <u>T</u> ools <u>B</u> luetooth	Help	
G Back • 🕥	🍵 🏂 🔎 Search	h 🌔 Folders 💽 📰 💷	
Address 🎦 Bluetooth	Information Exchange	r\File Transfer	🛩 🛃 Go
P3 📕		202	
Shared Folder PC-	1 PDA-1	PDA-2	

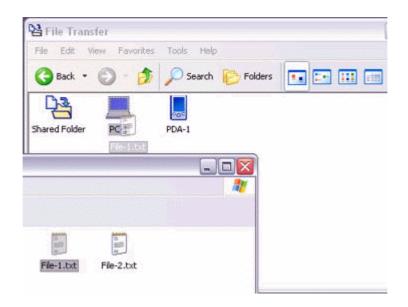
Note

. If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth] \rightarrow [Search Devices]. A device search will be performed.

. You can also use "Image transfer" when sending individual image files.

4. Use the mouse to drag and drop the file you wish to send over the destination icon.

In this case, the file will be sent to a PC named "PC-1".



Note

. When using "File transfer", you can send individual files as well as entire folders.

5. Confirm that the file is being sent.

The file will be sent to the PC.

Note

. When sending files using "File transfer", a message requesting permission to receive the files may appear on the destination (receiving) device. The content of the message will vary with the Bluetooth software installed on the destination device, so please be sure to follow the instructions provided.

If you are using the Bluetooth Utility, a message similar to the one below will appear.

	ile Receive Confirmation
A:F3?	Do you allow a Connect Request from 00:30:
	Save Folder
ment: Browse	C:\Documents and Settings\Administrator\M
Cancel	
	ОК

If the file has been sent successfully, the message below will appear. Please click on the [OK] button.

Bluetoo	th 🔀
Ú)	File transfer was successful.
	ОК

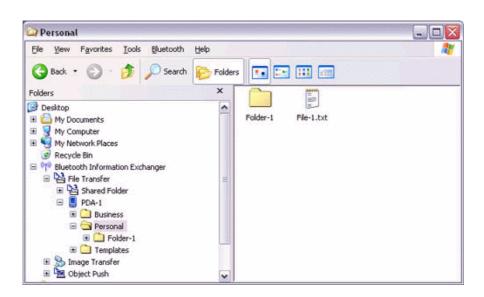
The message below will appear if the file transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the procedure.

Bluetooth 🛛 🔀	
⚠	Sending of file failed.
(ОК

Note

. Files that have been sent will be saved in a file transfer shared folder on the destination device.

. Additionally, with "File transfer", you can open the shared folder on the destination device using Explorer, specify a subfolder, and then send the file there.



. You can use Properties in the Bluetooth Information Exchanger to change the location of the "Shared folder" on the hard drive.

Receiving files from a PC or PDA

Your PC is able to receive files that have been saved in the shared folder on the destination PC or PDA. Received files will be saved in the shared folder under "File transfer".

1. Turn on the PC or PDA.

Confirm that a Bluetooth connection has been enabled before proceeding.

2. Double-click on the Bluetooth Information Exchanger icon on the Desktop.



Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.

Elle View Favorites Icools Bluetooth Help		<u></u>
🕒 Back 🔹 🕥 - 🎓 🖉 Search 🜔 Fold	ders 💶 📰 💷	Addres
Todders × Desktop My Documents My Computer My Network Places Recycle Bin Pluetooth Information Exchanger Plue Tooth Places Image Transfer Image Transfer Diject Push	File Transfer Image Object	Push

3. Double-click on the [File transfer] icon

A list of devices will appear in the [File transfer] window.

웜 File Transfer	
Elle View Favorites Iools Bluetooth Help	R
🚱 Back 🔹 🐑 - 🎓 🔎 Search 🍋 Folders 🔲 📰 💷	
Address 😫 Bluetooth Information Exchanger\File Transfer	🛩 🔁 Go
Shared Folder PC-1 PDA-1 PDA-2	

In this case, the file will be received from the PDA named "My Mobile".

4. Double-click on the [PDA-1] icon

The file saved in the shared folder in "My Mobile" will appear.

5. Right-click on the file you wish to receive, and then select "Receive file".

Personal Ne View	Favorites	Tools Bluetooth	Help		
🌀 Back 🔹	© ·	🏂 🔎 Search	Polders	••	
	「日日」			n (melline	
Folder-1	File-1.tx	Receive File	1		
		Delete			

The file will be received from a PDA.

Note

. With "File transfer", you can send individual files as well as entire folders. Please right-click on the folder you wish to receive, and select "Receive folder".



Subsequent operations should be performed in the same manner as when receiving individual files.

If the file has been received successfully, the message below will appear. Please click on the [OK] button.

Bluetoot	th 🛛 🔀
(j)	File transfer was successful.
	ОК

The message below will appear if the file transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the procedure.



Note

. The received file will be saved in the "Shared folder" under "File transfer" in the Bluetooth Information Exchanger



You can use Properties under the Bluetooth Information Exchanger to specify the location of the "Shared folder" on the hard drive.

4.3.2 Sending images to a mobile telephone

- 1. Turn on the PC or PDA.
- 2. Double-click on the Bluetooth Information Exchanger icon on the Desktop.



Note

. The mobile telephone must support the BIP profile.

. The image file"(*.bmp)(*.jpg,*.jpeg)(*.png)" formats can be sent and received using "Image transfer".

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.

Bluetooth Information Exchanger		
Ele View Favorites Iools Bluetooth Help		
🚱 Back 🔹 🕥 🕤 🏂 🔎 Search 臒 Fold	ers 💶 📰 💷	Addres
Todders X Desktop My Documents My Computer My Computer My Recycle Bin Provide Flaces Provide Bin Provide Bin Provide Bin	File Transfer Image Transfer Object Pus	h

3. **Double-click on the [File transfer] icon.** A list of devices will appear in the [File transfer] window.

😫 File Transfer			
Elle <u>V</u> lew F <u>a</u> voribes	Lools <u>B</u> luetooth	n Help	#
🕒 Back 🔹 🕥 - 👔	🔊 🔎 Searc	h 😥 Folders 💽 📰 💷	
Address 😫 Bluetooth Info	mation Exchange	er\File Transfer	💌 🛃 Go
Pa 📃	985	-o-	
Shared Folder PC-1	PDA-1	PDA-2	

4. **Drag and drop the file you wish to send over the destination icon.** In this case, the image will be sent to a mobile telephone named "BT-Phone-1".

Fle	Edit View Favoriti	es Tools Help	1
() B	ack • 🕥 - 💋	👂 🔎 Search 🔞 Folders	• 💽 🕶 💷 📖
P			
Image	InBox BT-Camera-1	BT-Phane	
		and the set	
		mogeward	
			~~~
		Contraction of the	
		THAT WE	

The image will be sent.

If the image has been sent successfully, the message below will appear. Please click on the [OK] button.

Bluetooth	
(j)	Image transfer was successful.
	ОК

The message below will appear if the image transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the procedure.

Bluetoo	th 🔀
⚠	Sending of image failed.
	ОК

# 4.4 Exchanging business card data with a PC or PDA

You can exchange business card data with a Bluetooth-enabled PC or PDA. Business card data are exchanged using "Object Push" under Bluetooth Information Exchanger.

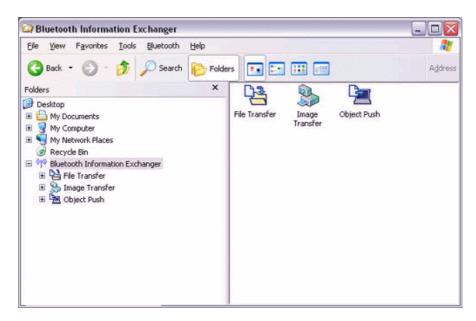
# Selecting a business card and sending it to a PC or PDA

- 1. Turn on the PC or PDA.
- 2. Double-click on the Bluetooth Information Exchanger icon on the Desktop.



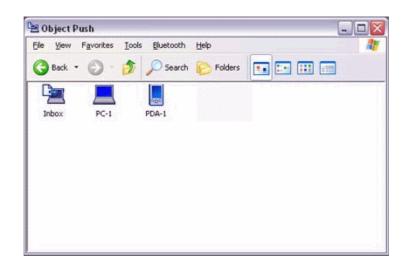
#### Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.



# 3. Double-click on the [Object Push] icon.

A list of devices will appear in the [Object Push] window.

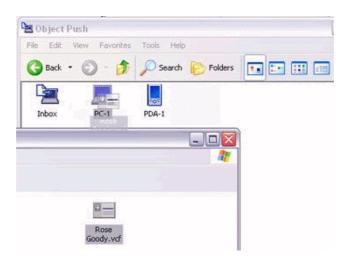


#### Note

. If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices]. A device search will be performed.

4. Use the mouse to drag and drop the business card you wish to send over the destination icon

In this case, the business card will be sent to a PC named "PC-1".



#### Note

. When you try to send a business card, a message requesting permission to receive the card may appear on the device belonging to the other party (i.e., on the receiving end). The content of the message will vary with the Bluetooth software installed on the destination device, so please be sure to follow the instructions provided. If you are using the Bluetooth Utility, a message similar to the one below will appear.

Do you allow	a Connect Request from 00:30:4F:04:BA:F3?
Save Folder	
C:\Docume	nts and Settings\Administrator\My Document: Brows

If the business card has been sent successfully, the message below will appear. Please click on the [OK] button.

Bluetoo	th 🛛 🔀
(į)	Business Card transfer was successful.
	ОК

The message below will appear if the business card transmission was unsuccessful.

Please click on the [OK] button to close the message, and repeat the procedure.



# Selecting your personal business card

You can prepare a business card bearing your name and other details such as your company and telephone numbers, and then send it to another party.

#### Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.

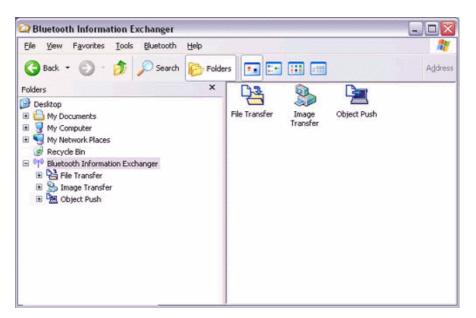
#### 1. Turn on the PC or PDA.

2. Double-click on the Bluetooth Information Exchanger icon on the Desktop.



#### Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.



# 3. Double-click on the [Object Push] icon.

A list of devices will appear in the [Object Push] window.

🔁 Object Push			
Ele View Favor	tes <u>I</u> ools <u>B</u> luetooth	Help	
G Back + 🐑	🕤 🎓 Search	h 😥 Folders 📑	
Ça 📕			C. C
Inbox P	-1 PDA-1		

# Note

. If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth] $\rightarrow$ [Search Devices]. A device search will be performed.

4. Right-click on the destination icon, and then click on [Send business card To].

In this case, your personal business card will be sent to a PC named "PC-1".

ile View Favorit	s Tools Bluetooth Help	
3 Back - 🔘	- 🎓 🔎 Search 🜔 Folders	
Inbox PC-1	Open Explorer	
	Property	
	Delete	
	Service Discovery	
	Send Business Card To	
	Receive Partner's Business Card From	

The business card will be sent.

#### Note

. When you try to send a business card, a message requesting permission to receive the files may appear on the device belonging to the other party (i.e., on the receiving end). The content of the message will vary with the Bluetooth software installed on the destination device, so please be sure to follow the instructions provided. If you are using the Bluetooth Utility, a message similar to the one below will appear.

Bluetooth	
?	Will you allow a Business Card transfer to 00:30:4F:02:C9:87?
	Yes No

. Business cards that have been sent will be saved in the Inbox of the destination party.

If your business card has been sent successfully, the message below will appear. Please click on the [OK] button.

Bluetooth	
•	Business Card transfer was successful.
	ОК

The message below will appear if the business card transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the procedure.



#### Note

. Data that has been sent will be saved in a folder for exchanged business cards on the destination device.

# Receiving a business card from another party

You can prepare a business card bearing your name and other details such as your company and telephone numbers, and then send it to another party.

Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.

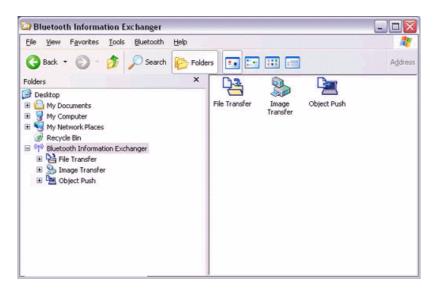
# 1. Turn on the PC or PDA.

# 2. Double-click on the Bluetooth Information Exchanger icon on the Desktop.



# Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.



# 3. Double-click on the [Object Push] icon.

A list of devices will appear in the [Object Push] window.

ish				
^z avorites <u>I</u> o	ols <u>B</u> luetooth	Help		1
🖸 · 💋	Search	Polders	•• •• •••	±111
PC-1	PDA-1			
	Favorites Io	Favorites Iools Bluetooth	Favorites Iools Bluetooth Help  Favorites Iools Search Polders  Folders  Fo	Fgvorites Iools Bluetooth Help

#### Note

. If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth] $\rightarrow$ [Search Devices]. A device search will be performed.

# 4. Right-click on the icon of the party whose card you wish to acquire, and then click on [Receive business card]

In this case, the business card of the other party will be acquired from a PC named "PC-1".

le View Favorites	Tools Bluetooth Help	
🌏 Back 🔹 🐑 -	🏂 🔎 Search 😥 Folders 🔳 📰 📰	
	Open	
Inbox PC-1	Explorer	
	Property	
	Delete	
	Service Discovery	
	Send Business Card To	
	Receive Partner's Business Card From	
	Exchange My Business Card	

The business card will be received.

# Exchanging business cards

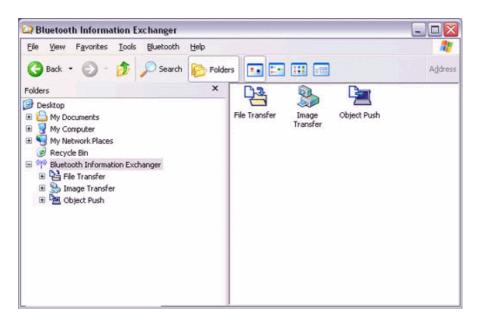
Simultaneously exchange your business card with one belonging to another party.

- 1. Turn on the PC or PDA.
- 2. Double-click on the Bluetooth Information Exchanger icon on the Desktop.



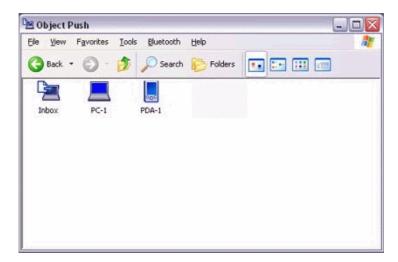
#### Note

. Alternatively, opening Explorer and clicking on the Bluetooth Information Exchanger folder will produce the same result.



3. Double-click on the [Object Push] icon.

A list of devices will appear in the [Object Push] window.



#### Note

. If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices]. A device search will be performed.

4. Right-click on the icon of the party with whom you wish to exchange business cards, and then click on [Object Push].

In this case, the business cards will be exchanged with a PC named "PC-1".

File View Favorites	Tools Bluetooth Help	
Back • 🕥 ·	🔊 🔎 Search 🌔 Folders 💽 📰 🖬	3
Inbox PC-1	Open Explorer	
	Property	
	Delete	
	Service Discovery	
	Send Business Card To Receive Partner's Business Card From	
	Exchange My Business Card	

The business card from the party who executed the "Exchange business cards" command will be sent first.

#### Note

. When you try to send a business card, a message requesting permission to receive the files may appear on the device belonging to the other party (i.e., on the receiving end). The content of the message will vary with the Bluetooth software installed on the destination device, so please be sure to follow the instructions provided.

If you are using the Bluetooth Utility, a message similar to the one below will appear.

Do you allow a Connect F	Request from 00:30:4F:04:BA:F3?
Save Folder	
C:\Documents and Sett	ings\Administrator\My Document: Brow

# 4.5 Synchronizing data with a PDA

When you connect via Bluetooth instead of with a standard cable, you will always be able to synchronize your data without the hassle of having to connect the cable.

# 4.5.1 Connecting using ActiveSync

# Preparing the PC

1. On the PC, click on [Start]→[All Programs]→[Microsoft ActiveSync].

The initial ActiveSync set-up window will appear.

It is assumed in the explanation below that no ActiveSync connections have been established with other devices.

🕸 Microsoft ActiveSync	_ 🗆 🗙
Ele Yew Iools Help	
Sync Stop Details Explore Options	
No partnerships	
Not connected	
Information Type Status	
วิทธิสังการของสาวรับ (2) เป็นเหตุการของ (2) ครั้งสารของสารสารของ (2) ครั้งสารของ (2) ครั้งสารของ (2) ครั้งสารข	миссиссилиции и а зал. ² с

2. Click [File]→[Connection Settings].

🕸 Microsoft ActiveSyn	c 📃 🗔 🔀
File View Tools Help	
Synchronize Stop	plore Options
Mobile Device Explore Delete Partnership	5
Get Connected	
Connection Settings	
Close	
	-

The [Connection Settings] window will appear.

3. Place a check next to [Allow serial cable or infrared connection to this COM port], and then select "COM7".

Click Get Computer.	onnected to connect	your mobil	e device to this
	iting for device to cor	nnect	Get <u>C</u> onnected.
Allow genial cable	e or infrared connecti	on to this C	OM port:
COM7			•
Status: COM p	ort is not available		
Allow USB conn	ection with this deskt	op comput	er.
Status: USB is	available		
	themet) and Remote in with this desktop c		ervice (RAS)
Status: Networ	rk is available		
Status icon			
Show status in	on in Taskbar.		
1. Othern ergrans he			

### Note

. In the standard set-up, the port is configured to "COM7" (refer to Steps (3) and (4) under "Preparing the PDA" below). When using a different port, please also change the port number selected in this window

### Preparing the PDA

1. Tap on the Bluetooth icon in the bottom right of the screen.



#### Important

. The graphic above shows an example of a PDA operating window.

The connection procedure may be different depending on the manufacturer or model of PDA you use. Please refer to the product instruction manuals for further details.

The [Bluetooth Settings] window will open.

The message "Connection not registered" will appear if no Bluetooth device has been registered.



Please tap on [OK] to close the message.

2. Double click on [Tools] $\rightarrow$ [Search for peripheral components].

87	Bluetooth	Sett ⁽⁽ †*)	-	€	12:06	•
Ren	note Device	es		Sta	tus	
Ser	vice Name	Status	[	Desc	riptio	n
				84		
D	evice Searc	:h				
	earch Optio					
D	elete Ghost	Devices	·			
Tool	s View Opt	ions 🔍				
			(energy)			1

The application searches for nearby Bluetooth devices.

3. Tap and hold on the destination PC icon, and then select [Update Services].

Bluetooth Sett *†* + PC-1	<b># </b> € 12:11	6
Service Name Status	Description	
Tools View Options 🍳	e	⊒  <b>^</b>

A search for services will be carried out, and then a list of service names and their connection status will appear as list in the lower window.

🎊 Bluetooth	Sett 👘	# ◀€ 12:13	•
PC-1			
			_
Service Name	Status	Description	
∮ <b>0</b> =COM7	Not C	SerialPort(T	
💾 File Trans		OBEX File T	r
🚱 Object P	Not C	OBEX Object	
Tools Yiew Op	tions 🔍	E	≝ ^

4. Tap and hold on "COM7" from the list of service names, and then select "Register ActiveSync".

🎊 Bluetoo	oth 9	Sett 👘	#	€ 12:15	_ @∂
PC-1					
	-		-		_
Service Nar	ne	Status	D	escriptio	1
File Tr	Act	iveSync	Regi	stration	<b></b>
CObjec	Сог	nection	Regi	stration	
	Pro	perties			
Tools View	Ont	ions 🔘			
TOOIS TICW	opt				

5. Tap [OK] in the confirmation message window.

<i>월</i> Bluetooth Sett 👫 🗱 📢 12:13 🛛 🚯
ActiveSync Auto Connect
Beginning ActiveSync Auto Connect. To use a function other than ActiveSync Auto Connect, cancel this setting.
Service Name Status Description
08=COM7 Not C SerialPort(T
💾 File Trans Not C OBEX File Tr
💕 Object P Not C OBEX Objec
Tools Yiew Options 🍳 🛛 🔤 🔺

An ActiveSync connection will be initiated.

# Establishing a partnership between ActiveSync and a PDA

Once a connection has been successfully established with a PDA, the procedure for establishing a partnership with the PDA will be started by the ActiveSync application on the PC.

Performing this set-up procedure will enable data to be synchronised between your PC and PDA.

1. In the [New Partnership (Set Up a Partnership)] window, select "Standard partnership", and then click on the [Next] button.



The [New Partnership (Specify Data Synchronisation Method)] window will appear.

2. Select "Synchronise with this PC", and then click on the [Next] button.

New Partnership				×
Specify how to synchron Choose to synchronize v		) and/or a server		<b>B</b>
You can synchronize data, su device and this desktop comp Server with Exchange Active! synchronize directly with a ser desktop computer is turned of	outer. However, Sync, you can al ver, getting the r	if you have acce so choose some	ess to a Microsoft E: information types to	xchange
How do you want to synchron	ize with your dev	vice?		
Synchronize with this dependence of the second s	sktop computer			
C Synchronize with Micros	oft Exchange <u>S</u> e	rver and/or this o	desktop computer	
(Note: You must have an or Microsoft Mobile Infor		ft Exchange Ser	ver with Exchange	ActiveSync
	< Back	<u>N</u> ext >	Cancel	Help
	< <u>B</u> ack	<u>N</u> ext>	Cancel	Help

The [New Partnership (Select Synchronisation Settings)] window will appear.

3. Select the type of information to be synchronised between your PC and PDA, and then click on the [Next] button.

	ilar type of information, select its check box. T Iformation, clear its check box.	o stop
Mobile Device	Desktop Computer	<b>^</b>
AvantGo	AvantGo Channels	
Calendar Calendar	Microsoft Outlook	
Contacts	Microsoft Outlook	
🗹 🛱 Favorites	Internet Explorer	
E Eles	Synchronized Files	33
🗹 🏫 Inbox	Microsoft Outlook	
	Microsoft Outlook	¥
To find out more about	and to customize what gets synchronized, clic	k Settings

The [New Partnership (Completing Setup)] window will appear.

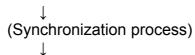
# 4. Click on the [Finish] button.



When you click on the [Finish] button, ActiveSync will begin to synchronize your information.

# [Confirming changes]

🚳 Microsoft /	ActiveSync	_ 🗆 🛛
Ele Yew Ioo	s Help	
Sync Stop	Details Explore Options	
PDA-1		
Looking for cl	hanges	
Information Typ	e Status	14 
arrena arrena da 194		



[Synchronization complete]

🕸 Microsoft Activ	veSync 📃 🗖 🔀
Eile Yiew Iools E	jelp
	etals Explore Options
PDA-1	
Connected	
Connected Synchronized	Status
Synchronized Information Type	Status
Synchronized Information Type	Synchronized
Synchronized Information Type	
Synchronized Information Type Calendar	Synchronized Synchronized

While the ActiveSync connection is active, synchronization will be performed whenever information is changed on either the PC or the PDA.

Once a partnership has been established, every time you start your PC (and PDA) thereafter, a Bluetooth connection will be opened and ActiveSync will synchronize your information.

# Finishing an ActiveSync connection

Tap and hold on "COM7" in the Bluetooth Settings window, and select [ActiveSync Release].

Bluetooth	Sett [«] †» #	<b>4</b> € 12:20 <b></b>
PC-1		
	•	
Service Name	Status	Description
COM7	Conne ActiveSync	SarislDort/T Release
💕 Object P		Registration
	Properties	
Tools View Op	tions 🔍	<b>E</b>

# Cancelling a partnership

Click on [File]  $\rightarrow$  "Delete partnership".

Click on the [Yes] button when the confirmation message appears.



# 4.6 Fax transmission

# 4.6.1 Using a modem station for fax transmission Important

. Please refer to the modem station instruction manual for information on how to connect the station to a telephone line.

. Please ensure that any drivers used to connect the PC to the modem have been installed.

. A Bluetooth passkey (PIN code) is required for you to connect to the modem station. Please make a note of your Bluetooth passkey before you start the set-up process.

. A fax application is required for you to be able to send and receive faxes. The description below is based on a example using Microsoft Fax, which is installed with Windows XP as standard.

If you are going to use a commercially available fax application, then please refer to the manual that came with the application for information on how to send and receive faxes.

# Setting up the modem station

# 1. Turn on the wireless modem station.

2. Right-click on the Bluetooth icon in the task tray, and then click on [Add New Connection].

Remote Camera         Add New Connection         Device Properties and Security         Service Properties         Help	-				Bluetooth Settings Wireless File Transfer
Device Properties and Security Service Properties	a second	Ħ	- X.		Remote Camera
Service Properties					Add New Connection
				Security	•
Help					
Fxit					•

# Note

. Alternatively, click [Start] $\rightarrow$ [All Programs] $\rightarrow$ [Bluetooth] $\rightarrow$ [Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window. The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Select [Custom Mode], and then click on the [Next] button.



The [Add New Connection Wizard (Searching for Bluetooth devices)] window will appear.

Add New Connectio		X
Searching for Blue	Searching for Bluetooth devices.	
P		
	< Back Next > Ca	ancel

Once the program has finished searching for the devices, the [Add New Connection Wizard (Select Device)] window will appear.

4. Select the device name of the wireless modem station from [Device List], and then click on the [Next] button.

Select a device	22
0	Please choose the Bluetooth device you wish to use.  Bluetooth device  Device Name  BT Modem  PC-1  PocketPC Bluetooth Printer  Refresh
	< Back Next > Cancel

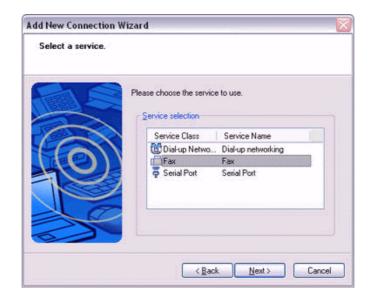
The [Add New Connection Wizard (Searching for Services)] window will appear.



5. If you are connecting to the wireless modem station for the first time, enter the passkey for the device from the [Bluetooth Passkey (PIN Code)] window, and then click on the [OK] button.



Once the program has finished searching for the services, the [Add New Connection Wizard (Select Service)] window will appear.



6. Select "Fax" under [Select Service], and then click on the [Next] button.

The [Add New Connection Wizard (Select COM Port)] window will appear.

7. Check [Use default COM port], and then click on the [Next] button.

Add New Connection V Select a COM port	Wizard 🛛 🔀
	Set the COM port to use. [We recommend using the default COM port.] Assignment of COM Port Name COM41 COM41 Use default COM port
	< <u>₿</u> ack <u>N</u> ext > Cancel

# Note

. The modem station will be installed to the grayed-out COM port displayed under [Assignment of COM Port] in this window. You will be specifying this COM port in Step (3) of "•Installing a Modem", so please write it down for future reference.

The [Add New Connection Wizard (Connecting to Remote Device)] window will appear.



The [Add New Connection Wizard (Modem Settings)] and [Phone and Modem Options] windows will appear.

8. Click on the "Add..." button in the [Phone and Modem Options] window. The [Add New Hardware Wizard (Install New Modem)] window will appear. Install the modem by following the instructions in the windows that follow.

	ns 3
aling Rules Moderns Ad-	vanced
The following mod	lems are installed:
Modem	Attached To
Software Modern AMR	CDM3
	Add <u>R</u> emove <u>Properties</u>

# Installing a modem

The [Add New Hardware Wizard (Install New Modem)] window will appear.

1. Check [Don't detect my modem; I will select it from a list], and then click on the [Next] button.



A list of modem manufacturers and models will appear.

2. Select the desired wireless modem from under [Manufacturer] and [Models], and then click on the [Next] button.



#### Note

. If you have not yet installed a modem driver, click on the "Use Device" button to install one from this window.

. If no modem drivers appear, please select "(Standard Modem Types)" and "Standard 33600 bps modem."



A window will appear where you can specify the port to which you can install the modem.

3. Select "Selected Port", specify the COM port to which the modem will be installed, and then click on the [Next] button.

You have selected the following modem:
Bluetooth Modern
On which ports do you want to install it? C All ports Selected ports
COM1 COM6 COM7 COM40

#### Important

. Please specify the COM port displayed in the window pertaining to Step (7) under "●Setting up the modem station."

# 4. Click on the [Continue] button.

The wizard will display the following window by design, but you may disregard it and click on the "Continue" button.



A window will appear indicating that the modem installation is complete.

5. Click on the [Finish] button.



6. Confirm that the configured modem has been added to the list in the [Phone and Modem Options] window, and then click on the [OK] button.

he folk	owing modems are inst	alled:	
Modem		Attached To	1
🔉 Bluetooth Mo	odern	COM40 COM3	0
ees set soor het soor h		Remove Proper	tie:

The [Next] button will be enabled on the [Add New Connection Wizard (Modem Settings)] window.

7. Click on the [Next] button on the [Add New Connection Wizard (Modem Settings)] window.



The [Add New Connection Wizard (Connection Name Settings)] window will appear.

8. Enter the type and name of the icon displayed after registration, and then click on the [Next] button.

Please click on the [Next] button if you are satisfied with the settings.

Set up the connection name and icon.	Enter a name and sele	ect an icon.
		Setting information Connection Name: EAX Icon Change [cons

The [Add New Connection Wizard (Completing the Add New Connection Wizard)] window will appear.

#### 9. Click on the [Finish] button.

The settings will be registered, and the icon will appear in the [Bluetooth Settings] window.



# Setting fax information

Configure send/receive settings and register fax information.

1. Select [Start]→[Control Panel], and then double-click on the [Printers and Other Hardware] icon.

#### Note

. If the control panel is displayed in "Classic view", and you use Windows 2000, please start from Step (2).

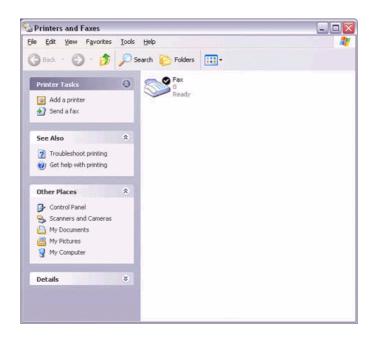
- 2. **Double-click on the [Printers and Faxes] icon.** The [Printers & Faxes] window will appear.
- 3. Click on "Install a local fax printer" in the [Printers and Faxes] window.

Printers and Faxes		
jle Edit Yjew Favorites	Iools Help Search 🌮 Folders 🔠 -	<b>A</b> t
Printer Tasks Add a printer Total a local fax printer		
See Also           Image: Troubleshoot printing           Image: Get help with printing	*	
Other Places Control Panel Scanners and Cameras My Documents My Pictures My Computer	*	
Details	8	

A window showing installed programs will appear, and a Fax icon will have been created in the [Printers and Faxes] screen.



4. Click on "Send a fax" under "Printer Tasks" on the left side of the window.



If you have not yet configured a fax device, the [Fax Configuration Wizard] window will appear. In the window you can enter settings pertaining to the sender (yourself).

#### Note

. If the fax configuration information has already been registered, the [Send Fax Wizard] window, which can be viewed under "Sending a fax" below, will appear instead of the [Fax Configuration Wizard] window.

#### 5. Enter the sender information, and click on the [Next] button

Sender Inform Enter sende	and the second se	Il appear on fax cover pages.	6
Your fyll name:	RG	Eax number:	0207 654 3210
<u>E</u> -mail address:		ay year	
∐itle:		Company:	
Office location:		Department:	
Home phone:		Work phone:	
Address:			
Billing code:			

#### Note

. The sender information that you configure here will be automatically appended as header information when you send a fax.

6. Select a device to be used for fax transmissions, enable the device for sending or receiving, and then click on the [Next] button

Fax Configuration Wizard
Select Device for Sending or Receiving Faxes Select the device that you want to use to send or receive faxes.
Please gelect the fax device
Bluetooth Modern
✓ Enable Send
Enable Beceive
Manual answer
Automatically answer after 2 C imps
< <u>Back</u> Next> Cancel

#### Note

. If [Enable Receive] is selected, the device will be on standby for receiving faxes even if it is not sending or receiving anything, and therefore will be in continuous connection to the wireless modem (when COM Auto Connect is on). Please decide whether to select this option based on the desired objective and/or frequency of transmission.

#### 7. Click on the [Next] button.

It is important that you do not change the transmitter subscriber identification.

ransmitting Su	ıbscriber Identificati	on (TSID)		
Enter the Tra	nsmitting Subscriber Ider I fax recipient.		to be used to identif	y your
The TSID is	transmitted when you se	nd a fax, and us	ually consists of a	
fax number a	nd a business name.			
<u>I</u> SID:	Eax			

8. Click on the [Finish] button.

Completing the Fax Configuration Wizard You have successfully completed the Fax Configuration Wizard.
Configuration Summary: Devices configured to send faxes: Bluetooth Modern The TSID of these devices is Fax.
To close this wizard, click Finish.

#### Setting fax information

#### Important

. The Fax service must be enabled for sending in order for you to send a fax. Please refer to "Using a wireless modem station" under "Troubleshooting" for how to change the send and receive settings once the service has been configured.

#### 1. Double-click on the [Fax] icon in the Control Panel.

The [Fax Console] window will appear.

🛱 Fax Console		_ 🗆 🛛
Elle Edit View Iools Help		
Fax     Sign Incoming     Dibbox     Southoux     Sent Items	Start Time / TSID Caller ID Pages Status	Size CSID
For Help, press F1	( ) Items Ready	>

- 2. In the [Fax Console] window, click [File]→[Send fax]. The [Send Fax Wizard (Starting the Send Fax Wizard)] window will appear.
- 3. Click on the [Next] button.



The [Send Fax Wizard (Recipient Information)] window will appear.

4. Enter the name and fax number of the destination party, and then click on the [Next] button.

		imber of the person you want to to select a fax recipient.	send the fax to	
To:	UK BIL	etooth plc		Addregs Book
Location:	United	States (1)	~	
Eax number: (		) 0207 654 3210		
Use dialing r	ules	New Location	~	Dialing rules
		ipients, type each recipient's in/ cipient to the list below.	formation above	e, and then
Recipient nan	ne	Fax number		Add
				Bemove
				Edt
1 martine and the second				

The [Send Fax Wizard (Preparing the Cover Page)] window will appear.

5. Specify the cover page template, subject line, and note (body text), and then click on the [Next] button.

template.	age mplate, and type a subject line and n matically added to the cover page.	ote il re	quired by the
Select a <u>cover</u> pag	e template with the following informati	ion	
Cover page template:	fyi	~	Sender Information.
Subject line:			
Nigel's leaving do			
Ngte:			1 253*
We'll be at the Dog ar Let me know if you'll b	d Duck in Soho from 7:30 onwards. e able to make it.	0	
		5	7 <u></u>
2			
	< Bar	*	Next>

The [Send Fax Wizard (Schedule)] window will appear.

6. If you wish to send the fax immediately, select "Now", and then click on the [Next] button.

Schedule Specify when you want your fax to be sent Higher priority faxes will be sent first.	, and set priority.
When do you want to send this fax?	
When giscount rates apply	
O Specific time in the next 24 hours:	08.52.13
What is the fax priority?	
OHigh	
<ul> <li>Normal</li> </ul>	
Olow	
	<back next=""> Cancel</back>

The [Send Fax Wizard (Completing the Send Fax Wizard)] window will appear.

7. Confirm the destination information and transmission details, and then click on the [Finish] button.

(	Completing Wizard You have success	8	
	Recipient name	1	Fax number
	UK Bluetooth plc		0207 654 3210
	Cover page templa	te: fyi	
	Subject	Nigel's	: leaving do
	Time to send:	Now	
	Preview Fax		
	To send your fax, o	lick Finish	la l
		< Bac	sk Finish Cancel

The software will automatically dial the number and send the fax.

🧼 Fax Monitor	? 🔀
Sending page 1 of 1	
The time elapsed is 0.32	
Sending fax to UK Bluetooth plc	
Keep this dialog visible at all times	
Hide Disconnect	More >>

Once the fax has been sent	t, Fax Monitor will rever	t to standby mode.
----------------------------	---------------------------	--------------------

🥪 Fax Monitor	? 🔀
5	
Ready	<u> </u>
Keep this dialog visible at all time	1
Hide Answer now	

#### Receiving a fax

1. When a fax arrives, the Fax Monitor will start automatically as the fax is received.

🥪 Fax Monitor	? 🔀
$\bigcirc$	8
The call was answered	
The time elapsed is 0:08	
Receiving fax	
Keep this dialog visible at all times	
Hide Disconnect	More >>

Once the fax has been received, the Fax Monitor will revert to standby mode.

#### Note

. If you have enabled manual fax reception, the message below will appear when a fax arrives.



Click on the message with your mouse to receive the fax.

- 2. **Double-click on the [Fax] icon in the Control Panel.** The [Fax Console] window will appear.
- 3. In the [Fax Console] window, double-click on the fax that has arrived.

🔯 Fax Console				
Eile Edit View Iools Help				
🖃 💭 Fax	Start Time /   TSID   Caller ID	Pages	Status	Size CSID
Dutbox Sent Items	16/10/2003 05:		Success	20 KB Fax
For Help, press F1	1 Item 💿 Ready			

# 4.6.2 Using a mobile telephone for fax transmission Important

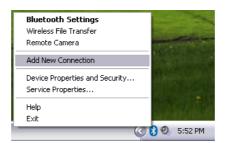
. Please ensure that any drivers used to connect the PC to the mobile telephone have been installed.

. Bluetooth passkey (PIN code) is required for you to connect to the mobile telephone. Please make a note of your Bluetooth passkey before you start the set-up process.

. A fax application is required for you to be able to send and receive faxes. The description below is based on a example using Microsoft Fax, which is installed with Windows XP as standard.

#### Setting up the mobile telephone

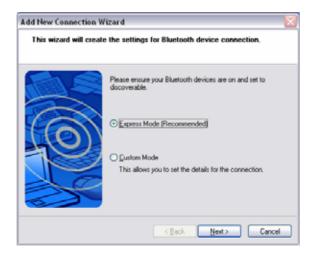
- 1. Turn on the mobile telephone, and set it to be connectable via Bluetooth.
- 2. Right-click on the Bluetooth icon in the task tray, and then click on [Add New Connection].



# Note

. Alternatively, click [Start] $\rightarrow$ [All Programs] $\rightarrow$ [Bluetooth] $\rightarrow$ [Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window. The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

# 3. Select [Custom Mode], and then click on the [Next] button.



The [Add New Connection Wizard (Searching for Bluetooth devices)] window will appear.

Add New Connectio Searching for Blu		
	Searching for Bluetooth devices.	
	< Back Next >	Cancel

Once the program has finished searching for the devices, the [Add New Connection Wizard (Select Device)] window will appear.

4. Select the device name of the mobile telephone from [Device List], and then click on the [Next] button.

Add New Connection	Wizard 🛛 👔
Select a device	
0	Please choose the Bluetooth device you wish to use.  Bluetooth device  Device Name  BT Modem  PC-1  PocketPC  Bluetooth Printer  Befresh
	< <u>B</u> ack <u>N</u> ext> Cancel

The [Add New Connection Wizard (Searching for Services)] window will appear.



5. If you are connecting to the mobile telephone for the first time, enter the passkey for the device from the [Bluetooth Passkey (PIN Code)] window, and then click on the [OK] button.

Bluetooth Mana	ager - Bluetooth Security	
2	Bluetooth Passkey (PIN): (If left blank, the default F Request Device	PIN will be used.)
	Bluetooth Device Address: Bluetooth Device Name:	00:30:4F:00:01:02 BT-Modem
		OK Cancel

Once the program has finished searching for the services, the [Add New Connection Wizard (Select Service)] window will appear.

6. Select "Fax" under [Select Service], and then click on the [Next] button.

Add New Connection ¹ Select a service.	Vizard
0	Please choose the service to use.  Service selection  Service Class Service Name  Dial-up Netwo Dial-up networking  Fax Fax Serial Port Serial Port Serial Port
	< <u>₿</u> ack <u>N</u> ext > Cancel

The [Add New Connection Wizard (Select COM Port)] window will appear.

7. Check [Use default COM port], and then click on the [Next] button.

Add New Connection Select a COM port	Wizard
	Set the CDM port to use. (We recommend using the default COM port.) Assignment of COM Port Name COM41  Auto Connect Use default COM port
	< <u>₿</u> ack <u>N</u> ext > Cancel

# Note

. The mobile telephone will be installed to the grayed-out COM port displayed under [Assignment of COM Port] in this window. You will be specifying this COM port in Step (3) of "•Installing a Modem", so please write it down for future reference.

The [Add New Connection Wizard (Connecting to Remote Device)] window will appear.



The [Add New Connection Wizard (Modem Settings)] and [Phone and Modem Options] windows will appear.

8. Click on the "Add..." button in the [Phone and Modem Options] window. The [Add New Hardware Wizard (Install New Modem)] window will appear. Install the modem by following the instructions in the windows that follow.

Attached To CDM3
COM3

# Installing a modem

The [Add New Hardware Wizard (Install New Modem)] window will appear.

1. Check [Don't detect my modem; I will select it from a list], and then click on the [Next] button.



A list of modem manufacturers and models will appear.

2. Select the desired mobile telephone from under [Manufacturer] and [Models], and then click on the [Next] button.



# Note

. If you have not yet installed a mobile telephone driver, click on the "Use Device" button to install one from this window.

. If no mobile telephone drivers appear, please select "(Standard Modem Types)" and "Standard 33600 bps modem."



A window will appear where you can specify the port to which you can install the modem.

3. Select "Selected Port", specify the COM port to which the modem will be installed, and then click on the [Next] button.

Select the port(	s) you want to install the modem on.	
	You have selected the following modem:	
	Bluetooth Modern	1
	On which ports do you want to install it?	
A. Constant	C All ports	
	Selected ports	
	COM1	
	CDM6 COM7	
	COM40	
·····	and States	

#### Important

. Please specify the COM port displayed in the window pertaining to Step (7) under "●Setting up the modem station."

# 4. Click on the [Continue] button.

The wizard will display the following window by design, but you may disregard it and click on the "Continue" button.



A window will appear indicating that the modem installation is complete.

5. Click on the [Finish] button.

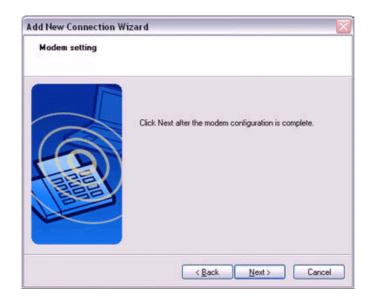


6. Confirm that the configured modem has been added to the list in the [Phone and Modem Options] window, and then click on the [OK] button.

Modem		Attached To	
Bluetooth Mode	m	COM40	
Software Moder		COM3	

The [Next] button will be enabled on the [Add New Connection Wizard (Modem Settings)] window.

7. Click on the [Next] button on the [Add New Connection Wizard (Modem Settings)] window.



The [Add New Connection Wizard (Connection Name Settings)] window will appear.

8. Enter the type and name of the icon displayed after registration, and then click on the [Next] button.

Please click on the [Next] button if you are satisfied with the settings.

Add New Connection \ Enter a name and se	
	Set up the connection name and icon.  Setting information  Connection Name:  EAX  Icon  Change Icons  Create a shortcut on the desktop
	< <u>B</u> ack. <u>N</u> ext > Cancel

The [Add New Connection Wizard (Completing the Add New Connection Wizard)] window will appear.

# 9. Click on the [Finish] button.

The settings will be registered, and the icon will appear in the [Bluetooth Settings] window.



# Setting fax information

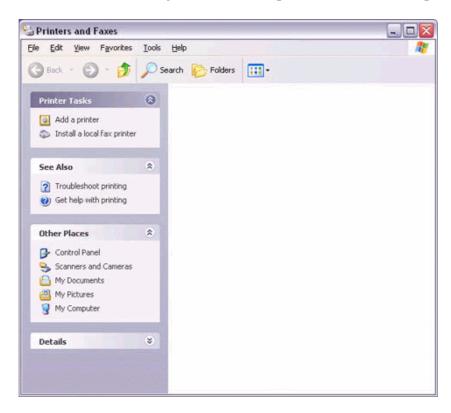
Configure send/receive settings and register fax information.

1. Select [Start]→[Control Panel], and then double-click on the [Printers and Other Hardware] icon .

Note

. If the control panel is displayed in "Classic view", and you use Windows 2000, please start from Step (2).

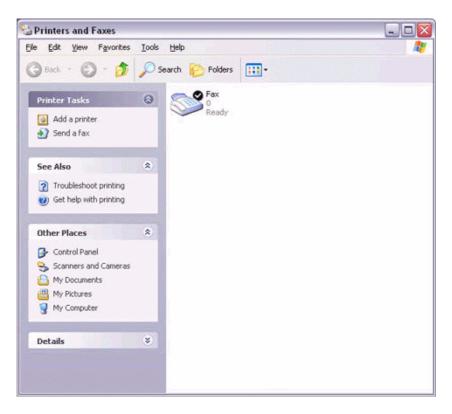
- 2. **Double-click on the [Printers and Faxes] icon.** The [Printers & Faxes] window will appear.
- 3. Click on "Install a local fax printer" in the [Printers and Faxes] window.



A window showing installed programs will appear, and a Fax icon will have been created in the [Printers and Faxes] screen.



4. Click on "Send a fax" under "Printer Tasks" on the left side of the window.



If you have not yet configured a fax device, the [Fax Configuration Wizard] window will appear. In the window you can enter settings pertaining to the sender (yourself).

# Note

. If the fax configuration information has already been registered, the [Send Fax Wizard] window, which can be viewed under "Sending a fax" below, will appear instead of the [Fax Configuration Wizard] window.

# 5. Enter the sender information, and click on the [Next] button

Sender Inform Enter sende	and the second se	il appear on fax cover pages.	E
Your fyll name:	RG	Eax number:	0207 654 3210
E-mail address:	-photoseco	ang yan	
<u>I</u> itle:		Company:	
Office location:		Department:	
Home phone:		Work phone:	
Address:			
Billing code:			

#### Note

. The sender information that you configure here will be automatically appended as header information when you send a fax.

6. Select a device to be used for fax transmissions, enable the device for sending or receiving, and then click on the [Next] button

Select Device for Sending or Re Select the device that you want to	
Please gelect the fax device	
Bluetooth Modern	<b>~</b>
Enable Send	
Enable <u>R</u> eceive	
() Manual answer	
Automatically answer after	2 C nngs

#### Note

. If [Enable Receive] is selected, the device will be on standby for receiving faxes even if it is not sending or receiving anything, and therefore will be in continuous connection to the wireless modem (when COM Auto Connect is on). Please decide whether to select this option based on the desired objective and/or frequency of transmission.

# 7. Click on the [Next] button.

It is important that you do not change the transmitter subscriber identification.

Fax	Configuratio	n Wizard
Т		Ibscriber Identification (TSID) nsmitting Subscriber Identification (TSID) to be used to identify your I fax recipient.
		transmitted when you send a fax, and usually consists of a nd a business name.
	<u>I</u> SID:	Eax
		< Back Next > Cancel

8. Click on the [Finish] button.

Completing the Fax Configuration Wizard You have successfully completed the Fax Configuration Wizard
Configuration Summary: Devices configured to send faxes: Bluetooth Modem The TSID of these devices is Fax.
To close this wizard, click Finish.

Please refer to the same procedure of "Sending a fax" and "receiving a fax" in the "using a modem station for transmission" section.

# 4.7 Using a Bluetooth-compatible camera

# Connecting the camera

1. Click on [Start ]→[All Programs]→[Bluetooth]→[Remote Camera].

# Note

. In Windows 2000, click on [Start] $\rightarrow$ [Programs] $\rightarrow$ [Bluetooth] $\rightarrow$ [Remote Camera].



The [Remote Camera] window will appear.

# 2. Turn on the camera, and set it to be connectable via Bluetooth.

# Note

. Different cameras are operated in different ways, depending on the manufacturer and model used. Please refer to the instruction manual for further details on how to operate your camera.

# 3. Click on the [Camera Search...] button.

💿 Remote Camera		
Bluetooth(B) Help		🕃 Bluetooth'
Bluetooth camera		Camera Search
Image data	<	Explorer

The camera will be detected and its icon displayed.

Suetooth Help		🕄 Bluetoot
Bluetooth camera ((()))	BT-camera-1	Camera Search
image data		Diplorer

4. Right-click on the camera icon, and select [Connect].

ST-camera-1	
	Connect
S (1)	Disconnect
eteren er filter og for	Autoconnect ON
	Autoconnect OFF
	Change name
	Properties

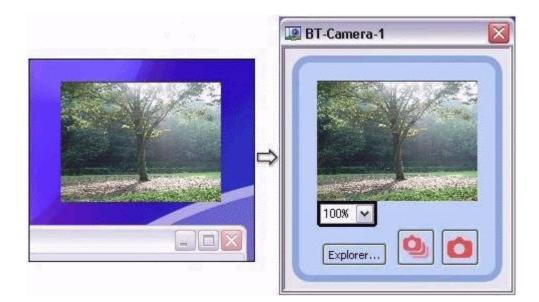
The camera will be connected, and images from the camera will appear on-screen.



# Taking a signal picture

By placing the mouse cursor over the on-screen image, the camera's operating window will appear.

You can operate the camera from this window.



1. Click on the button in the operating window. A single image will be captured and sent to the PC.

Remote Camera uetooth(8) Help		
		S Bluetoot
Bluetooth camera	BT-Camera-1	
		Convers Search

Taking several consecutive frames

1. Click on the button in the operating window. A succession of images will be captured and sent to the PC.



# Note

. The remote camera shutter cannot be operated while the camera is connected to the PC.

. The number of consecutive pictures taken can be set to anywhere between 2 and 16.

- 1. In the [Remote Camera] window, click on [Bluetooth]→[Properties]→ [Consecutive Image Settings].
- 2. Click on the [<][>] buttons to select the number of consecutive images to be captured.

Change number	or cons	ccut	
umber of imag	jes:	3	•
ſ	ОК		ance

# Note

. Images are not only sent to the PC, but are stored in the camera's on-board memory as well.

Please be aware of the remaining memory capacity when you are taking a large number of pictures.

. Large file sizes are common for high-resolution images, and may take some time to be transferred to the PC.

# Viewing images saves on your PC

A "Remote Camera" folder will be created in the "Bluetooth" folder under "My Documents" during initial set-up. A folder bearing the same name as the camera will be created in it, and images will be saved in this folder.

Click the [Explorer] button in the [Remote Camera] window to display the folder where the images have been saved.



#### Note

. This window is an example showing pictures when [Filmstrip] has been selected from the [View] menu in Explorer.

# 4.8 Using a headset to communicate

# Registering the headset

1. Right-click on the Bluetooth icon in the tasktray, then click on [Add New Connection Wizard].



#### Note

. Alternatively, you can click on [Start]>[All Programs]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetooth]>[Bluetoot

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] screen will appear.

#### 2. Turn the headset power on.

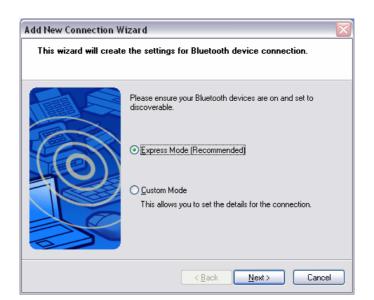
Once you have turned on the headset, set the mode to enable a Bluetooth connection.

#### Important

. The procedure for operating the headset may differ depending on the manufacturer and model.

Please consult your user guide for a detailed description of how to operate the unit.

3. Confirm that [Express Mode] has been selected, then click on the [Next] button.



The [Add New Connection Wizard (Searching for Bluetooth Devices)] screen will appear.

Add New Connection W Searching for Bluetoo	
	Searching for Bluetooth devices.
	< Back Next > Cancel

Once the device search has been completed, the [Add New Connection Wizard (Select a Device)] screen will appear.

4. Select the name of the headset device from the list, then click on the [Next] button.

Add New Connection W	'izard 🛛 🔀
Select a device	Please choose the Bluetooth device you wish to use.          Bluetooth device         Device Name         HS01         Effresh
	< Back Next > Cancel

# 5. Answering with the headset.

If the service has been properly detected, a screen will appear indicating that the headset is being called, and a tone will accordingly sound in the headset.

Bluetooth Settings	
S	Calling headset. Please press headset button.
A.	Cancel

Please press the headset switch.

# Important

. The procedure for operating the headset may differ depending on the manufacturer and model.

Please consult your user guide for a detailed description of how to operate the unit.

The [Add New Connection Wizard (Configuring (Connecting to Voice Circuit))] screen will appear, and device configuration will be performed.

#### Note

. If you are connecting to the headset for the first time, or if another Bluetooth audio device (for example, the TOSHIBA Speech Recognizer) has not yet been registered, the following [Found New Hardware Wizard] screen will appear, from which you can proceed to install the driver.

If another audio device has already been registered (i.e., the driver has been installed), you can proceed to Step 9 without having to install the driver.



# 6. Click on the [Next] button.

The [Install Hardware] screen will appear.

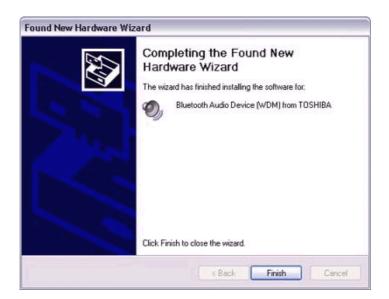
# 7. Click on the [Continue Anyway] button.

The following screen will appear automatically. You may disregard it and click on the [Continue Anyway] button.



The [Add New Connection Wizard (Completing the Found New Hardware Wizard)] screen, which is the final screen of the installation wizard, will appear.

8. Click on the [Finish] button.



Once driver installation is complete, the [Add New Connection Wizard (Enter Connection Name)] will appear.

9. Confirm the information you have entered, and click on the [Next] button.

Add New Connection	Wizard 🛛 🕅
Enter a name and se	elect an icon.
	Set up the connection name and icon.
	Setting information Connection Name: HS01 Icon Description Change Icons
	<back next=""> Cancel</back>

The [Add New Connection Wizard (Completing the Add New Connection Wizard)] screen will appear.

# 10. Click on the [Finish] button.

The configuration information will be registered, and an icon will be displayed in the [Bluetooth Settings] screen.



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#### Making a connecting to the headset

You can make a connection to the headset from an icon that has been registered in [Bluetooth Settings].

#### Important

. Before making a connection to the headset, please check that you have turned on the headset's power, and it has been enabled for a Bluetooth connection. Please ensure that the following audio-related applications have been closed before you connect the headset to your PC.

- Windows Media Player, BeatJam, InterVideo WinDVD and other music/audio playback software
- o Windows Messenger and other e-conferencing software
- LaLaVoice and other voice-recognition software

If you wish to use these applications, please terminate the headset connection before you launch them.

# 1. Right-click on the headset icon, then click on [Connect].

😽 Bluetooth	n Settings	_ 🗆 🔀
Bluetooth Vie	w Help	
		🕃 Bluetooth
9	111-55	
	Connect Disconnect Delete	
	Detail	
	Create Shortcut on Desktop Rename Change Icons	
	New Connection	X Delete

# 2. Answer with the headset.

A screen will appear indicating that the headset is being called, and a tone will accordingly sound in the headset. Please press the headset switch.



If the connection has been properly established, the icon's appearance will change to indicate a connected state.

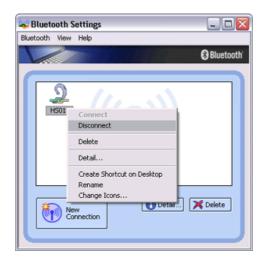


You may now launch conferencing and voice-recognition software and use the headset.

# Disconnecting from the headset

Please follow the steps below to disconnect from the headset.

1. Right-click on the headset icon in the [Bluetooth Settings] screen, then click on [Disconnect].



A message will appear, requesting confirmation that you wish to disconnect. Click on the [Yes] button.

The icon on the [Bluetooth Settings] screen will appear as shown below, indicating that the device has been disconnected.





# **Chapter 5 Advanced features**

- 5.1 Making a device undiscoverable to other users
  - 1. Right-click on the Bluetooth icon in the task tray, and then click on [Device Properties and Security...].

<b>Bluetooth Settings</b> Wireless File Transfer Remote Camera	-
Add New Connection	
Device Properties and Security Service Properties	
Help Exit	1:48 PM

The [Device Properties and Security] window will appear.

2. Select [Non-discoverable mode] in [Discoverability mode] under the [Mode] tab, and then click on the [OK] button.

🔟 Device properties and Security 🛛 🛛 🛛
General Security
Discoverability mode
Non-discoverable mode
O General discoverable mode
Connectability mode
Non-connectable mode
<ul> <li>Connectable mode</li> </ul>
Pairing mode
◯ Non-pairable mode
Pairable mode
Security mode
Link level enforced security
Encryption
Default
OK Cancel Apply

Your device will now be undetectable by other users, even when they search for other devices.

# Note

. Other devices are still able to establish connections with your device even if you have enabled the Non-discoverable mode.

Please enable "Non-connectable mode" if you wish to reject connections from other devices.

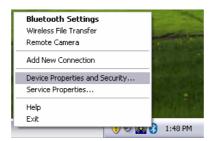
# 5.2 Encrypting the content of your transmissions

Since Bluetooth communication is conducted wirelessly, there is always the possibility that a third party may be able to intercept your transmissions. You can use encryption to render the content indecipherable to anyone who manages to intercept it.

# Important

. Encrypting your transmissions will still not guarantee complete security. Accordingly, please be aware that transmitting data is conducted with an element of risk for the user.

1. Right-click on the Bluetooth icon in the task tray, and then click on [Device Properties and Security...].



The [Device Properties and Security] window will appear.

2. Select [Link Level Enforced Security] in [Security Mode] under the [Mode] tab, put a check next to [Encryption], and then click on the [OK] button.

🚨 Device properties and Security 🛛 🛛 🔀
General Security
Discoverability mode
<ul> <li>Non-discoverable mode</li> </ul>
O General discoverable mode
Connectability mode
O Non-connectable mode
<ul> <li>Connectable mode</li> </ul>
Pairing mode
◯ Non-pairable mode
Pairable mode
Security mode
Link level enforced security
☑ Encryption
Default
OK Cancel Apply

#### Note

. Once you have configured the security mode, a window will appear when you first make a connection to another device, prompting you to enter a Bluetooth passkey (PIN code).

Please click on the [OK] button after you have entered the passkey.

Bluetooth Mana	ger - Bluetooth Security	
Ŵ	Bluetooth Passkey (PIN): (If left blank, the default F Request Device Bluetooth Device Address: Bluetooth Device Name:	PIN will be used.) 00:30:4F:C1:4B:63 Bluetooth Mouse
		OK Cancel

. The window in which you enter the passkey will not appear once you have connected more than two times to the device.

# 5.3 Changing the default connection

The "default connection" refers to the dial-up connection configured for use whenever a connection is made to the Internet.

If several connections have been registered, you can change the default connection by following the procedure below.

- 1. Start Internet Explorer.
- 2. Click on [Tools] $\rightarrow$ [Internet Options...].



The [Internet Options] window will appear.

3. Click on the [Connections] tab.



In this window, "Direct Connection" is set as the default, and "Never dial a connection" has been selected.

Change the settings so that "London A" will always be dialed when you connect to the Internet.

4. Select "Always dial my default connection".

ternet Options				?
General Security	Privacy Content	Connections	Programs	Advanced
Setup.	an Internet connec al Private Network s		Setu	p
Direct Con	nection (Default)		Add	L
			Bem	ove
Choose Settings server for a con	if you need to conf nection.	igure a proxy	Settin	gs
	connection er a network connec y default connection		ent	
Current	Direct Connection	n	S <u>e</u> t D	elault
CLocal Area Netw	ork (LAN) settings-			
	not apply to dial-up above for dial-up s		LAN Se	ttings
	OK	Ca	ncel	Apply

5. Click on "London A", and then click on the [Set Default] button.

nternet	Options					?
General	Security	Privacy	Content	Connections	Programs	Advanced
Dial-u	To set up Setup. p and Virtu		iet connec Network s		Sety	p
10.00	Direct Con	nection (D	efault)		Add	L
-	London A				Bem	ove
	se Settings r for a con		ed to conf	igure a proxy	Settin	gs
ON	ever dial a	connectio	n			
ODi	al <u>w</u> henev	er a netwo	ork connec	tion is not pres	ent	
( Al	ways dial n	ny default	connection	1		
Curre	nt	Direct	Connection	n	Set D	efauit
Local	Area Netv	vork (LAN)	settings			
	ettings do se Settings			connections. ettings.	LAN Se	ttings
L						
			OK	Ca	ncel	Apply

"London A" has been changed to the default connection.

	Options					Giner
ieneral	Security	Privacy	Content	Connections	Programs	Advance
Dial-u	To set up Setup. p and Virtu		iet connec		Setu	ıp
-	Direct Cor	nection			Add	L
9	London A	(Default)			Bem	ove
	se Setting: r for a con		ed to conf	igure a proxy	Settin	igs
ON	ever dial a	connectio	n			
OD	ial <u>w</u> henev	er a netwo	ork connec	tion is not pres	ent	
() AI	ways dial r	ny default	connection	n		
Curre	nt	Londor	A		S <u>e</u> t D	efault
Local	Area Netv	vork (LAN)	l settings -			
LAN S		not apply	to dial-up	connections. ettings.	LAN Se	ttings

# 5.4 Manually creating a virtual Bluetooth COM port

In order for a PC to connect to and communicate with a Bluetooth device, the Bluetooth Utility will create a gateway for data to be exchanged between the respective devices. This gateway is known as a "port" (or "virtual COM port").

Since one virtual COM port will be allocated to each device, trouble-free communication will still be possible even if several devices are being used.

When you use the Bluetooth Utility, a virtual COM port will be automatically created on set-up; however, virtual COM ports can be created manually if so needed.

#### 5.4.1 Clients and servers

When Bluetooth communications are performed, there will always be a "client/server" relationship between the various devices. A "client" is a device that sends certain requests to another device, while a "server" is a device that provides a service on receipt of such requests from another device.

For example, when a PC issues a print command to a wireless printer, the PC functions as the client, while the printer functions as the server.

When a PDA or other device attempts to receive files located on a PC by means of file transfer protocol, the PC functions as the server, while the PDA functions as the client.

Virtual Bluetooth COM ports can be created both for clients and servers.

# • Bluetooth virtual COM port for a client

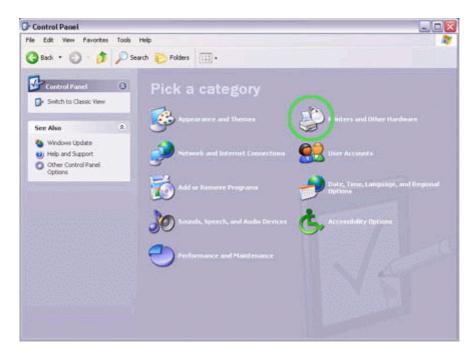
Virtual COM port used when your device is the client, and requests are sent to another device.

#### • Bluetooth virtual COM port for a server

Virtual COM port used when your device is the server, and requests are received from another device.

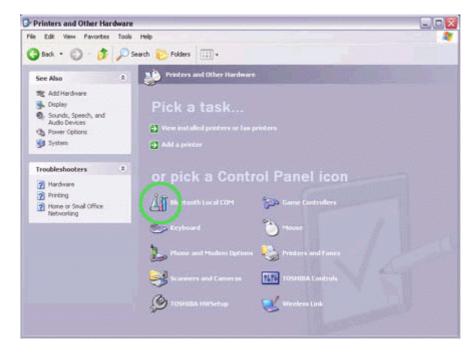
#### 5.4.2 Creating a virtual COM port

1. Click on the [Printers and Other Hardware] icon in the Control Panel.



The [Printers and Other Hardware] window appears.

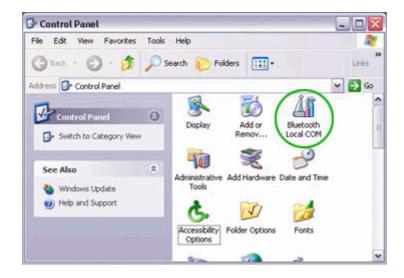
2. Double-click on the [Bluetooth Local COM] icon.



The main Bluetooth Local COM window will appear.

#### Note

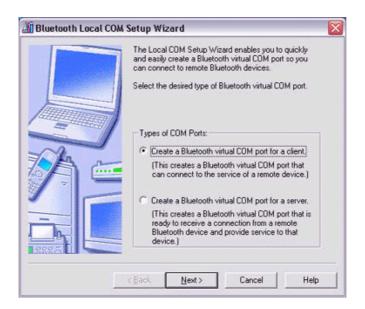
. Even when the Control Panel appears in Classic view, please simply click on the [Bluetooth Local COM] icon.



- No such distinction between viewing formats exists in Windows 2000.
- 3. Click on the [Add...] button.

Port	Description	Owner		
COM1	Communications Port (COM1)	System	ſ	
COM3	Software Modern	System		
COM6	Toshiba BT Port (COM6)	LocalCOM-Client		
COM7	Toshiba BT Port (COM7)	LocalCOM-Server[SerialPort[TOSHIBA		
COM10	Toshiba BT Port (COM10)	Information Exchanger		
COM11	Toshiba BT Port (COM11)	Information Exchanger	1	
COM12	Toshiba BT Port (COM12)	Information Exchanger		
COM13	Toshiba BT Port (COM13)	Information Exchanger		
COM14	Toshiba BT Port (COM14)	Information Exchanger		
COM15	Toshiba BT Port (COM15)	Information Exchanger	ч	
COM16	Toshiba BT Port (COM16)	Information Exchanger		
COM17	Toshiba BT Port (COM17)	Information Exchanger	~	
<			-	

The [Bluetooth Local COM Wizard] window, from where you can create a virtual COM port, will appear.



Start from this window when creating Bluetooth virtual COM ports for either servers or clients.

5.4.3 Deleting a virtual COM port

#### Note

. You can only delete virtual COM ports created by the Bluetooth Local COM utility.

1. Select the port you wish to delete from the [Bluetooth Local COM] window, and then click on the [Delete] button.

xisting CD	M Ports:			
Port	Description	Owner		
COM1 COM3	Communications Port (COM1) Software Modem	System System		
COM4	Toshiba BT Port (COM4)	LocalCOM-Client		
COM6	Toshiba BT Port (COM6)	LocalCOM-Client		
COM7	Toshiba BT Port (COM7)	LocalCOM-Server[SerialPort[TOSHIBA	1	
COM8	Toshiba BT Port (COM8)	LocalCOM-Server[SerialPort[TOSHIBA		
COM10	Toshiba BT Port (COM10)	Information Exchanger		
COM11	Toshiba BT Port (COM11)	Information Exchanger		
COM12	Toshiba BT Port (COM12)	Information Exchanger	1	
COM13	Toshiba BT Port (COM13)	Information Exchanger		
COM14	Toshiba BT Port (COM14)	Information Exchanger		
COM15	Toshiba BT Port (COM15)	Information Exchanger	~	
<		>		

A message will appear asking you to confirm that you wish to delete the port.

2. Click on the [Yes] button.

(2)			
$\mathbf{Q}$	Do you want to dele	te "Toshiba BT P	ort (COM4)" ?
	Yes	No	

The port will be deleted.

# 3. Click on the [OK] button.

xisting CO	M Ports:		
Port	Description	Owner	^
COM1	Communications Port (COM1)	System	
COM3	Software Modern	System	
COM6	Toshiba BT Port (COM6)	LocalCOM-Client	
COM7	Toshiba BT Port (COM7)	LocalCOM-Server[SerialPort[TOSHIBA	
COM10	Toshiba BT Port (COM10)	Information Exchanger	=
COM11	Toshiba BT Port (COM11)	Information Exchanger	
COM12	Toshiba BT Port (COM12)	Information Exchanger	
COM13	Toshiba BT Port (COM13)	Information Exchanger	
COM14	Toshiba BT Port (COM14)	Information Exchanger	
COM15	Toshiba BT Port (COM15)	Information Exchanger	-
COM16	Toshiba BT Port (COM16)	Information Exchanger	
COM17	Toshiba BT Port (COM17)	Information Exchanger	~
<	ш		

6

# **Chapter 6 FAQ**

# 6.1 General operation of the Bluetooth Utility

# **Bluetooth Manager**

Q: Bluetooth icon does not appear in task tray.

 If the Bluetooth icon does not appear in the task tray, Bluetooth Manager will not be active, which will prevent you from being able to use any of the functions of the Bluetooth Utility.
 Start the utilities as instructed below to enable Bluetooth Manager to start automatically and allow all functions to be utilized.

# **Bluetooth Settings**

(from Windows XP) [Start] > [All Programs] > [Bluetooth] > [Bluetooth Settings] (from Windows 2000) [Start] > [Programs] > [Bluetooth] > [Bluetooth Settings]

# **Remote Camera**

(from Windows XP) [Start] > [All Programs] > [Bluetooth] > [Remote Camera] (from Windows 2000) [Start] > [Programs] > [Bluetooth] > [Remote Camera]

# Wireless File Transfer

(from Windows XP) [Start] > [All Programs] > [Bluetooth] > [Wireless File Transfer] (from Windows 2000) [Start] > [Programs] > [Bluetooth] > [Wireless File Transfer]

Q: Unable to turn on Bluetooth.

• If the wireless communication switch on your PC has been turned off, the message below will appear, and you will not be able to turn the power on from Bluetooth Manager.



Please confirm whether the wireless communication switch has been turned on.

# Bluetooth Settings

- Q: Clicking on the [New Connection] button brings up the message "Unable to prepare Bluetooth."
- The wireless communication switch is turned off. Please switch it on.
- Q: Remote device(s) cannot be detected
- The other device(s) may have been set to Non-discoverable mode. Please check the mode settings on the device.
- Q: Services on a remote device are undiscoverable
- The other device may be using a profile that is not supported by the Bluetooth Utility
   Please check the profile being used on the other device.
- The following profiles are compatible with Bluetooth Settings.

DUN, FAX, LAP, SPP, HID, HCRP, FTP, OPP, HSP, PAN and BIP

Devices running profiles other than those above will not be able to be registered with Bluetooth Settings

# Bluetooth Information Exchanger

- Q: Transfer failed when sending a file using the right-click menu.
- FTP or OPP are the sending profiles available when you select a file, right-click it, and then click on [to Bluetooth] to send it. If the destination device does not support either of these profiles, you will not be able to send files using the right-click menu.

File transfer will also be unsuccessful if you use FTP to send a file to a device that only supports OPP.

In such cases, please click on [Bluetooth] > [Profiles] from [Bluetooth Information Exchanger], and enter the settings shown under Transfer mode.

Q: Cannot open shared folder on other device with "File Transfer".

 The other device may have a certain security level enforced (Non-connectable mode etc). Please confirm the security settings of the other device.

Please enter the correct password if you are asked to enter one.

# Remote Camera

• See "Using a camera"

# Bluetooth Local COM

Q: Cannot add port

• A maximum of 64 virtual COM ports can be added. You will be unable to add another port if 64 ports have already been configured.

# 6.2 Using a wireless modem station

Q: Modem station cannot be detected.

• If the modem station is connected to and is being used by another device, the modem station will be undetectable even if you search for it.

Q: Cannot connect to modem station

• If the modem station is connected to and is being used by another device, no other device will be able to connect to the modem station.

Q: Bluetooth passkey entry failed

 The Bluetooth passkey (PIN code) comprises a sequence of alphanumeric characters, with the letters able to be rendered in upper and lower case.
 If [Caps Lock] is on, the Bluetooth passkey may not be able to be entered correctly.

Q: Cannot connect to telephone line

• Please ensure that the telephone cable is connected from the socket to the "LINE" terminal on the modem station.

# Note

. If the telephone cable has come loose because it has not been fully inserted into the socket, the resulting poor contact may prevent data from being transmitted accurately.

. Communication will be impossible if the interior of the cable has been broken. Please replace the cable with another one.

• Please ensure that the two slide switches on the underside of the main unit have been set to the "NORMAL" and "MODEM" positions respectively.

Q: Cannot connect to the Internet

- The telephone number of the connection (i.e., the telephone number for the access point of your Internet service provider) may not be correct. Please check the telephone number.
- The user ID and/or password for the provider with whom you have signed up may have been entered incorrectly. Please check the user ID and password.
- The default connection may have been configured with different settings. Please set the connection configured for mobile telephone use as the default connection.
- When you place a call using a company switchboard or other exchange, the system may require you to enter a "0" before the telephone number itself. Please check the type of telephone line you are using.

Q: Cannot send or receive faxes

 Once you have registered a wireless modem station as your fax server, you will need to enter the fax settings from the [Printer and Faxes] window in the Control Panel.
 Please refer to "Using a modem station for fax transmissions" for information

Please refer to "Using a modem station for fax transmissions" for information on the configuration procedure.

- The telephone number of the fax destination may have been entered incorrectly. Please check the telephone number.
- If the setting under COM Auto Connect Settings has been set to "Off", a connection will not automatically be established with the modem. Please connect to the modem manually.
- When you place a call using a company switchboard or other exchange, the system may require you to enter a "0" before the telephone number itself. Please check the type of telephone line you are using.
- The fax service may not have been enabled for sending (or receiving). Please check the settings by following the procedure below.
  - 1. Open [Printers and Faxes] from the Control Panel, right-click on the [Fax] icon, and then click on [Properties].

Op	en
Set	as Default Printer
Prin	iting Preferences
Pau	use Printing
Sha	aring
Use	Printer Offline
Cre	ate Shortcut
Del	ete
Rer	name
- 22.415	perties

The [Fax properties] window will appear.

2. Select the [Device] tab, right-click on the modem you wish to use, and then click on [Properties].

General Sharing Devic	es Trac	king Archives			
Specify fax dev receive faxes.	rice setting	gs, to enable yo	ur compu	iter to send a	and
Device Name		Send		ceive	
Software Modern AMR		No	No	_	
Bluetooth Modern	• 1• • • • • • • • •	Yes	No	Send	3
				Receive	1
				Properti	es
Bluetooth Modern					
TSID:	Fax				
CSID:					
Rings before answer.			Prop	erties	

3. Select the [Send] tab, and then confirm that "Enable device to send" has been checked.

	e Cleanup			
spec	aify settings for se	ending faxes		
Enable dev	rice to send			
ISID:	Fax			
sender, and		a device when	SID) identifies you you send a fax. T ss name.	
🗹 (nclude b	anner			
Include b		3	•	
		3		
Number of re	stries:			
<u>N</u> umber of re <u>R</u> etry after:	etries: e <u>s</u> tart.	10{	🔹 minutes	

4. Select the [Receive] tab, and then confirm that "Enable device to receive" has been checked (when you wish to receive faxes).

Send	Receive	Cleanup			
1	Specify	settings for r	eceiving faxe	8	
<b>∀</b> Er	hable device	e to receive			
and	l is transmitt	ed by a devic	e when you r	) identifies you eceive an inco d business nar	
CSI	D:	Fax			
Ans	wer mode:				
(	Manual				
0	Automatik	after	2 🗘	rings	
Wh	en a fax is r	eceived:			
E	Print it on	c 🗌			S.
E	Save a c	opy in folder:			
į	) Console				ox archive of Fax al copy of the fax in

5. Click on the [OK] button.

# 6.3 Using an access point

Q: Access point cannot be detected.

• If the access point is connected to and is being used by another device, the access point will be undetectable even if you search for it.

Q: Cannot connect to access point.

• If the access point is connected to and is being used by another device, no other device will be able to connect to the access point.

Q: Cannot connect to LAN.

• The LAN cable may not be properly connected to the access point. Please check the connection status.

# Note

. If the LAN cable has come loose because it has not been fully inserted into the socket, the resulting poor contact may prevent data from being transmitted accurately.

. Communication will be impossible if the interior of the LAN cable has been broken. Please replace the cable with another one.

 The access point may not have been configured correctly, and may not be able to maintain the connection to the LAN.
 Please refer to the product instruction manual for information on how to configure your access point.

Q: Cannot connect to the Internet.

• If you are using a LAN to connect to the Internet, the LAN environment of the company or location where you are trying to establish the connection may require you to connect via a proxy server.

# 6.4 Using a mobile telephone

Q: Mobile telephone cannot be detected.

• If the mobile telephone is connected to and is being used by another device, the mobile telephone will be undetectable even if you search for it.

Q: Cannot connect to mobile telephone.

• If the mobile telephone is connected to and is being used by another device, no other device will be able to connect to the mobile telephone.

Q: Cannot send images to mobile telephone.

• Please use the appropriate transfer method, according to the profiles supported by your mobile telephone.

If OPP is supported: right-click on a file to send it

If BIP is supported: use "Image transfer" under Bluetooth Information Exchanger to send images

- Q: Cannot connect to the Internet.
- The telephone number of the connection (i.e., the telephone number for the access point of your Internet service provider) may not be correct. Please check the telephone number.
- The user ID and/or password for the provider with whom you have signed up may have been entered incorrectly. Please check the user ID and password.
- The default connection may have been configured with different settings. Please set the connection configured for mobile telephone use as the default connection.

Q: Cannot send or receive faxes.

• Once you have registered a mobile telephone as your fax server, you will need to enter the fax settings from the [Printer and Faxes] window in the Control Panel.

Please refer to "Using a modem station for fax transmissions" for information on the configuration procedure.

- The telephone number of the fax destination may have been entered incorrectly. Please check the telephone number.
- If the setting under COM Auto Connect Settings has been set to "Off", a connection will not automatically be established with the modem. Please connect to the mobile telephone manually.
- The fax service may not have been enabled for sending (or receiving). Please check the settings by following the procedure below.
  - 1. Open [Printers and Faxes] from the Control Panel, right-click on the [Fax] icon, and then click on [Properties].

0	pen
Se	at as Default Printer
Pr	inting Preferences
Pa	ause Printing
sł	haring
Us	se Printer Offline
Cr	eate Shortcut
De	alete
Re	ename
Pr	operties

The [Fax properties] window will appear.

2. Select the [Device] tab, right-click on the modem you wish to use, and then click on [Properties].

General Sharing	Devices Track	ing Archives			
Specify fa receive fa	ax device setting axes,	s, to enable you	r compute	r to send	and
Device Name		Send	Rece	ive	
Software Modern		No	No		
Bluetooth Modern	1	Yes	No	Send	
				Receive	6
- Bluetooth Moder		0000 <u>0000</u>		Properti	ies
TSID:	Fax				
CSID:					
Rings before ans	wor:	(	Propert	ties	

3. Select the [Send] tab, and then confirm that "Enable device to send" has been checked.

end	Receive	Cleanup		
	Specif	ly settings for send	ing faxes	
VE	nable devic	ce to send		
IS	D:	Fax		
			ntification (TSID) identifies you	
sen usu	der, and is	transmitted by a d ts of a fax number,	levice when you send a fax. T and business name.	
sen usu	ider, and is ially consis	transmitted by a d ts of a fax number, nner	levice when you send a fax. T	
sen usu <u>N</u> ur	ider, and is ially consis Include ba	transmitted by a d ts of a fax number, nner	evice when you send a fax. T and business name.	
sen usu <u>N</u> ur <u>R</u> ef	ider, and is ially consis Include ba mber of retr	transmitted by a d ts of a fax number, inner	levice when you send a fax. T and business name.	

4. Select the [Receive] tab, and then confirm that "Enable device to receive" has been checked when you wish to receive faxes).

Send	Receive	Cleanup				
1	Specify	settings for r	eceiving fa	wes		
VE:	hable device	to receive				
and	l is transmitt		e when yo	u receive ar	s you as a fax nincoming fax. s name.	
CS	D:	Fax				
And	wer mode:	(Second				2000
(	Manual					
(	Automatik	after	2	🗘 rings		
Wh	en a fax is r	eceived:				
C	Print it on	· []				~
E	Save a c	opy in folder:				
į	) Console				e Inbox archiv litional copy of	

5. Click on the [OK] button.

# 6.5 Using a PDA

Q: Cannot make an ActiveSync connection.

- Please confirm that you have installed ActiveSync v3.7 or higher on your PC.
- ActiveSync is installed to COM7 as a default. Please refer to "Synchronizing data with a PDA" and re-configure your ActiveSync connection.
   If a port other than COM7 has been used, please amend the ActiveSync connection settings accordingly.
- Q: Cannot locate a saved file.
- The type of file sent to your PDA, as well as the profile used to send the file, may affect where folders saved on your PDA are located.

Examples: Images transferred to your PDA using "Image transfer" > saved in the "Image transfer" folder Images transferred to your PDA using "File transfer" > saved in the "Shared folder"

# 6.6 Using a camera

Q: Camera cannot be detected.

• If the camera is connected to and is being used by another device, the camera will be undetectable even if you search for it.

Q: Cannot connect to camera.

• If the camera is connected to and is being used by another device, no other device will be able to connect to the camera.

Q: Images from the camera can be displayed, but no pictures can be taken.

- The memory card in the camera may be full. Please make a backup of all your necessary data on alternative media, then delete the images from the memory card, and ascertain how much free space remains.
- Q: Camera images do not appear in window.
- The camera may not have been set to remote camera mode (image browse mode, configuration mode, etc).

Certain cameras will end the Bluetooth connection automatically if you change the settings in a mode other than remote camera mode. Please re-connect to the camera when you next wish to use the device in remote camera mode.

# 6.7 Using a Bluetooth Headset

Q: Bluetooth Headset cannot be detected.

• If the Bluetooth Headset is connected to and is being used by another device, the Bluetooth Headset will be undetectable even if you search for it.

Q: Cannot connect to Bluetooth Headset.

- If the Bluetooth Headset is connected to and is being used by another device, no other device will be able to connect to the Bluetooth Headset.
- A Bluetooth connection will be impossible if the Bluetooth Headset is connected to a power adaptor.

Please remove the power adaptor and re-connect.

Q: Sound cuts out/cannot hear anything.

 Using a Bluetooth headset with other Bluetooth devices may cause problems such as interruptions in sound, reduced transfer speed or failure during file transfer, and disconnection of the other Bluetooth devices. We strongly recommend using a Bluetooth headset on its own and not in connection with other Bluetooth devices.

- Please confirm that the Bluetooth Headset is being operated correctly (for example, ensure that the correct mode (audio or communications) mode has been selected).
- Please confirm that the voice file or CD is being played back normally on your PC.
- Please check the volume settings on your Bluetooth Headset and PC.
- If Windows Media Player or another audio-related application is active when you try to connect your Bluetooth Headset, you may find it impossible to connect properly to the Bluetooth Headset, or even to use it at all. Please start such applications after you have connected to the Bluetooth Headset.

# **Appendix A Specification**

Model	BT-510U	BT-520U
Bluetooth Spec. Compliance	Bluetooth V2.0+EDR	
Transfer rates (Max)	Max UART baud rates of 3Mbps	
Operating Voltage	+5V	
USB Standard	USB 2.0	
Operating Distance	100 m in free space	10 m in free space
Antenna	2dBi Antenna	0 dBi printing Antenna
Dimension	49.36 (L) x 17.99(W) x 7.55(H) mm	
Power Consumption	TX → 120mA RX → 58mA Stand By → 50mA	TX $\rightarrow$ 60mA RX $\rightarrow$ 58mA Stand By $\rightarrow$ 30mA
Environment	Operation temperature: 0 ~ 60 Degree C Storage temperature: -10 ~ 70 Degree C Humidity: 5 ~ 90% non-condensing	
Radio		
Spread Spectrum	Frequency Hopping Spread Spectrum (FHSS)	
Frequency Range	2402~2483.5MHz	
RF Channels	79	
Polarization	Omni-directional	
Modulation	GFSK for 1Mbps, /4-DQPSK for 2Mbps, 8-DPSK for 3Mbps	
Output Power	13.35dBm	1.74dBm
Receiver Sensitivity	<-82dBm at < 0.1% BER	<-82dBm at < 0.1% BER
Base Band		
Physical Links	Support of ACL link with data rate up to 3Mbps	
	Support of SCO link	
Network Capabilities	Support of piconet connections	point-to-point and point-to-multipoint

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