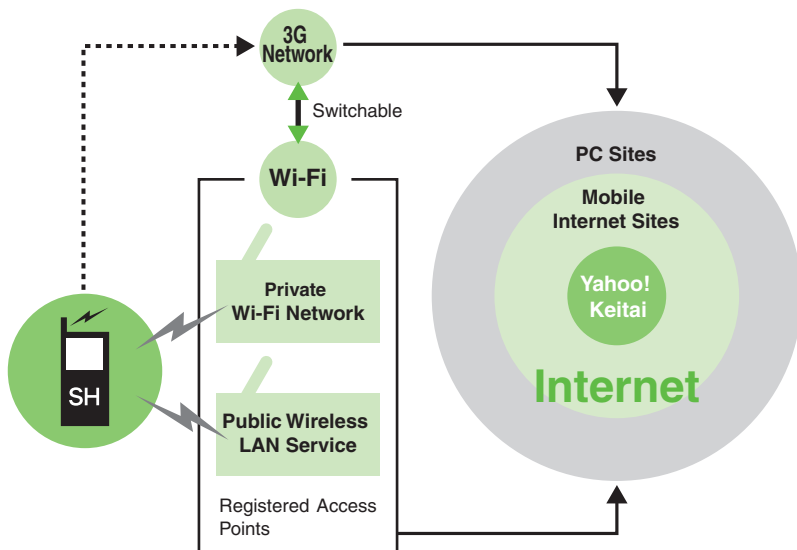


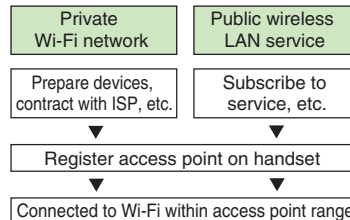
Wi-Fi (Wireless LAN)

004SH supports wireless LAN (hereafter "Wi-Fi") that enables Internet connection via private Wi-Fi network, public wireless LAN service, etc. Handset connects to the Internet via Wi-Fi automatically whenever possible, allowing high-speed communication without switching networks.

Subscribe to Keitai Wi-Fi to use Wi-Fi.



Service Usage Outline



Registering Access Points

- Save access point information to handset to use Wi-Fi.
 - Handset connects to registered access points automatically.
- Access point search may take some time depending on the number of registered access points.

Important Wi-Fi Usage Note

- Depending on signal conditions, connection may automatically switch from Wi-Fi to 3G incurring packet transmission fees; set confirmation to appear as needed.

Registering Private Access Points

- Broadband connection, ISP subscription and Wi-Fi access point are required.
- To connect to corporate access points, consult the system administrator for settings.
- Configure settings on Wi-Fi access points beforehand. (For details, see the access point guide.)
- Access point information (SSID, authentication method, encryption method, security key, etc.) is unique to each access point. Check it beforehand.

Using AOSS™ or WPS

AOSS™ and WPS are systems/standards for easy access point registration and security configuration; available on compatible Wi-Fi access points.

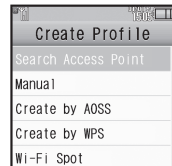
Using AOSS™

- 1  ➔ **Tools** ➔  ➔  ➔ **Connectivity** ➔ **Wi-Fi** ➔ 



Wi-Fi Menu


- 2 **Create Profile** ➔ 



Create Profile Menu

- 3 **Create by AOSS** ➔ 

- 4 

- Follow onscreen instructions.
- To cancel, press .
- Handset connects to Wi-Fi upon completion of registration (Switch On/Off: **On**).

Using WPS

Example: Push Button Configuration (PBC) method

1 In Create Profile menu, **Create by WPS** ➔ ●

2 ●

- Follow onscreen instructions.
- To cancel, press **[Yr]**.
- Handset connects to Wi-Fi upon completion of registration (Switch On/Off: **On**).

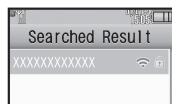
Using PIN Method

- Enter an eight-digit number (PIN) generated by handset into the access point.

After **1**, **[Yr]** ➔ **PIN entry** ➔ ● ➔ ●
 ➔ **Enter number on Display into access point** ➔ ●

Access Point Search

1 In Create Profile menu, **Search Access Point** ➔ ●



- To cancel search, press **[Yr]**.

2 Select access point ➔ ●

3 Enter corresponding security key ➔ ●

4 **Yes** ➔ ●

- Handset connects to Wi-Fi (Switch On/Off: **On**).

If Encryption Method is WEP

- After **3**, authentication method selection window opens. Select a method according to the access point.

Registering Access Points Manually

Check access point information beforehand.

Major Items

Access Point Profile

Profile Name	Enter a name
SSID	Enter the same SSID as the access point

Security

Authentication Method	Supported authentication methods vary by access point; set accordingly
Encryption Method	Supported encryption methods vary by authentication method; set according to access point
Security Key	Enter the security key (also called "encryption key," "network key" or "passphrase") set on the access point

Entering Information

Example: Authentication Method is WPA/WPA2-PSK Auto.

- 1 In Create Profile menu, **Manual** →
- 2 **Profile Name** → → Enter name →
- 3 **SSID** → → Enter SSID →
- 4 **Security** →



Security Menu

- 5 **Authentication Method** → → Select method →
- 6 **Encryption Method** → → Select method →
- 7 **Security Key** → → Enter security key →



- Handset connects to Wi-Fi (Switch On/Off: **On**).

If Authentication Method is *Open System* & Encryption Method is *No Authentication*

- Omit security key entry.

If Encryption Method is *WEP*

- In , *<Empty>* → → Enter WEP key → → → From

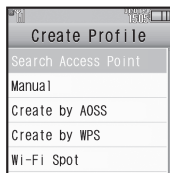
Using Public Wireless LAN Services

- Subscription with the corresponding service provider, etc. is required.
- Access point information (SSID, authentication method, encryption method, security key, etc.) is unique to each access point. Check it beforehand.
- Subscribe to Keitai Wi-Fi to use SoftBank Wi-Fi Spot or BB mobilepoint (provided by SOFTBANK TELECOM) access points.
 - For more about BB mobilepoint, see SOFTBANK TELECOM Website at <http://tm.softbank.jp/english/consumer/wlan/index.html>.

Using Wi-Fi Spot

1 → **Tools** → →
Connectivity → **Wi-Fi** →

2 **Create Profile** →



Create Profile Menu

3 **Wi-Fi Spot** →

4 **Password** → → Enter
password →

5

6 **Yes** →

- Handset connects to Wi-Fi (Switch On/Off: *On*).

Using Other Public Wireless LAN Services

- Check public wireless LAN service information beforehand.
- **Connection to some public wireless LAN services may not be possible.**

1 **In Create Profile menu,**
Manual →

2 **Complete fields**
 • For details, see P.6-4 "Entering Information."

3 **Advanced Settings** → →
WISPr Settings →

4 **User ID** → → Enter ID
 →

5 **Password** → → Enter
password →

6 **Switch On/Off** → → **On**
 →

7 → →

8 **Yes** →

- Handset connects to Wi-Fi (Switch On/Off: *On*).

Infrared

Wirelessly transfer files between 004SH and compatible devices.

004SH supports IrSimple™ high-speed wireless communications protocol; exchange large image files instantly with compatible mobile phones, printers, etc.

Transferable Files

Phone Book	Received Msg.
Calendar	Sent Messages
Tasks	Drafts
Notepad	Templates (Messaging)
Bookmarks	Data Folder

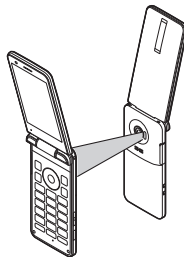
- Copy/forward protected files are not transferable.
- Some files may not be transferable; some settings may be lost, or files may not be saved properly.

Getting Started

Infrared Precautions

Align Infrared Ports of both devices.

- Handset cannot receive connection requests during Software Update.



- Do not place objects between devices.
- Keep Infrared Ports aligned during transfer.
- Do not look into Infrared Port during infrared transmissions. Eyesight may be affected.
- 004SH complies with IrMC 1.1, however, some files may not transfer properly.

Transfer Options

One File Transfer	Transfer single files
All File Transfer	Transfer all files by function
IrSS Transfer	Exchange single JPEG image files with compatible devices at high speed

- Some transfer options may be unavailable depending on file type.
- Transfer Memory Card files one by one.

Authorization Code

- Four-digit code required for Infrared transfers. All File Transfers are possible when codes match. (Authorization Code is changeable for each transfer.)

Transferring Files via Infrared

Receiving Files

1 ➔ *Tools* ➔ ➔ ➔ ➔ *Connectivity* ➔ *Infrared* ➔

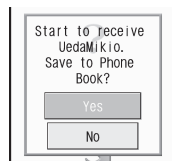
2 *Switch On/Off* ➔ ➔ ➔ *On(3 min.)* ➔



Indicator

- Infrared is activated.
- Handset receives files if sent within three minutes.
- Handset must be in Standby to accept connection requests.

3 **Connection request arrives**



Request Window

4 **Perform subsequent operations**

- To cancel transfer, press .

Subsequent Operations

■ One File Transfer

Yes ➔

- If storage media confirmation appears, select media and press .

■ All File Transfer (Adding Files)

Yes ➔ ➔ *Enter Authorization*

Code ➔ ➔ *As New Items* ➔

■ All File Transfer (Overwriting Existing Files)

Yes ➔ ➔ *Enter Authorization*

Code ➔ ➔ *Delete All & Save* ➔

➔ *Yes* ➔

- For Phone Book, My Details except handset phone number is overwritten as well.

■ IrSS Transfer


Yes ➔

- Files are saved to Data Folder (Pictures).

Sending Files














One File Transfer

Example: Phone Book entry



- 1  ➔ **Select entry** ➔  ➔ **Send Entry** ➔ 
- 2 **Via Infrared** ➔  ➔ **Transfer starts**

- When complete, entry search window returns.







All File Transfer

- 1  ➔ **Tools** ➔  ➔  ➔ **Connectivity** ➔ **Infrared** ➔ 
- 2 **Send All** ➔ 
- 3 **Yes** ➔  ➔ **Enter Handset Code** ➔ 
- 4 **Select item** ➔  ( / ) ➔ **Complete selection** ➔ 
- 5 **Enter Authorization Code** ➔  ➔ **Transfer starts** ➔ 

Sending Phone Book

- In , Picture transfer confirmation appears; choose **Yes** or **No** and press .

Sending JPEG Images at High Speed

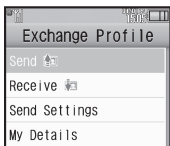
- 1  ➔ **Data Folder** ➔ 
- 2 **Pictures or DCIM** ➔ 
For **DCIM**, select a folder and press .
- 3 **Select image** ➔  (Long)
- 4 **Yes or No** ➔  ➔ **Transfer starts**
 - Images may be reduced automatically before transfer depending on size.
 - When complete, file list returns.
 - Transfers are one-way; end even if files are not received.

Exchanging Contact Information

Exchange name, phone numbers, mail addresses, and other contact info with other compatible handsets via infrared. Read **P.6-6** "Infrared Precautions" beforehand.

Receiving Profiles

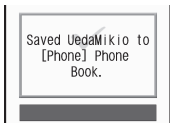
1 (Long)



Exchange Profile Menu

2 Receive

3 Profile received



- Received profile is saved to Phone Book.

Sending Profiles

1 In Exchange Profile menu, Send

Transfer starts

Changing Profile Items to Send

[Exchange Profile Menu] Send

Settings Select item

Complete selection

Opening My Details

[Exchange Profile Menu] My Details

Bluetooth®

Wirelessly transfer files/data between 004SH and compatible devices (watches, handsfree devices, etc.).

- For transferable files, see **P.6-6**.
- 004SH supports simultaneous connection with two devices. (May be unavailable depending on device type.)
- Bluetooth® connection may not be possible with some Bluetooth® devices.
 - Handset shall be connected to certified Bluetooth® devices that meet the specification standards developed by the Bluetooth SIG.
 - Data transfers may fail depending on characteristics or specifications of the certified Bluetooth® devices.
 - Noise may interfere with wireless or handsfree conversations.
- TV audio is supported only on SCMS-T DRM scheme compliant Bluetooth® devices.

Getting Started

Bluetooth® Precautions

Check transmission range of your Bluetooth® device to use with handset properly. Maximum transmission range for transfers between 004SH handsets is ten meters. (Bluetooth® connection/transfer rate may vary depending on conditions.)

Important Handsfree Device Usage Note

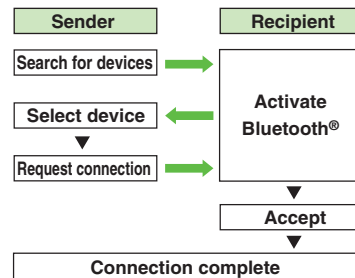
- Handle call operations on the device in use.

Bluetooth® Watches

- Compatible Bluetooth® watches support these functions:

■ Clock sync	■ Alarm notice
■ News notice	■ Mail notice
■ Remote Shutter	■ Mode Settings
■ Quick Silent	■ Caller ID notice
■ Hold calls	■ Show Operator Name
- For details about functions/operations, see the Bluetooth® watch guide.

Bluetooth® Connection



Authorization Code

- 4 to 16-digit code required for Bluetooth® connections with devices not compliant with Bluetooth® specification Ver. 2.1.
 - For handsfree devices, enter specified Authorization Code.

Transferring Files via Bluetooth®

Activating Bluetooth®

1 (Long)



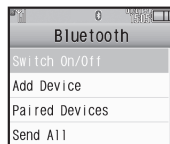
Indicator

- Bluetooth® is activated.
- Handset must be in Standby to accept connection requests from unpaired handsfree devices, etc.
- To cancel Bluetooth®, Long Press

Connecting Bluetooth® Devices

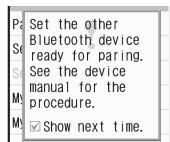
Device Search & Pairing

1 → **Tools** → → → **Connectivity** → **Bluetooth** →



Bluetooth Menu

2 **Add Device** →



- To hide message, press before .

3

- Found devices are listed after search.
- To cancel search, press .

4 **Select device** →

If a confirmation appears, choose **Yes** and press .

5 **Yes** → → **Pairing complete**

- If the other device is a keyboard, follow onscreen instructions.

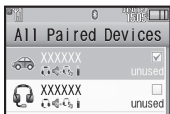
Connecting Devices Not Compliant with Bluetooth® Specification Ver. 2.1

In , enter the same **Authorization Code** for handset and the other device → → **Pairing complete**

- On the other device, complete code entry within 30 seconds.
- Code entry is omitted for paired devices.

Connecting Paired Handsfree Devices, Etc.

1 In Bluetooth menu, *Paired Devices* ➔ ●



Paired Device List

2 Select device ➔ ●

If handset is already connected to another device, disconnection confirmation may appear; choose **Yes** and press ●.

- The device is connected and (preferred) appears.

Accepting Connection Requests

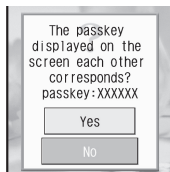
Follow these steps to accept connection requests from unpaired devices:

1 Connection request arrives



Request Window

2 Yes ➔ ●



3 Yes ➔ ●

- If the other device is a keyboard, follow onscreen instructions.

Connecting Devices Not Compliant with Bluetooth® Specification Ver. 2.1

In ●, enter the same Authorization Code as sender's ➔ ●

- Complete code entry within 30 seconds.

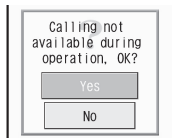
Transferring Files

Follow the steps below to exchange files with paired devices.

- For transferable files, see P.6-6.
- When requested, enter Authorization Code.

Receiving Files

1 Connection request arrives



Request Window


2 Perform subsequent operations

- To cancel transfer, press .

Subsequent Operations

One File Transfer

Yes →  → Yes → 

- If storage media confirmation appears, select media and press .

All File Transfer (Adding Files)

Yes →  → As New Items → 

All File Transfer (Overwriting Existing Files)

Yes →  → Delete All & Save →

 → Yes → 

- For Phone Book, My Details except handset phone number is overwritten as well.

Sending Files

One File Transfer

Example: Phone Book entry

1  → Select entry →  → Send Entry → 

2 Via Bluetooth → 

3 Select device →  → Transfer starts

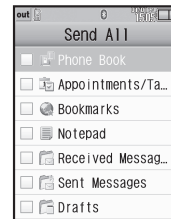
- When complete, entry search window returns.

All File Transfer

1 In Bluetooth menu, *Send All* → 



2 Select device →  → Yes → 

3 Enter Handset Code → 



4 Select item →  ( / ) → Complete selection →  → Transfer starts → 

Sending Phone Book

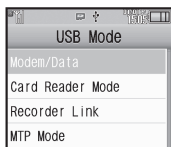
- In , Picture transfer confirmation appears; choose **Yes** or **No** and press .

Connecting PC

Accessing Memory Card

Connect handset to a PC via USB Cable to access Memory Card from the PC without removing card from handset. USB Cable may be purchased separately.

1 Connect handset to a PC via USB Cable



2 Card Reader Mode ➔

- Use PC to access Memory Card.

3 ➔ Yes ➔

Connection ends

- Disconnect USB Cable.

If Menu in 1 Does Not Appear

- Follow these steps:

➔ **Tools** ➔ ➔ **Connectivity**
➔ **USB Mode** ➔ ➔ **From 2**

- Operations on the PC may be required; if prompted, follow onscreen instructions.

Utility Software (Japanese)

For more PC-related operations, download Utility Software (including USB Cable driver) from the following URL.

Utility Software

<http://k-tai.sharp.co.jp/download/tools/utility/>

Mobile Data Communication Fees

- Using the Internet by connecting handset to PC/PDA via USB Cable or Bluetooth® may incur high charges as large-volume packet transmissions tend to occur in a short period of time.

Basics

Back up information to Memory Card, and restore to handset as needed.

Specify frequency for Auto Backup.

Auto Backup requires a subscription to S! Addressbook Back-up.

Supported Items

In manual backup, open Options menu for **Check Selection** to select multiple items for simultaneous backup.

Phone Book*	Sent Messages*
Calendar*	Drafts*
Tasks*	Templates (Messaging)
Bookmarks*	Contents Keys
Notepad*	Data Folder
Mail Groups*	User Dictionary
Received Msg.*	Used Log

*Selectable for simultaneous backup.

Backup All Items

- In addition to "Supported Items," **Backup All Items** saves the following items:
 - Settings
 - Album
 - Manage Model Type Data

Auto Backup Compatibility

- These items are not backed up:
 - Mail Groups
 - Templates (Messaging)
 - Data Folder
 - User Dictionary
 - Used Log

Precautions

- Not available if battery is low.
- Backup may fail if Memory Card memory is low.
- Some items may not be transferable; some settings may be lost, or files may not transfer properly.

Auto Delete (Auto Backup Files)

- Auto Backup saves up to three backup files for each item; when full, oldest files are deleted automatically to save new ones.

Contents Keys

- Manual backup overwrites Contents Keys in Memory Card. Perform Restore beforehand to keep previous Keys.
- In Auto Backup, Contents Keys are added to Memory Card.

Restoring Backed Up Content

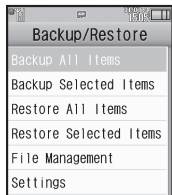
- Corresponding handset content is overwritten depending on Restore option.

Backup & Restore





Manual Backup

Follow these steps to back up selected items at once:

- 1  → **Settings** →  → 
Phone/ → **Backup/
Restore** → 





Backup/Restore Menu

- 2 **Backup Selected Items** →  → **Enter Handset Code** → 
- 3 **Yes** → 
- 4 **Select item** →  (/) → **Complete selection**


- 5  → **Yes** → 
 - To cancel, press .

- 6 **Backup complete** →  → 

Selecting Multiple Items at Once

- In 4,  → **Select option** → 
- From 5

Selecting/Canceling All Items

- In 4,  → **Check All or Uncheck All** → 

Auto Backup

Back up information to Memory Card at a specified frequency automatically.


To enable Auto Backup, set Auto Sync Settings (S! Addressbook Back-up) to **On**; Auto Backup will be performed at 2:00 AM on the same day of the week by default.

Precautions

- Auto Backup does not start when:
 - Memory Card is not inserted
 - Battery is low/dead and not being charged
 - Another function is active (end it and return to Standby)

At Auto Backup Time

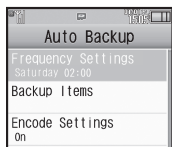
Backup starts; Information window opens upon completion.

Select **Complete Auto Save** and press  to open backup result.

Changing Settings

Follow these steps to back up once a week automatically:

- 1 In Backup/Restore menu, **Settings** → ●
- 2 **Auto Backup** → ● → Enter Handset Code → ●



Auto Backup Menu

- 3 **Frequency Settings** → ●
- 4 **Once Every Week** → ● → Select day → ● → Enter time → ●
- 5 **Backup Items** → ● → Select item (☐/☑) → Complete selection → ☑

Backing Up Once a Month

In 4, **Once Every Month** → ● → Enter date → ● → Enter time → ● → ●

Disabling Auto Backup

In 4, **Don't Auto Backup** → ●

Disabling Encoding

[Auto Backup Menu] **Encode Settings** → ● → Off → ●

Memory Card to Handset

Follow these steps to restore selected items:

- 1 In Backup/Restore menu, **Restore Selected Items** → ● → Yes → ●
- 2 Select item → ● (☐/☑) → Complete selection
- 3 ☑
• If no file list appears, skip ahead to 5.
- 4 Select file → ●
• Repeat 4 to complete selection.

5 ☑

6 **Yes** → ●

- To cancel, press ☑.

7 **Restore complete** → ● → ●

Selecting Multiple Items at Once

In 2, ☑ → Select option → ● →

From ●

Selecting/Canceling All Items

In 2, ☑ → **Check All or Uncheck All** → ●

Changing Restoration Method

After 2, select item → ☑ → **Change to Add Mode or Chg. to Overwrite Mode** → ● → From ●