Glasses-type Wearable Device

InfoLinker™

User Manual

Model No.  WUZ-01B

Read the “Safety precautions” section before start using this device and use the device correctly. In addition, keep this manual at a place where a user can use whenever necessary.
# Table of Contents

**Introduction** ..............................................03  
  - Intended use 03  
  - Users 03  
  - Service life 03  
  - Safety precautions 04  
  - Precautions for using wireless functions (*Bluetooth*, Wireless LAN) 11  
  - Product documentation 12  
  - Checking the accessories 12  

**Before Use** .................................................13  
  - Names and functions of components 13  
  - Charging the batteries 14  
  - Inserting and replacing batteries 15  

**How to Wear the Device** ...............................16  

**Basic Operations** .......................................17  
  - Examples of major operations 17  

**Turning On/Off the Power** .............................18  
  - Turning on the power 18  
  - Turning off the power 18  
  - Sleep mode 18  
  - Turning on/off the display (screen) 19  

**Home Screen** .............................................20  
  - Displayed information 20  
  - Operation procedure 21  

**Initial Applications** ....................................22  
  - Movie Player 22  
  - Image Viewer 22  
  - Camera 23  
  - CameralImages 23  
  - Record 24  
  - RecordMovies 24  
  - FunctionCheck 25  

**Config by QR (QR code reader)** ..........................29  
  - Law 29  
  - SETTING 30  
  - RMS (Remote work supporting system) 31  
  - RMSScreenShot 32  
  - ROTATE 32  

**Connection to Computer** .................................33  
  - Connecting to computer via MicroUSB cable 33  
  - Internal storage folders 34  

**QR Code Operations** ....................................35  
  - WUQR (QR code generator) 35  
  - Wireless LAN connection 36  
  - Other operations 37  

**Troubleshooting** ..........................................38  

**Frequently Asked Questions** ............................39  

**Disposal Information** ....................................41  
  - Disposal of the device and accessories 41  
  - Regarding recycling of lithium-ion batteries 41  

**Development Environment** ..............................42  

**Specifications** ..........................................43  

**Optional Parts (sold separately)** .......................44  
  - Feeding adapter 44  
  - Overglass mounter 44  

**Trademarks** ..............................................45
Introduction

Thank you very much for choosing our product, InfoLinker “WUZ-01B.”

Intended use

This product is used by attaching to the temporal part in combination with the glasses and provided neckband with intension of easing the indoor navigating and picking works and remote operations in a factory and a warehouse. Before start using this product, analyze the risks that may exist while using this product and check the safety thoroughly.

Users

Users need to understand the contents of this manual for safe and correct use of this product. We recommend that any person who corresponds to one of the following conditions refrain from using this product.

• Person who is wearing medical electric equipment such as an implanting type pacemaker or an implanting type defibrillator
• Person who has health history of photosensitivity
• Person who has a heart disease
• Person in poor physical condition
• Person with poor sleep
• Person who is tired
• Person who has influence of alcohol

Service life

3 years. This service life is expected only if you use the product properly according to this manual and the user manual.
Safety precautions

This section describes precautions to use the product in safety and to avoid putting yourself, other people, and your property at risk.

The words DANGER, WARNING, and CAUTION convey special meanings. Follow the instructions precisely while you use the product.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="DANGER" /></td>
<td>A Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.</td>
</tr>
<tr>
<td><img src="image" alt="WARNING" /></td>
<td>A Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td><img src="image" alt="CAUTION" /></td>
<td>A Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury, damage to the property.</td>
</tr>
</tbody>
</table>

### Examples of pictorial images

| ![Alert symbol](image) | Alert symbol |
| ![Symbol](image) | Symbol for “Prohibitions (Must not do).” |
| ![Symbol](image) | Symbol for “Compulsory actions (Must do).” |
Handling of InfoLinker, battery charger, battery, and AC adapter

⚠️ DANGER

⚠️ Always wear the device with the glasses.
Otherwise, an injury may cause such as by hurting the eye by the display.

⚠️ Before start using the device, confirm the safety in the surrounding environment.
While watching the images, recognizing the surrounding conditions becomes difficult. If there is any fragile object or obstacle, an injury or an accident may occur.

🚫 Do not use the device while driving a car, motor cycle, or a bicycle.
Otherwise, a traffic accident, tumbling, or falling accident may occur.

⚠️ When stopping by a place which handles the flammable gas such as a gas station, be sure to remove the battery from the device in advance. Do not charge the battery either.
Otherwise, the gas may catch a fire.

⚠️ Use of specified battery, battery charger, and AC adapter.
Using a battery, battery charger, or AC adapter other than those specified may result in varied charging results, fire, damage, explosion, or leaking.

⚠️ WARNING

🚫 Do not use the device continuously for a long time.
Use the device by taking sufficient breaks periodically.

🚫 Do not use the device while moving.
Otherwise, tumbling or traffic accident may occur.

⚠️ Do not use the device with a high volume for a long time.
Otherwise, hearing disorder may occur. Set to a proper volume.
CAUTION

Do not use, store, or charge the device in the following places.

• Hot place such as near fire or heating equipment
• Place exposed to the direct sunlight (such as inside of a vehicle on a sunny day)
• Place with abrupt temperature changes
• Place with high humidity such as near water or place where water may splash
• Dusty place

Otherwise, fire or malfunction may occur.

Do not use or store the device at a place where is near the corrosive chemical, corrosive gas, or emission of oily smoke.

Otherwise, malfunction or loss of internal data may occur.

Remove the battery when storing the device.

Otherwise, the device may get broken by leakage from the battery.

Do not dismantle, repair, or modify the device.

Otherwise, fire, burn, injury, electrical shock, or malfunction may occur. If a repair is necessary, consult the sales office.

Do not splash water or immerse in the water.

Otherwise, fire, burn, or electrical shock may occur.

If liquid such as water enters inside of the device, stop using the device and remove the battery.

Otherwise, fire, malfunction, or burn may occur.

Do not give strong force or shock, throw, or put a heavy object on the device.

Otherwise, leakage, rapture, or ignition of the battery, malfunction of the device, or fire may occur.

If the device emits smoke, strange odor or sound, or excessive heat during a use or charging, take the following measures.

During use: Remove the battery from the device.
While charging: Pull out the AC adapter cord from the plug and remove the battery from the charger.

Otherwise, the battery may rapture, and fire or burn may occur. Consult the sales office.

Do not use the device that is broken.

Otherwise, fire, burn, or electrical shock may occur. Consult the sales office.
Remove the battery from the device at a place where using the device is prohibited, such as in a hospital or on an air plane. The device may adversely affect electric devices or medical electric devices. Be sure to follow the instructions from the staff of the medical institution or the airline company. A passenger who takes prohibited actions on an air plane may get punished according to the law.

When a radio disturbance occurs in other equipment during use of this device, stop using the device.

Do not use the device if a user is wearing medical electric equipment such as an implanting type pacemaker or an implanting type defibrillator. In addition, do not use the device near such medical electric equipment. Otherwise, the medical equipment may get adversely affected by the radio wave of the device.

If any strange feeling occurs on the skin, immediately stop using the device. Otherwise, itch, irritation, or eczema may occur according to the constitution and the health condition of the user. Consult a dermatologist.

If any abnormal condition such as tiredness or discomfort occurs during a use, stop using the device.

Handling of the device

⚠️ CAUTION

Do not let a conductive foreign object (metal piece, pencil lead, etc.) contact the 4-pole mini jack, battery insertion opening, and micro USB connection terminal. In addition, do not let such foreign object enter inside the device. Otherwise, fire, burn, injury, or electrical shock may occur.

Do not leave the external connection terminal cover, battery insertion opening cover, and other covers opened. Otherwise, dust or water may enter, causing malfunctions.

Do not pull or twist with excessive force. Otherwise, malfunctions may be caused.
In case the display breaks by dropping or inside of the equipment becomes exposed, do not touch the broken display or exposed component. Otherwise, an injury or electrical shock may occur by the broken sections.

How to handle the battery charger

⚠️ WARNING

Unplug the power cord when the charger is not in use. Otherwise, fire, heat generation, electrical shock, or malfunction may occur.

⚠️ CAUTION

Do not let a conductive foreign object (metal piece, pencil lead, etc.) contact the battery charging terminals. Otherwise, fire, burn, injury, or electrical shock may occur.

In case inside of the device becomes exposed by dropping and damaging the device, do not touch the exposed component. Otherwise, an injury or electrical shock may occur by the broken sections.

Handling of batteries

⚠️ DANGER

If the liquid inside of the battery gets into an eye, immediately wash the eye with water and see a doctor. Otherwise, the eye may lose a vision.

⚠️ WARNING

Do not use a battery that is deformed by dropping, leaking, has strange odor, or swelling. Otherwise, leakage, heat generation, bursting, or ignition may occur.

Do not give a strong shock or stamp on the battery. Otherwise, leakage, heat generation, bursting, or ignition may occur.
CAUTION

Do not carry or store the battery with metal items.
Otherwise, leakage, heat generation, bursting, or ignition may occur.

If the liquid inside of the battery attach on the skin or cloth, immediately rinse with water.
Otherwise, the skin may be injured.

Do not charge a wet battery.
Otherwise, heat generation, ignition, or bursting may occur.

If charging the battery does not complete within the specified charging time, stop charging.
Otherwise, leakage, heat generation, bursting, or ignition may occur.

Handling of the AC adapter

WARNING

Do not touch the AC adapter cord while it is thundering.
Otherwise, electrical shock may occur.

CAUTION

Do not damage the cord.
Otherwise, fire or electrical shock may occur.
- Do not process the cord.
- Do not place a heavy object on the cord.
- Do not forcibly bend, twist, or pull the cord.
- Do not place the cord near the heating equipment.
When the power cord is broken, contact the sales office.

Use the AC adapter with the specified power source and the power voltage.
Otherwise, fire or malfunction may occur.
AC adapter: 100 - 240 VAC, 50/60 Hz
Cleaning the device

⚠️ WARNING

Do not use any flammable spray such as an air duster or dust spray near or inside the device.
Doing so may cause explosion or fire due to ignition of the gas.

⚠️ CAUTION

Wipe the device with a dry, soft cloth (e.g. lens cleaning cloth).
Rubbing too hard may result in scratching the display.

Clean the terminals with a dry cotton swab, etc.
Dirty terminals may result in power failure or insufficient charging of the battery.
Pay extra attention to avoid damaging the terminals during cleaning.
Precautions for using wireless functions (Bluetooth, Wireless LAN)

- Other systems and devices may operate in the same frequency range as this product. These include, but are not limited to: microwave ovens, household appliances, medical and scientific instruments, and RFID equipment used in industrial or factory production lines. Licensed and unlicensed operators such as radio stations and amateur radio may be using the same frequency range. Because of this, please adhere to the following:

  1. Prior to using this product, ensure that no other wireless devices are in the range that may cause or receive interference.

  2. Should this product interfere with another device, change locations, turn off the power, or take other action to prevent continued interference.

  3. If you have other questions or are unsure, contact your vendor.

- **Bluetooth** and Wireless LAN (IEEE802.11b/g/n) use the same frequency (2.4GHz).

- Use of this device near any **Bluetooth** or Wireless LAN supported devices may decrease communication speed or obstruct proper connection due to generated radio interferences. In such case, separate this device from the **Bluetooth** or Wireless LAN supported devices by at least 10 m, or turn OFF the wireless functions.
Product documentation

- Quick guide
  It explains the basic functions and operations of this device.
- User manual (this manual)
  It explains operations of various functions, applications, and settings.
- Compliance information
  It describes legal requests and compliance information to the related regulations.

The User manual and compliance information are available for downloading from the following web site.

http://www.westunitis.co.jp/en/

Information

- Reprinting a part of or entire section of this manual without permission is prohibited.
- Screens and illustrations used in this manual are only the images. Therefore, they may be different from actual screens or products.
- The contents of this manual are subject to be revised without a prior notice.

Checking the accessories

- Quick Guide
- InfoLinker storage case
- Neckband WUZ-NB01
- Battery (x5) WHB-001
- Battery charger WUZ-AC01
- AC adapter for battery charger
  One of the following is included.
  - GF12-US0520
  - GF12E-US0520
Before Use

Names and functions of components

- **Touch sensor**: allows for touch operation.
- **Camera**: takes pictures and video.
- **Display cover**: Protects the display.
- **Microphone**: shows the screen.
- **Display**: shows the screen.
- **Button**: shows the home screen.
- **Button**: turns on the power, turns on/off sleep mode and other modes.
- **Button**: operate differently depending on the application.
- **Button**: turns on the power, turns on/off sleep mode and other modes.
- **4-pole mini jack**: for connecting devices such as headsets or earphones.
- **microUSB port**: or connection via microUSB cable.
- **Connector**: locks the device to the neckband holder.
- **Power LED**: indicates the current status of the device.

**NOTE**
- Button and sensor functionality vary depending on the application.
- Press and hold a button means to release after pressing and holding the button for approximately 1 second.

**Voice functions**

This device is not equipped with a speaker. In order to play back the voice, connect the ear phone or a head set to the 4-pole mini jack. In addition, to have talk through the device, connect the head set.

**NOTE**
When connecting an ear phone or a head set to the 4-pole mini jack, make sure that the connected unit is fully inserted. If not, noise may be caused.
Charging the batteries

Fully charge the battery prior to first use, and recharge the battery when it is drained. Charging the battery for the first time will take approximately 2 hours.

Be careful with the battery direction.

Insert the plug into an outlet.

**NOTE**
- The LED may blink in red when a battery is inserted into the charger. If this happens, remove the battery, wait for several seconds and insert again.
- If a fully charged battery is inserted into the charger, the LED may not turn on.

<table>
<thead>
<tr>
<th>Battery charge indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charging state</td>
</tr>
<tr>
<td>No battery inserted</td>
</tr>
<tr>
<td>Charging</td>
</tr>
<tr>
<td>Charging complete</td>
</tr>
<tr>
<td>Abnormal temperature</td>
</tr>
<tr>
<td>Abnormal charge</td>
</tr>
</tbody>
</table>

**Battery Maintenance**

If the battery terminal becomes dirty, clean with a soft, dry cloth. Getting finger oil, sweat, or dust on the terminal may prevent proper charging.

**NOTE**

Do not use organic solvents (benzene, thinner, and like), acids, or alkalis.
Inserting and replacing batteries

■ Inserting method

1. Move up the switch and open the cover.

2. Raise the battery holder and insert the battery.

■ Replacement method (hot swap)

The battery can be replaced without turning off the power.

1. Hold the button \( \Box \) (the foremost button) for longer than 1 second.
   The power LED starts blinking. After a few seconds, it switches to the slow blinking state with intervals of approximately 2 seconds.

2. Remove the used battery. Then within 15 seconds, insert the charged battery.
   When the hot swapping succeeds, the power LED starts blinking in 2-second intervals again. If the hot swapping fails, the power LED turns off.

3. Press the button \( \Box \) (the foremost button).
   Resume the paused application from where it is stopped.
How to Wear the Device

Use a provided neckband.

1. Slide the device connector to insert it into the neckband holder.

2. While wearing the glasses, attach the clip to the temple of the glasses.

**Warning**

Always wear the device with the glasses. Otherwise, an injury may cause such as by hurting the eye by the display.

**Regarding clip size (Small, Medium, Large)**

Clips can be replaced to fit the width of the temples. They can be used oriented either inward or outward.

**NOTE**

• When taking off the device temporarily, detach the temples of the glasses from the clips and put the neckband around your neck.

**When wearing on the left eye**

The display can be rotated 180 degrees. See the section [ROTATE](P32) for details.
Basic Operations

The user can operate this device intuitively by using the touch sensor. When a user is wearing gloves, the touch sensor does not respond.

Examples of major operations

- **Swipe from back to front**
  - Display the applications sequentially (clockwise order) on the Home screen.
  - Display the next image
  - Play back the next video.
  - Zoom in to double the displayed image/video in Camera and Record

- **Swipe from front to back**
  - Display the applications sequentially (counterclockwise order) on the Home screen.
  - Display the previous image
  - Play back the previous video.
  - Zoom out the displayed image/video in Camera and Record

- **Two-finger swipe from back to front**
  - Zoom in to decuple the displayed image/video in Camera and Record

- **Two-finger swipe from front to back**
  - Zoom out the displayed image/video in Camera and Record

- **Single tap**
  - Auto-focus in Camera and Record

- **Double tap**
  - Start-up of the application

- **Tap and hold ... To release after pressing and holding for 1 second or more.**
  - Return the zoom factor to 0 in Camera and Record
Turning On/Off the Power

Turning on the power

Press the button (the foremost button).
The power LED turns on, and the startup screen opens on the display.

*Note that pressing and holding the button does not turn on the power.

Turning off the power

To turn off the power, remove the battery.

1. Hold the button (the foremost button) for longer than 1 second.
   The power LED starts blinking. After a few seconds, it switches to the slow blinking state with intervals of approximately 2 seconds.

2. Then remove the battery.

Sleep mode

In the sleep mode, the display turns black, which disables erroneous operations from the touch operation. In addition, the battery power can be saved by using this mode while the operation is in pause.

Hold the button (the foremost button) for longer than 1 second.
The power LED starts blinking. After a few seconds, it switches to the slow blinking state with intervals of approximately 2 seconds.
The power LED continues blinking while in the sleep mode. Pressing the button 1 (the foremost button) again releases the sleep mode.

**Turning on/off the display (screen)**

The display (screen) can be switched between on/off.

Even when the display is off, the application is continuously working. Therefore, consumption of the battery power continues. To save the power, shift to the sleep mode.

Press the button 1 (the foremost button).

The display and the power LED turn off.

Pressing the button 1 (the foremost button) again recovers the display.
Home Screen

On this screen, applications can be selected and started both by touching and by operating buttons.

Displayed information

1. W : SSID (Wi-Fi connection point)
   - When a Wi-Fi access point could not be found ... No connect
   - When Wi-Fi function is OFF ... off
2. R : RSSI (Receive signal strength indicator)
3. L : Radio signal level  MAX: 4
4. Bt : Bluetooth  ON/OFF
5. L : Remaining battery
6. S : Battery status (discharging/charging/not charging/full)
7. H : Battery health (good/overheat/voltage/dead)
8. T : Battery temperature (The last digit indicates 0.1 degrees)
9. V : mV
10. Cpu : CPU temperature (The last digit indicates 0.1 degrees) : Clock frequency
Operation procedure

■ Selecting application

Swipe from back to front on the touch panel, or press the button ④ (the backmost).

Applications are displayed in the following order.

■ Starting up the application

1. Display the application to be started using the procedure above.

2. Double tap on the touch panel, or hold the button ④ (the backmost) for longer than 1 second.
Initial Applications

Movie Player

This application plays back the movie files stored in the internal storage of the device. In order to save movie files to the internal storage, see "Connection to Computer" (P33). To play back the voice, connect the earphone or headset to the 4-pole mini jack.

Folder used : WU MOV/
Supported file formats : mp4, m4v, mov, 3gp, mp3

Operation procedure

<table>
<thead>
<tr>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play the next movie</td>
<td>Swipe from back to front. Press the button 4</td>
</tr>
<tr>
<td>Play the previous movie</td>
<td>Swipe from front to back. Press the button 3</td>
</tr>
<tr>
<td>Pause/Play</td>
<td>Single tap -</td>
</tr>
<tr>
<td>Exit the application</td>
<td>- Press the button 2</td>
</tr>
</tbody>
</table>

Image Viewer

This application displays the image files stored in the internal storage of the device. In order to save image files to the internal storage, see "Connection to Computer" (P33).

Folder used : WU_VIEWER/
Supported file formats : png, jpg, jpeg, gif, bmp

Operation procedure

<table>
<thead>
<tr>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display the next image</td>
<td>Swipe from back to front. Press the button 4</td>
</tr>
<tr>
<td>Display the previous image</td>
<td>Swipe from front to back. Press the button 3</td>
</tr>
<tr>
<td>Exit the application</td>
<td>- Press the button 2</td>
</tr>
</tbody>
</table>
Camera

This application captures still images. The captured still images will be stored in the internal storage of the device.

Folder used : WU_CAMERA/
Capture file formats : jpg
Capture size : 1600px × 1200px

Operation procedure

<table>
<thead>
<tr>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoom in*</td>
<td>Swipe from back to front.</td>
</tr>
<tr>
<td>Zoom out*</td>
<td>Swipe from front to back.</td>
</tr>
<tr>
<td>Autofocus</td>
<td>Single tap</td>
</tr>
<tr>
<td>Adjust brightness</td>
<td>-</td>
</tr>
<tr>
<td>Press the button 4</td>
<td></td>
</tr>
<tr>
<td>Brightness can be adjusted in 6 levels.</td>
<td></td>
</tr>
<tr>
<td>Capture still image</td>
<td>-</td>
</tr>
<tr>
<td>Press the button 3</td>
<td></td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
</tr>
<tr>
<td>Press the button 2</td>
<td></td>
</tr>
</tbody>
</table>

* Two-finger swipe allows for zooming with larger steps.
* Tapping and holding resets the zoom ratio to 0.

CameralImages

This application displays the still images captured in [Camera].

Folder used : WU_CAMERA/

Operation procedure

<table>
<thead>
<tr>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display the next image</td>
<td>Swipe from back to front.</td>
</tr>
<tr>
<td>Press the button 4</td>
<td></td>
</tr>
<tr>
<td>Display the previous image</td>
<td>Swipe from front to back.</td>
</tr>
<tr>
<td>Press the button 3</td>
<td></td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
</tr>
<tr>
<td>Press the button 2</td>
<td></td>
</tr>
</tbody>
</table>
Record

This application records movies. The captured movies will be stored in the internal storage of the device.

Folder used : WU_RECORD/
Record file format : mp4
Record size : 1280px × 720px
Encoder : H264
Frame rate : 20FPS

Operation procedure

<table>
<thead>
<tr>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoom in*</td>
<td>Swipe from back to front.</td>
</tr>
<tr>
<td>Zoom out*</td>
<td>Swipe from front to back.</td>
</tr>
<tr>
<td>Autofocus</td>
<td>Single tap</td>
</tr>
<tr>
<td>Adjust brightness</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Start/Stop record</td>
<td>-</td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
</tr>
</tbody>
</table>

* Two-finger swipe allows for zooming with larger steps.
* Tapping and holding resets the zoom ratio to 0.

RecordMovies

This application plays back the movies recorded in [Record].

To play back the voice, connect the earphone or headset to the 4-pole mini jack.

Folder used : WU_RECORD/

Operation procedure

<table>
<thead>
<tr>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play the next movie</td>
<td>Swipe from back to front.</td>
</tr>
<tr>
<td>Play the previous movie</td>
<td>Swipe from front to back.</td>
</tr>
<tr>
<td>Pause/Play</td>
<td>Single tap</td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
</tr>
</tbody>
</table>
**FunctionCheck**

This application checks the operation of this device, determining whether the basic functions work properly or not.

To check the voice function, connect the earphone or headset to the 4-pole mini jack.

---

**Operation procedure**

<table>
<thead>
<tr>
<th></th>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>To the next check item</td>
<td>-</td>
<td>Press the button 4</td>
</tr>
<tr>
<td>To the previous check item</td>
<td>-</td>
<td>Press the button 3</td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
<td>Press the button 2</td>
</tr>
</tbody>
</table>

---

**Screen display**

![Image: Screen display]

The check results from [1:WLAN] to [10:SCREEN BRIGHTNESS] are displayed with O and X.

Note that all items are displayed as X at the check start.

O: Check is completed without problems.
X: Check is incomplete, or a problem was found.

---

**Checking basic functions**

[Status Information]

Allows for confirming the device OS and status. This is not a check item.

![Image: Status Information]
[1: WLAN]
Checks if a Wireless LAN connection can be established properly.

**When Wireless LAN is ON:**
The check is conducted automatically. If no problem is found, the screen displays [Wireless LAN [OK]], and the check result at the top of the screen changes to 0.
If the check is not conducted automatically, hold the button 4.

**When Wireless LAN is OFF:**
The Wireless LAN function is automatically turned ON. Then hold the button 4.
If no problem is found, the screen displays [Wireless LAN [OK]], and the check result at the top of the screen changes to 0.

[2: BLUETOOTH]
Checks if a Bluetooth® connection can be established properly.

**When Bluetooth is ON:**
The check is conducted automatically. If no problem is found, the screen displays [Bluetooth [OK]], and the check result at the top of the screen changes to 0.
If the check is not conducted automatically, hold the button 4.

**When Bluetooth is OFF:**
The Bluetooth function is automatically turned ON. If no problem is found, the screen displays [Bluetooth [OK]], and the check result at the top of the screen changes to 0.
If the check is not conducted automatically, hold the button 4.

[3: TOUCH SENSOR]
Checks if the touch sensor operates properly.
Touch the touch sensor with one finger, and then two fingers. If the sensor value changes with each touch with one-finger and two-fingers, the check result at the top of the screen changes to 0.
If the value does not change, restart the device and check again.
[4: ACCELEROMETER]
Checks if acceleration is measured properly.
If the sensor value changes, the check result at the top of the screen changes to 0. If the value does not change, restart the device and check again.

[5: GYROSCOPE]
Checks if angle and angular velocity are measured properly.
If the sensor value changes, the check result at the top of the screen changes to 0. If the value does not change, restart the device and check again.

[6: MAGNETICFIELD]
Checks if magnetic field is measured properly.
If the sensor value changes, the check result at the top of the screen changes to 0. If the value does not change, restart the device and check again.

[7: CAMERA]
Checks if the camera operates properly.
The camera (barcode reader) will start up automatically.
Read a barcode or QR code.
If the data can be read properly, the check result at the top of the screen changes to 0.

[8: MICROPHONE]
Checks if the microphone operates properly.
Input any voice into the device’s microphone during the countdown.

- 0 20 30 40 50 60 70 80 9x 10x

8: MICROPHONE

MICROPHONE Check
Please enter something voice..
[[NOW RECORDING]]

Countdown

If the recording is completed properly, the check result at the top of the screen changes to 0.

NOTE • When the headset is connected, the check is conducted preferably on the headset microphone.
[9:SOUND]
Checks the recorded voice.
Connect the earphone or headset to the 4-pole mini jack. The voice recorded in [8:MICROPHONE] is played back repeatedly. If the voice is played back properly, the check result at the top of the screen changes to 0.

To check the sound quality such as clarity or noise involvement, users should check the actual sound by listening to the voice.

[10:SCREEN BRIGHTNESS]
Checks if the screen brightness can be adjusted properly.
Swipe the touch sensor. If the brightness can be changed, the check result at the top of the screen changes to 0.

Once all checks are complete, confirm that all of the check results at the top of the screen are 0.
**Config by QR (QR code reader)**

This application reads QR codes. Reading the QR codes created by the dedicated QR code generator "WUQR"(P35) allows for setting Wireless LAN connection and playing back movies.

![QR code](image)

**Operation procedure**

Starting the application automatically starts up the camera. Adjust the camera position so that the QR code fits in the screen. The reading of the QR code then starts automatically.

<table>
<thead>
<tr>
<th></th>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exit the application</strong></td>
<td>-</td>
<td>Press the button ❷</td>
</tr>
</tbody>
</table>

**Law**

This application displays the legal information on this device and the product logotype.

![Law icon](image)

**Operation procedure**

Select [Certification] through touch operation, and tap once. The screen below is then displayed.

![Certification](image)

<table>
<thead>
<tr>
<th></th>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exit the application</strong></td>
<td>-</td>
<td>Press the button ❷</td>
</tr>
</tbody>
</table>
SETTING

This application allows users to check and change the network setting, device setting, personal setting, account setting, and system setting.

NOTE: When text input is required during the settings, connect the USB converter (OTG) and connect the mouse via USB. Clicking on the text field with the mouse displays a software keyboard.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move cursor to the next</td>
<td>Swipe from back to front</td>
<td>-</td>
</tr>
<tr>
<td>Move cursor to the previous</td>
<td>Swipe from front to back</td>
<td>-</td>
</tr>
<tr>
<td>Confirm</td>
<td>Double tap</td>
<td>-</td>
</tr>
<tr>
<td>Back to the previous screen</td>
<td>-</td>
<td>Press the button 4</td>
</tr>
<tr>
<td>Move cursor to the right</td>
<td>Two-finger swipe from back to front</td>
<td>-</td>
</tr>
<tr>
<td>Move cursor to the left</td>
<td>Two-finger swipe from front to back</td>
<td>-</td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
<td>Press the button 2</td>
</tr>
</tbody>
</table>
This application facilitates the remote operations by the operator and instructor, through bidirectional communications by "Image and Voice."

To use the [RMS], license registration is required in advance.

**Using the RMS**

- To use a free trial version
  Request the free trial license from the importer in your country listed on the back cover.
  The trial version can be used free of charge for one week after issue of the license.

- To continue use after the trial period ends
  Request the full version license from the importer in your country listed on the back cover.

- For licensed customers
  The "license authorization QR code" for InfoLinker will be sent to the customers.
  Request the QR code from the following website:

## Operation procedure

<table>
<thead>
<tr>
<th></th>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the destination</td>
<td>-</td>
<td>Press the button 3</td>
</tr>
<tr>
<td>Establish connection with the destination</td>
<td>-</td>
<td>Hold the button 3</td>
</tr>
<tr>
<td>Close the connection</td>
<td>-</td>
<td>Press the button 3</td>
</tr>
<tr>
<td>Start/Stop recording</td>
<td>-</td>
<td>Hold the button 4</td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
<td>Press the button 2</td>
</tr>
</tbody>
</table>

For detailed operation procedures, please check the instructions given when the license is issued.

### RMSScreenShot

This application displays the screen shots captured in the [RMS].

Folder used: RMSTouch/

Supported file formats: png

## Operation procedure

<table>
<thead>
<tr>
<th></th>
<th>Touch operation</th>
<th>Button operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display the next image</td>
<td>Swipe from back to front.</td>
<td>Press the button 4</td>
</tr>
<tr>
<td>Display the previous image</td>
<td>Swipe from front to back.</td>
<td>Press the button 3</td>
</tr>
<tr>
<td>Exit the application</td>
<td>-</td>
<td>Press the button 2</td>
</tr>
</tbody>
</table>

### ROTATE

This application rotates the screen display by 180 degrees. Change the direction of the display according to which eye you use with the device.

## Operation procedure

Double tap on the touch panel, or hold the button 4 (the backmost) for longer than 1 second.

Or

Hold
Connection to Computer

Connecting this device with a computer via a MicroUSB cable (sold separately) allows for transferring the data in the device’s internal storage to the computer. Data backup or deletion can be performed in this status. Furthermore, by saving movie/image files in the specified initial application folders, the movie/image can be replayed/displayed on the device.

Connecting to computer via MicroUSB cable

The following are the operation systems of the computers that can be connected.

- Microsoft® Windows® 8/8.1
- Microsoft® Windows® 7
- Microsoft® Windows Vista®
- Mac OS X v10.5 or later

For Macintosh computers,
download the "Android File Transfer" from the following website and install it to the computer.
https://www.android.com/filetransfer/

1. Connect the device with the computer via a microUSB cable (when the device is ON).

If the device is connected to the computer for the first time, the device driver software is automatically installed to the computer. Wait until the installation is completed.

Once the installation is complete, this device is recognized as a portable device on the computer.

NOTE • If the InfoLinker Drivers contained in the InfoLinker development environment kit is not installed to the computer, it is impossible to install the driver properly. Even so, the device can be used continuously since users can access the internal storage via the "media transfer mode (MTP)."

2. Confirm that no data is being transferred, and remove the microUSB cable.
**Internal storage folders**

The following are the folders used in the initial applications.

<table>
<thead>
<tr>
<th>Folder</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WU_MOV</td>
<td>Stores the movie files played with <a href="P22">Movie Player</a>.</td>
</tr>
<tr>
<td>WU_VIEWER</td>
<td>Stores the image files displayed with <a href="P22">Image Viewer</a>.</td>
</tr>
<tr>
<td>WU_CAMERA</td>
<td>Stores the image files captured with <a href="P23">Camera</a>.</td>
</tr>
<tr>
<td>WU_RECORD</td>
<td>Stores the movie files captured with <a href="P24">Record</a>.</td>
</tr>
<tr>
<td>RMSTouch</td>
<td>Stores the image files captured with <a href="P31">RMS</a>.</td>
</tr>
</tbody>
</table>
QR Code Operations

Reading QR codes via this device allows for Wireless LAN connection, application startup, and other various operations.

**WUQR (QR code generator)**

This application generates QR codes. Install the application to the Android™ device (smartphone or tablet).
The WUQR can be downloaded from the website.
Read the QR code below with an Android device and access to the download site.

```
http://www.westunitis.co.jp/en/
```

Reading the QR codes generated by the WUQR through [Config by QR](P29) can easily set/start the following items.

1. Wireless LAN connection
2. Displaying website
3. Movie playback: Movie files on network
4. Movie playback: Movie files specified in the internal storage
5. Movie playback: All movie files in the specified folder in the internal storage
6. Image display: Image files in the internal storage
7. Image display: Image files specified in the internal storage
8. Image display: All image files in the specified folder in the internal storage
9. Starting up the application installed in this device
10. Installing the apk files in the internal storage
11. Installing the apk files on network
Reading the QR code generated by the WUQR using the [Config by QR](P29) allows for establishing a Wireless LAN connection.

1. Tap the [WUQR] on the Android device.
2. Select [1:WLAN settings ssid password].
   Select the item with [Back] and [Next].
3. Enter the [ssid] and [pass] of the specified Wireless LAN in the input area.
4. Tap [Make].
   The QR code is generated.
5. Read the QR code with the [Config by QR] on the device.
   When the device establishes a Wireless LAN connection properly, the ssid is displayed to the side of [W:] at the top left of the screen.

**NOTE**

- Once the QR code is generated by tapping [Make], the data entered in [ssid] and [pass] are saved to the device. To delete the data, tap [Default] - [Make].

- The device may be unable to establish connection with the access point that has been set to the stealth mode. In such case, cancel the stealth mode temporarily, or complete the Wireless LAN setting through [SETTING]. To set VPN or fixed IP, it is also required to perform the Wireless LAN setting via [Setting].
Other operations

Reading the QR code generated by the WUQR using the [Config by QR](P29) allows for browsing websites, movie and images files on the network, as well as starting up the applications.

1. Tap the [WUQR] on the Android device.
2. Select the item with [Back] and [Next].
3. If necessary, enter the URL of the website or the path to the movie files to be browsed in the internal storage.

4. Tap [Make]. The QR code is displayed.

5. Read the QR code with the [Config by QR] on the device.

**NOTE** • Once the QR code is generated by tapping [Make], the entered URL or path is saved to the device. To reset the entry to the sample address, tap [Default]-[Make].
# Troubleshooting

Before requesting repair, check the following items. If the problem still persists, please consult your vendor.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The device cannot be turned ON.</td>
<td>Check if the screen is displayed by pressing the button ❶. If the screen is not displayed, replace the battery with one fully charged, and press the button ❶.</td>
</tr>
<tr>
<td>The screen is not displayed when the power is ON.</td>
<td>The display screen may be turned OFF. Press the button ❶.</td>
</tr>
<tr>
<td>The battery does not last long.</td>
<td>Replace the battery with one fully charged.</td>
</tr>
<tr>
<td>Unable to connect to Wireless LAN or Bluetooth</td>
<td>Holding the button ❸ (for longer than 3 seconds) in the home screen refreshes the device. (Wireless LAN and Bluetooth are turned ON.)</td>
</tr>
<tr>
<td>The lamp on the battery charger blinks red.</td>
<td>An abnormal temperature has been detected. Remove the battery from the charger, wait for a while, and insert it to the charger again.</td>
</tr>
<tr>
<td>The battery charge does not complete.</td>
<td>Lithium ion battery has a service life. Stop using the battery and replace it with a new one.</td>
</tr>
<tr>
<td>The battery hours is getting shorter.</td>
<td>Lithium ion battery has a service life. Replace the battery when the usable time gets shorter.</td>
</tr>
<tr>
<td>Question</td>
<td>Answer</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Tell me how to connect to the internet.</td>
<td>Reading QR codes allows for connecting a Wireless LAN. For details, see &quot;QR Code Operations&quot;(P35).</td>
</tr>
<tr>
<td>How do I enter characters?</td>
<td>Connect a USB convertor (OTG) to the device, and connect the mouse via USB. By clicking on the input area on the display (e.g. browser address bar), users can enter characters using the mouse on the software keyboard.</td>
</tr>
<tr>
<td>Is the camera equipped with a shake correction function?</td>
<td>No shake correction function is provided.</td>
</tr>
<tr>
<td>Is it possible to use the device for long period of time without replacing battery?</td>
<td>The device can be used for long period of time with the feeding adapter option (sold separately). Even so, it is recommended to take a 15 minute break each hour since staring at the screen for long period causes fatigue.</td>
</tr>
<tr>
<td>I’d like to wear the device on my left side.</td>
<td>The display can be rotated 180 degrees with the [ROTATE] application. For details, see <a href="P32">ROTATE</a>.</td>
</tr>
</tbody>
</table>
The following items are the FAQs for the administrators.  
Please read through the description before inquiry.

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
</table>
| I'd like to upgrade the firmware.                                        | There are two ways for upgrade. Upgrading via "Adbinput"  
  Download the InfoLinker development environment kit (P41) and install the "Adbinput" to the computer. For details, read the "infoLinker_ReadmeJp" contained in the InfoLinker development environment kit.  
  • Request to WESTUNITIS (charged)  
  Request an estimate from the WESTUNITIS website.                           |
| I'd like to check the firmware version.                                  | It can be checked in [Status Information] of the [FunctionCheck](P25).                                                                                                                                 |
| I'd like to install the apps on Google Play or those developed independently. | There are two ways for installing apk files.  
  • Installation via "Adbinput"  
  Download the InfoLinker development environment kit (P41) and refer to the "adbinput_ReadmeJp" contained in "Adbinput."  
  • Installation via "WUQR"  
  For details, see "QR Code Operations"(P35).                                                                                     |
| I'd like to develop applications that can be used on InfoLinker. Is there any authorized or specified developer? | There is no specified developer (as of Jan 2016). WESTUNITIS is a company that mainly develops systems and software.  
For consulting on wearable systems in general and the software development, please make a request from our website. |
Disposal Information

Disposal of the device and accessories
Disposal may be regulated in your community due to environmental considerations. Please dispose them in accordance with your company rules in line with the local laws.

Regarding recycling of lithium-ion batteries
Lithium-ion batteries can be recycled. Please recycle them in accordance with your company rules in line with the local laws.
Development Environment

The entire set of the development environment for this device is provided on our web site. When setting the device or customizing the applications, confirm the user policy first. Then download the necessary sources from the following web site. Note that we do not support or guarantee the safety of files or applications developed using this environment. Also note that the environment specifications may be changed or deleted without notice. Use at your own risk.

Development Environment
http://www.westunitis.co.jp/en/

■ InfoLinker development environment kit contents

- InfoLinker Development.txt (Explanatory material regarding the development environment)
- Android Development Environment (provided by Google) (URL only)
- InfoLinker Drivers
- WUQR (InfoLinker QR Code creation application) (For Windows or Mac)*
- AdbInput (InfoLinker development support application for Windows®)
- InfoLinkerSamples (Sample sources)

* For details on the Android app "WUQR," see "QR Code Operations"(P35).

■ HOW TO RESTORE TO FACTORY SETTINGS

AdbInput (InfoLinker development support application for Windows®) allows users to restore the device to its factory settings.

To install the AdbInput to the computer, read through the "infoLinker_ReadmeJp" contained in the InfoLinker development environment kit.
### Specifications

#### Device

<table>
<thead>
<tr>
<th>Model No.</th>
<th>WUZ-01B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate weight</td>
<td>50g</td>
</tr>
<tr>
<td>Resolution</td>
<td>WQVGA (428×240)</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16 ： 9</td>
</tr>
<tr>
<td>Field of view (approximate)</td>
<td>14 degrees</td>
</tr>
<tr>
<td>CPU</td>
<td>TI OMAP 4470 dual-core MAX1.5GHz</td>
</tr>
<tr>
<td>OS</td>
<td>Android 4.2.2</td>
</tr>
<tr>
<td>RAM (main memory)</td>
<td>1GB</td>
</tr>
<tr>
<td>ROM (user memory)</td>
<td>8GB</td>
</tr>
<tr>
<td>Sensor</td>
<td>3-axis accelerometer, 3-axis gyro, 3-axis magnetic</td>
</tr>
<tr>
<td>Camera resolution</td>
<td>1992 x 1216 effective pixels</td>
</tr>
<tr>
<td>Microphone</td>
<td>16bit Monaural microphone</td>
</tr>
<tr>
<td>Voice input / output</td>
<td>4-pole mini jack</td>
</tr>
</tbody>
</table>

*Bluetooth*  

- Bluetooth 3.0 (A2DP / AVRCP / ANP / PASP / TIP / SPP / ICP / HFP / HiD)
- Supported frequency band: 2402MHz-2480MHz
- Max. output: 6.3mW
- BLE mode is not supported.

#### Wireless LAN

- IEEE 802.11 a/b/g/n
- Supported frequency band: 2412MHz-2452MHz, 5150MHz-5250MHz, 5250MHz-5350MHz
- Max. output: 7.9mW

#### USB port

- Micro-B

#### Usage/Storage environment

- (Including accessories) Temperature: 5 - 35°C, Humidity: 10 - 80% (no dew condensation)

#### Battery

<table>
<thead>
<tr>
<th>Model No.</th>
<th>WHB-001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>Li-ion polymer</td>
</tr>
<tr>
<td>Battery life</td>
<td>Approximately 1 hour * actual life will vary depending on the application</td>
</tr>
<tr>
<td>Battery voltage / power</td>
<td>DC 3.7V / 1.1Wh</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>300mAh</td>
</tr>
</tbody>
</table>

#### AC adapter for battery charger

<table>
<thead>
<tr>
<th>Model No.</th>
<th>GF12-US0520, GF12E-US0520</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated input</td>
<td>AC 100-240V, 50/60Hz</td>
</tr>
<tr>
<td>Rated output</td>
<td>DC5V, 2.0A</td>
</tr>
</tbody>
</table>

#### Battery charger

<table>
<thead>
<tr>
<th>Model No.</th>
<th>WUZ-AC01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated input</td>
<td>DC5V, 2.0A</td>
</tr>
<tr>
<td>Rated output</td>
<td>DC4.2V, 0.75A (When 5 batteries are charged)</td>
</tr>
</tbody>
</table>

#### Optional Parts (sold separately)

| Feeding adapter | Available with compatible power supplies (Rated output: DC5V, 2.0A) |

* Can be fitted to either of the right eye or the left eye
* Battery replacement is possible without reboot (hot swap)
* Product specifications may change without notice.
Optional Parts (sold separately)

- Feeding adapter
  WUZ-DB01
- Overglass mounter
  WUZ-OG01
- Headsets
  WUZ-HS01

Feeding adapter

Remove the lid of the cover while paying attention not to pinch the feeding adapter cable. Insert the feeding adapter and connect the USB terminal to the mobile battery, etc.

* More than 5V /1A are required for the output of the mobile battery.

Overglass mounter

Slide the device connector to insert it into the overglass mounter holder, as shown below.
Trademarks

• InfoLinker is a registered trademark of WESTUNITIS CO., LTD.
• QR codes are registered trademarks of Denso Wave Incorporated.
• The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by WESTUNITIS CO., LTD. is under license.
• Microsoft®, Windows®, Windows Vista® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
• Google and Android are trademarks of Google Inc.
• Mac, OS X are trademarks of Apple Inc., registered in the U.S. and other countries.
• All rights not specified in this manual belong to their owners.
Warranty information

Please consult either of the following importers.

Importer

• RYOSHO TECHNO SINGAPORE PRIVATE LIMITED
  491B River Valley Road #11-01 Valley Point Singapore 248373
  TEL: +65-6473-7118
  FAX: +65-6479-8286

• RYOSHO (THAILAND) COMPANY, LIMITED
  Unit 1507 Empire Tower 15th Floor, 1 South Sathorn Road Yannawa, -
  Sathorn, Bangkok 10120 Thailand
  TEL: +66-2-670-0385
  FAX: +66-2-670-0389

• RYOSHO U.S.A., Inc. SAN JOSE HEADQUARTERS
  2580 N.First Street, Suite 230, San Jose, CA 95131 U.S.A.
  TEL: +1-408-474-7777
  FAX: +1-408-474-7722

• RYOSHO U.S.A., Inc. ATLANTA BRANCH
  3555 Koger Boulevard, Suite 320 Duluth, GA 30096, U.S.A.
  TEL: +1-770-242-0606
  FAX: +1-770-242-0372

• RYOSHO U.S.A., Inc. INDIANAPOLIS BRANCH
  8425 Woodfield Crossing Boulevard, Suite 100, Indianapolis, IN 46240 U.S.A.
  TEL: +1-317-469-4848

• Ryosho Europe GmbH
  Mainzer Landstrasse 46, 60325 Frankfurt am Main, Germany
  TEL: +49-69-7958390-0
  FAX: +49-69-7958390-29

Manufacturer
WESTUNITIS CO., LTD
29F Grand Front Osaka Tower-A 4-20 Ofukacho,Kita-ku,Osaka,Japan
e-mail : contact@westunitis.co.jp
web : http://www.westunitis.co.jp

Ver.1.1.1

WUUM111-01B-EN-US

1st Edition 06.27.2016