

Thank you for purchasing BluetoothBOX, DTW-DL01.

Please read this document thoroughly for proper operation and in order to get the greatest benefit from the product.

## OVERVIEW

Wireless adapter for Levelnic (DL-S3 Series, DL-m3 Series, DL-m3LS, DL-D3,DL-S3L).

※ This adapter requires a standard USB Bluetooth Adapter (Bluetooth 4.0 or higher,) purchased separately.

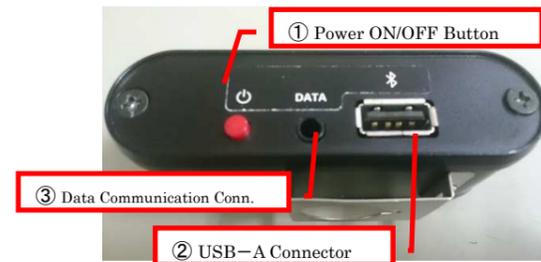
## FEATURES

- Can communicate with wide range of Bluetooth capable devices.
- Accepts a standard USB Bluetooth adapter, available worldwide.

## PART IDENTIFICATION

### ① Power ON/OFF Button (Red)

- When status LED is off, a short press will turn ON power.
- When status LED is on, a short press will turn OFF power.
- Hold down the Pairing Button and press Power Button at same time to enter pairing (discovery) mode.



### ② USB-A Connector (Bluetooth icon)

Customer supplied USB Bluetooth adapter plugs in here.

Do not use to connect other USB devices.

※ For full communication distance capability, the PC's Bluetooth interface must also be Class 1.

### ③ Data communication connector ("DATA")

Connects to the Levelnic with supplied Mini-plug Communication Cable.

### ④ Pairing Button ("PAIRING")

Hold down the Pairing Button (using a thin tool) and press the Power Button at the same time to enter pairing (discovery) mode.

### ⑤ Micro-USB connector ("CHARGE")

Connects to the included AC-USB charger and Charging Cable, or connect to PC to charge the device.

※ Do not use to connect other USB devices.

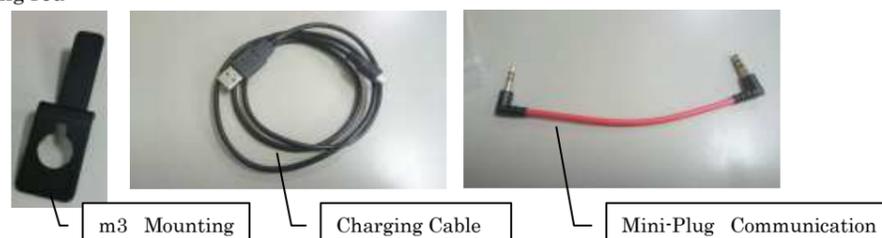
### ⑥ Charging LED (Power icon)

LED on when charging; goes off when complete.

### ⑦ Status LED

Power ON: LED=Red, communicating: LED=Green, Paring: LED=Blinking green, Pairing complete: LED=Blue,

Voltage low: LED=Blinking red



## MOUNTING

1. Install a standard USB Bluetooth adapter by plugging it into the USB-A connector of the adapter.

2. Mount the wireless adapter onto the Levelnic.

- For Levelnic S3,

Loosen the battery case knob slightly and slide the Mounting Plate (mounted on the Wireless Adapter) over the screw as shown at right (Image 1).Image 2 shows the wireless adapter installed on the Levelnic.

- For Levelnic m3,

Loosen the battery case knob slightly and install the m3 Mounting Bracket and re-tighten the knob.

Slide the Mounting Plate (mounted on the Wireless Adapter) over the Bracket so it goes into the Slotted Hole in the Plate.

※ Slotted Hole can be seen at the top of the Plate in Image 1.

3. Plug the Mini-plug Communication Cable into the Mini-plug connectors at each end.

Image 1



Image 2



## PAIRING

- Turn on the communicating PC and enable the Bluetooth interface.

※For a PC which does not have a wireless interface, please provide a standard Bluetooth 3.0 adapter and connect it to the PC.

※Do not install the Bluetooth drivers that come with the Bluetooth adapter, it works with the standard Windows drivers.

※On the communicating PC, Open the Device Manager Window, and under "Bluetooth Radios", confirm that "Generic Bluetooth Radio", and "Microsoft Bluetooth Enumerator" are present.



※How to change to the Windows standard driver

1. Right-click on the "CSR Bluetooth Chip" (the device name may be different) in Device Manager.
2. Select "Update Driver Software"
3. Click "Browse my computer for driver software"
4. Select "Let me pick from a list of device drivers on my computer"
5. Check the "Show compatible hardware" check-box, and select "Generic Bluetooth Adapter", then click "Next"

- On the Wireless Adapter, hold down the Pairing Button and press the Power Button to enter pairing mode. (Status LED will blink green)

- Have the communicating PC or Tablet search for available Bluetooth devices. (This procedure varies depending on the computer. Please refer to the instruction manual for the PC.)

- Select "SKDL01" from the detected devices and begin pairing.



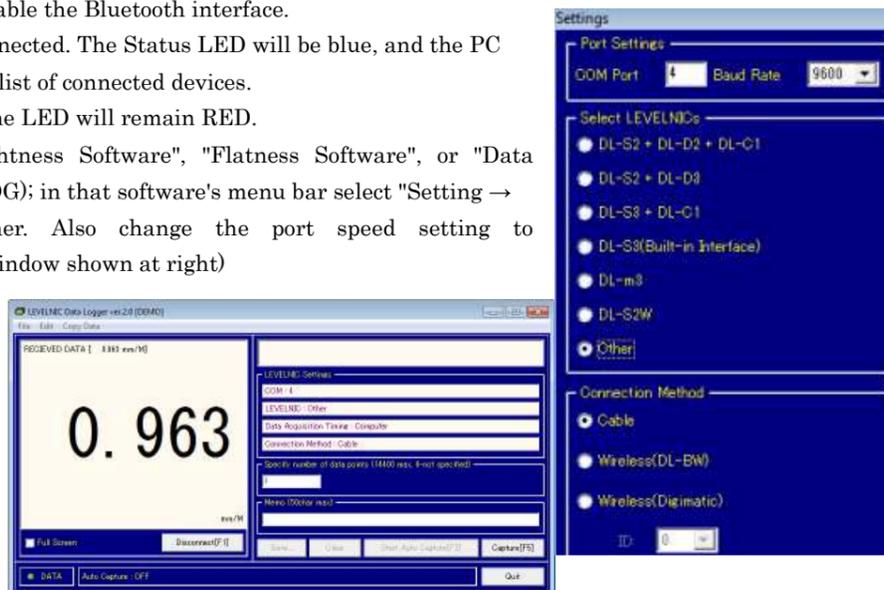
※ The paring code dialogue window will be displayed; please select "Yes" regardless of number shown. (For Windows XP, please enter "0000".)

(You will be unable to connect if you you select "The device is not displaying a code")

- When pairing is complete, the Status LED will be blue.

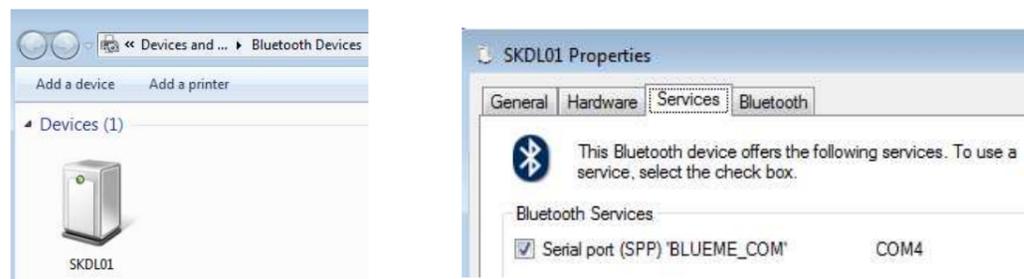
## ■TRANSMITTING DATA

- Turn on the Computer and enable the Bluetooth interface.
- Confirm that the device is connected. The Status LED will be blue, and the PC will list the "SKDL01" on the list of connected devices.
- ※ The next time it is started the LED will remain RED.
- When using optional "Straightness Software", "Flatness Software", or "Data Recording Software", (LEVELOG); in that software's menu bar select "Setting → "Select LEVELNICs" - Other. Also change the port speed setting to "9600"(※LEVELOG settings window shown at right)
- For instructions on how to use optional software, please refer to the instruction manual supplied with the software.
- ※ For some software versions, there will be an option to select a connection method of "(Wireless) BluetoothBOX".

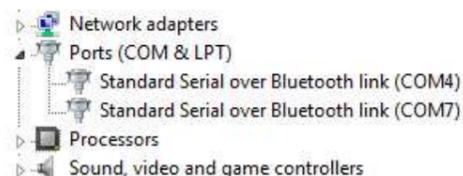


## ■CHECKING THE COM PORT

- From the Bluetooth device screen, right click on "SKDL 01" and select properties.
- Under the "Services" tab, the COM port is displayed.  
If the box is not checked, it can not communicate so please put a check in the box.



- When opening the device manager, two COM ports are displayed as shown below.
- Only one of the COM ports can be connected - if you know which is which, use the outgoing port. If you do not know, try one COM port number, then the other.



## ■AUTO OFF

If inactive for 20 minutes, the power will turn OFF. Please press the Power Button to turn back ON. If battery voltage drops below a certain level, the Status LED will blink Red. As voltage continues to drop the adapter will automatically turn OFF.

## ■AFTER USE CARE · STORAGE

- Storage** Keep in the Storage Case, in a moderate temperatures (0°C~40°C) and out of direct sunlight.
- Battery maintenance** If not used for a long period, please maintain the battery by charging to 50% capacity every three months.

## ■Troubleshooting

Problem	Cause	Solution
Will not pair / connect	<ul style="list-style-type: none"> <li>① A USB Bluetooth adapter is not plugged in.</li> <li>② The settings on the PC and the Wireless adapter may not match.</li> </ul>	<ul style="list-style-type: none"> <li>① Please install a USB Bluetooth adapter. (Do not install the software drivers which come with it)</li> <li>② Please try the following: <ul style="list-style-type: none"> <li>• Delete the device "SKDL01" in the PC's Bluetooth device list.</li> <li>• Remove and replace the PC USB Bluetooth adapter</li> <li>• Reboot the PC</li> </ul> </li> <li>※ After pairing, please try to connect again after the blue Status LED goes off.</li> </ul>
Data does not transmit	<ul style="list-style-type: none"> <li>① Levelnic data does not display.</li> <li>② Bluetooth connection error.</li> <li>③ Software communication error.</li> <li>④ COM port is incorrect.</li> <li>⑤ Mini-plug Cable is not pushed all the way into the connectors.</li> </ul>	<ul style="list-style-type: none"> <li>① Please confirm the state of the Levelnic and set to output data.</li> <li>② Make sure the device is within Bluetooth range, and redo the pairing if necessary.</li> <li>③ Close and restart the communication software. Turn the adapter power off and then on again.</li> <li>④ The PC should list two Bluetooth ports, (one incoming and one outgoing.) The wrong one may be chosen, please try the other one.</li> <li>⑤ Make sure the connectors are fully seated.</li> </ul>

## ■Specification

Model	: DTW-DL01
Wireless Protocol	: Bluetooth 3.0or later (SPP profile compatible)
Input	: Levelnic RS-232C signal (proprietary)
Output	: SPP profile compliant
Power	: Lithium Polymer Battery (900mAh)
Continuous on time	: 7 hours
charge time	: 120 minutes
Dimensions	: 82(L)×37(W)×24(H)mm
Weight	: 80g (Including battery)
Package contents	: Main unit (×1), Charging Cable (1m, ×1), Mini-plug Cable (×1), m3 Mounting Bracket (×1), Instruction Manual (×1)

## ■Notes

For best performance, and in order to keep the adapter in good condition for long service, please read and follow these instructions.

- Avoid using where the device will be subject to the following conditions:
  - Dirty or dusty locations, or exposed to direct sunlight
  - Exposed to acids, alkali solutions, organic solvents, oils, or water.
  - Equipment which creates sparks or electric discharge, or other locations which require high electric shielding.
  - Near equipment which produces strong electromagnetic fields, such as high voltage cables, or broadcasting facilities.
- Clean only with dry cloth slightly moistened with a mild detergent or alcohol. Do not use any organic solvents.
- Do not disassemble or modify.
- Do not send data while charging.

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