

TMA-6000 and TMA-6000U

Wireless Adapter Connection Instruction

Introduction

Thank you for purchasing this product.

This manual explains the features of this product in addition to its operation, system configuration, specifications, etc. Please read this manual carefully so as to ensure proper operation of this product. Should any problems arise during use, please document it carefully for purposes of reproduction by our support team. The content of this manual may be changed without notice. Please check our website for regular updates

Download Information

Please access the following URL to download documents related to this product.

<http://www.tohken.co.jp/DL/>

- 1- Operational Manual
- 2- TMA-6000 and TMA-6000U Wireless Adapter Connection Instruction

Safety Notices



**DO NOT
DISASSEMBLE**

Do not disassemble this product as this will void the warranty and lead to failure or accident.



Follow

Please observe the warnings and notes for PCs used with this product.



Disconnect

Immediately stop use if smoke, strange odors or noise are produced by the product.

Continuing operation as is risks fire or electrocution.



CAUTION

RS232C model needs external AC adapter (please see "Options", there is a recommended model). With AC adapters not recommended, errors in the unit's performance may be occurred. Also if electrical specifications of AC adapter are not match to the unit, defects on the unit or serious trouble may be occurred

Trademarks

Bluetooth is a registered trademark of Bluetooth SIG. Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

Cautions of handling



CAUTION

This product has a memory backup function for the settings. This backup can not guaranteed if repair, refurbishment, upgrade, etc. are performed on this Image Reader.



CAUTION

Avoid using or storing this product in direct sunlight or at temperature or humidity outside the product specifications.



CAUTION

Do not expose the unit to water, water vapor, oil, etc.



CAUTION

This unit may be damaged in environments with corrosive gas.



CAUTION

This is a high-precision optical device. Avoid shocking the product such as fall.



This unit is intended for use with general electronics devices such as personal computers, office automation equipment, measurement equipment, industrial robots, AV equipment etc. Take suitable actions at the customer when used in units or systems related to the control and safety of transport devices (cars, trains, airplanes), traffic right, gas leak sensors or any type of safety equipment. Never use in applications requiring extremely high reliability such as satellites, nuclear power equipment, undersea relays, or medical equipment directly involving human lives.

The frequency band of this unit (IEEE802.15.1) is also applied in integrated wireless stations used by other industrial, scientific or medical instruments like microwave ranges (ISM band) (wireless stations requiring licensing), as well as special low-power wireless devices (not requiring a licensing), and amateur radio stations (requiring licensing).

To avoid cross talk, please follow the following instruction.

1. Check that there are no integrated wireless stations for identification of mobile devices, low-power wireless stations as well as special wireless stations and amateur radio stations nearby.
2. If this device should somehow exert adverse electrical interference on integrated wireless stations for identification of mobile devices, immediately contact our sales department in order to discuss actions for avoiding cross-talk (for example, the installation of partitions, etc.), having changed the operating frequency or stopped the generation of the electromagnetic waves.
3. In addition, immediately contact our sales department if problems should arise where the device exerts adverse electrical interference on low-power wireless stations for identification of mobile devices, or amateur wireless stations.



Device Usage and storage location

Do not use/store this unit in the following locations. Use in the following locations may result in electrocution, fire, or malfunction, and may cause surrounding devices to malfunction.

- Where there is a great deal of static electricity, dust, or humidity
- Locations that exceed the temperature range (Usage: 0~40°C, Storage: -20~60°C) or the Humidity range (35~85%RH) (marshes, etc.)
- Locations exposed to direct sunlight (car dashboards, etc.)
- Locations around fire or hot air, etc.
- Adjacent to chemicals, etc.
- Near HVAC equipment
- At locations at risk for exposure to water drops, electrical sparks, etc.
- Locations generating a strong magnetic field
- Near TVs, radios, cordless telephones, etc.
- Inside medical facilities such as hospitals
- Near medical electronics such as hearing aids, pacemakers, etc.
- Near automatic control equipment such as fire alarms, automatic doors, etc.

Long term storage

When storing this unit, be sure to avoid locations where there is vibration, dust, high humidity, low temperature, high temperature or direct sunshine.

Wireless Device

- This unit is wireless device using a frequency in the 2.4GHz band
- No license, registration and/or contract is needed to use this unit.

Unpacking the product

After opening the shipping package containing the THIR-6000, take the following steps:

- 1- Check for damage that might occur during the shipping process. Report the damage immediately to the carrier who delivered the shipment.
- 2- Save the shipping container for later storage or shipping.
- 3- Make sure everything ordered is present.

- List of components

Components	Qty
TMA-6000 or TMA-6000U (Including the interface cable)	1 set
Connection ID label (spare)	1 sheet
Rubber foot	4 pieces
TMA-6000 and TMA-6000U Wireless Adapter Connection Instruction	1 copy

- Options

AC Power Adaptor (Optional): If purchasing separately, select an adaptor with output DC5V +/- 5% range and more than 7W. Please confirm polarity and DC plug type as below.

Polarity: 

DC plug type: EIAJ RC5320A Voltage Segment 2

Overview

Though TMA-6000/6000U, THIR-6000B series can establish wireless connection with host PC.

< Name of parts >

LED indicator(communication) LED indicator (Power)

Green: Connect Red: Power ON



Connection ID label

< Functions >

• LED indicator (Communication)

Indicate the connection status between THIR-6000B series and TMA-6000

Green : Connected

OFF : Disconnected

• LED indicator (Power)

Indicate the power status of TMA-6000.

Red : Power ON

OFF : Power OFF

• Connection ID label

To read this barcode by THIR-6000B series establishes wireless connection between the scanner and the adapter

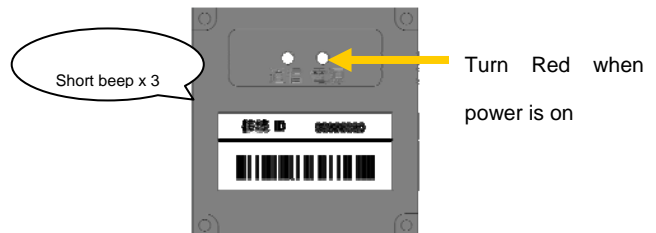
Power and Communication

< Power >

When the power is on, the LED indicator turns red and TMA-6000 shortly beeps 3 times. The ways how to turn on the power depend on type of interface cable.

- **RS-232C type** : Plug AC adaptor to DC jack.
- **USB type** : Insert the USB connector to host PC's USB port.

To turn off, please plug off the AC adaptor (RS-232C type) or plug off the USB connector from the USB port (USB type).



< Communication >

• RS-232C type

Plug in the RS-232C connector of this unit to host PC's RS-232C port, then select the COM port number on the host PC and configure the communication settings as "Baud rate 9600bps, Data length 8bits, none parity, 1 stop bit".

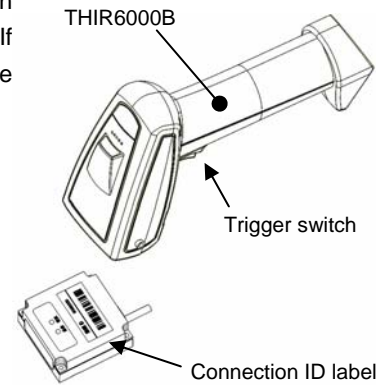
• USB type

Plug in the USB connector of this unit to host PC's USB port, then the host PC (Windows 2000 or XP) recognize this unit as a HID (human interface device) which can input data as if it is input through keyboard.

Establish the connection and disconnect

< Establish the connection >

Read the Connection ID label placed on this unit by THIR-6000B, then THIR-6000B can establish the connection to the host PC through this unit. If the connection is correctly established, this unit shortly beeps once and the LED indicator turns to green.



* To establish the connection takes 3 to 5 seconds.

< Check the connection >

• RS-232C Type

By using communication software like "Hyper Terminal", configure and verify the connection.

After configuring the communication settings, read the barcode below by the THIR-6000B and check if the terminal software can receive the data (ABC123).



• USB Type

On the host PC, open an application which has text input function (e.g. Notepad, MS Word, MS Excel etc.), put the cursor into the input area then read the barcode below by the THIR-6000B and check if the application can receive the data (ABC123).



A B C 1 2 3

※TMA-6000U can not send full width character and half width kana to host PC

< Disconnect >

To read the following barcode disconnect the wireless connection.



Disconnect

Others

< Connection ID label >

THIR-6000B does not read any barcodes within 3 to 4 seconds after it reads Connection ID label.

< Reconnect >

If THIR-6000B is out of the range of the wireless communication, or turning off TMA-6000's power used to establish the wireless connection, the THIR-6000B starts trying to reconnect. If the connection is not established in 1 minute, the THIR-6000B stops trying to reconnect.

Pressing the trigger switch makes the THIR-6000B try to reconnect again.

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