



iCT H6732A-R Multi Function ToolBox Installation Guide

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iCT H6732A-R Multi Function ToolBox



Introduction

Overview

- MTB(Multi-function ToolBox) is a total solution for ICT product maintenance. The portable programmer- MTB, presents data in a large LCM making product maintenance easily and fast. MTB is high convenience that could store several firmware at the same time.
- Powerful multi-functions include programmer, changer operation, IrDA download and sensor calibration.
- The all-in-one design meets all requirements form the market.

Feature

- **Multi-function:** Firmware download, Coin Changer operational setting and sensor calibration.
- Support Coin Changer operational settings, built-in 9 options of operation parameter, effective update function and read audit data
- **High convenience:** storage of several firmware at one time.
- Built-in memory and Micro-SD Card slot for large data storage.
- One multi-purpose cable for different ICT products.
- Chargeable battery and power-saving design.
- Large screen to show information.
- Friendly user interface.
- Easy to carry.

Specification

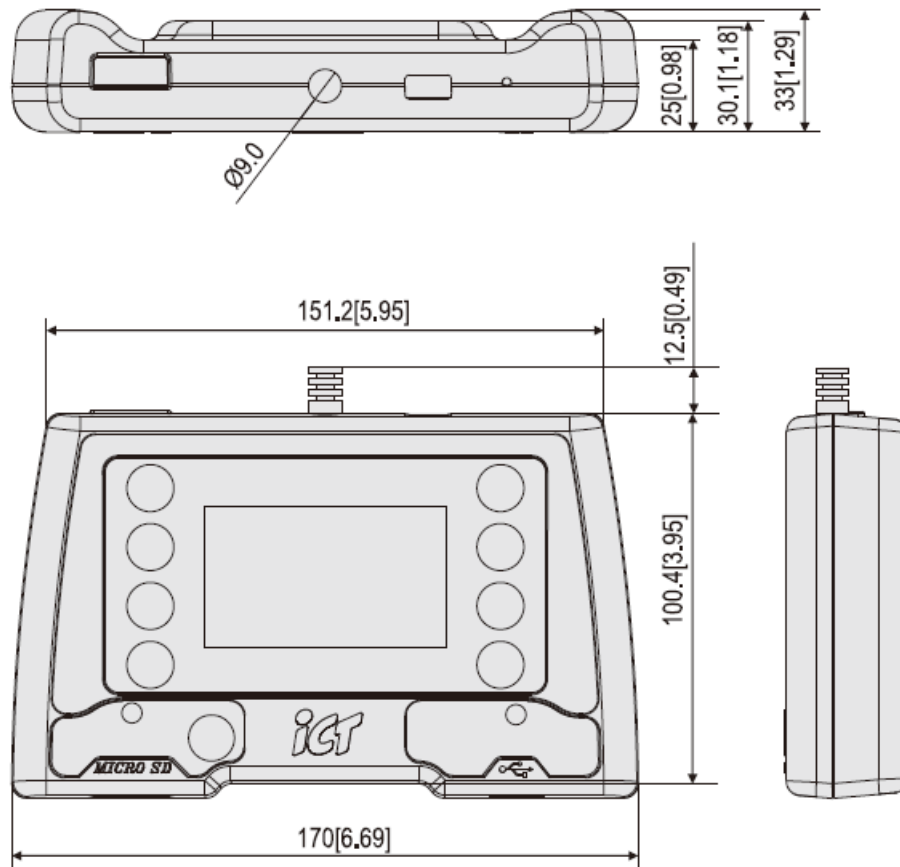
Power Consumption

- **Standby** 3.7V, 350 mA, 1.30W
- **Operation** 3.7V, 370 mA, 1.40W
- **Maximum** 3.7V, 2 A, 7.40W

Operation environment

- **Operation Temperature** – 5~50°C
- **Storage Temperature** – 20~70°C
- **Humidity** 85% (no condensation)
- **Battery in charge Temperature** 0~45°C
- **Weight** Approx. 288.5g

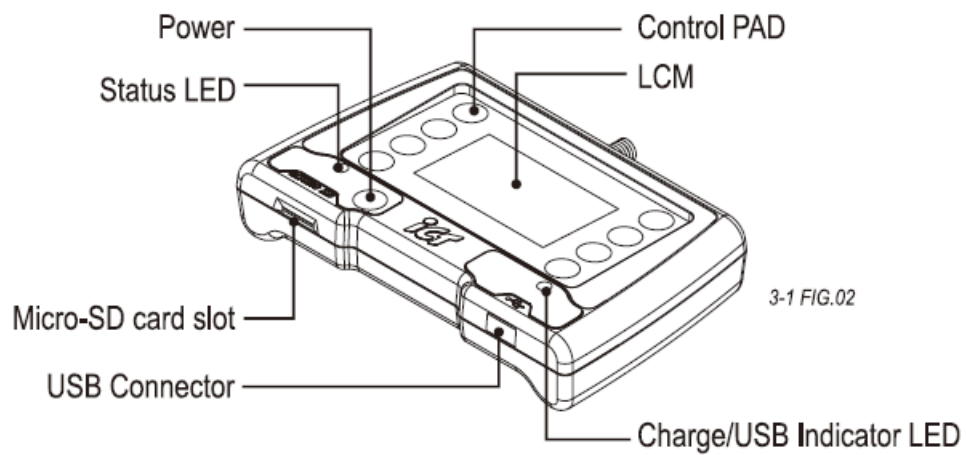
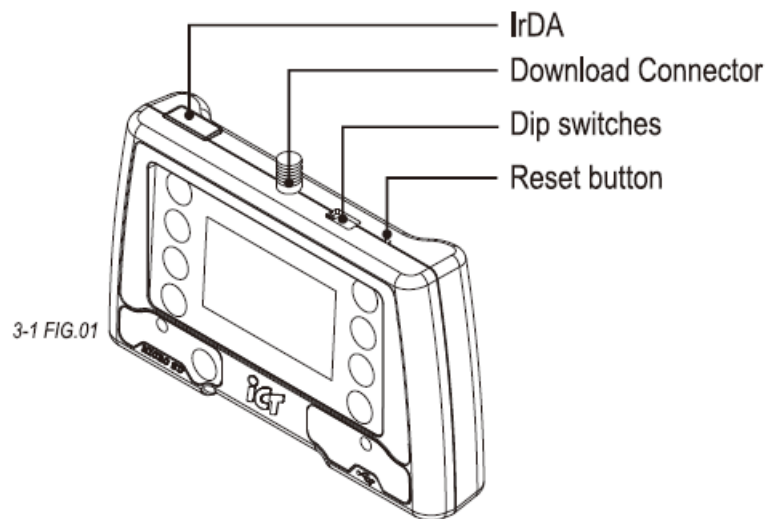
Dimension



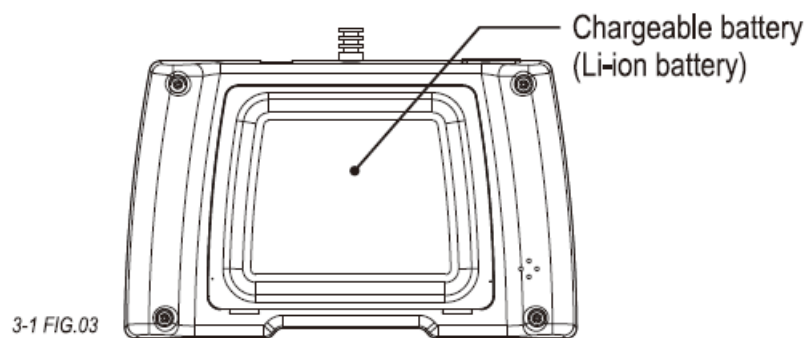
Unit:mm[inch]

3 FIG.01

Components



The reverse side



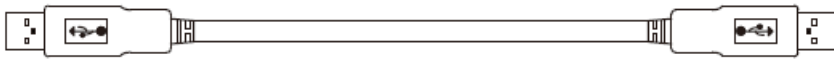
Installation

Harnesses Application


Model	Usage	Harnesses	Page
Bill Acceptor: A / V series, BR2300, BS7, E77, Envy series, K77, L series, LV77 series, LX7, NK series, NBA, NE77, P series, PA7, PL77, S series, S7ER, S7A2, TAO Light, TAO-AN, V7E, V77E, V7P, XBA, X7P. Coin Changer: CC6100 CA: UCA, SCA. Others: CVD, CSD, GP58 CR/CA, Mini hopper.	Charge Battery	WEL-RHP57	6
	Download FW & Data Communication	WEL-RSB11	7
XBA	Download FW & Data Communication & Charge Battery	WEL-RHP57	6

Interface	Used Voltage	Usage
USB	3.3V/5V	Download FW & Data Communication & Charge Battery

WEL-RHP57




USB-A-TYPE

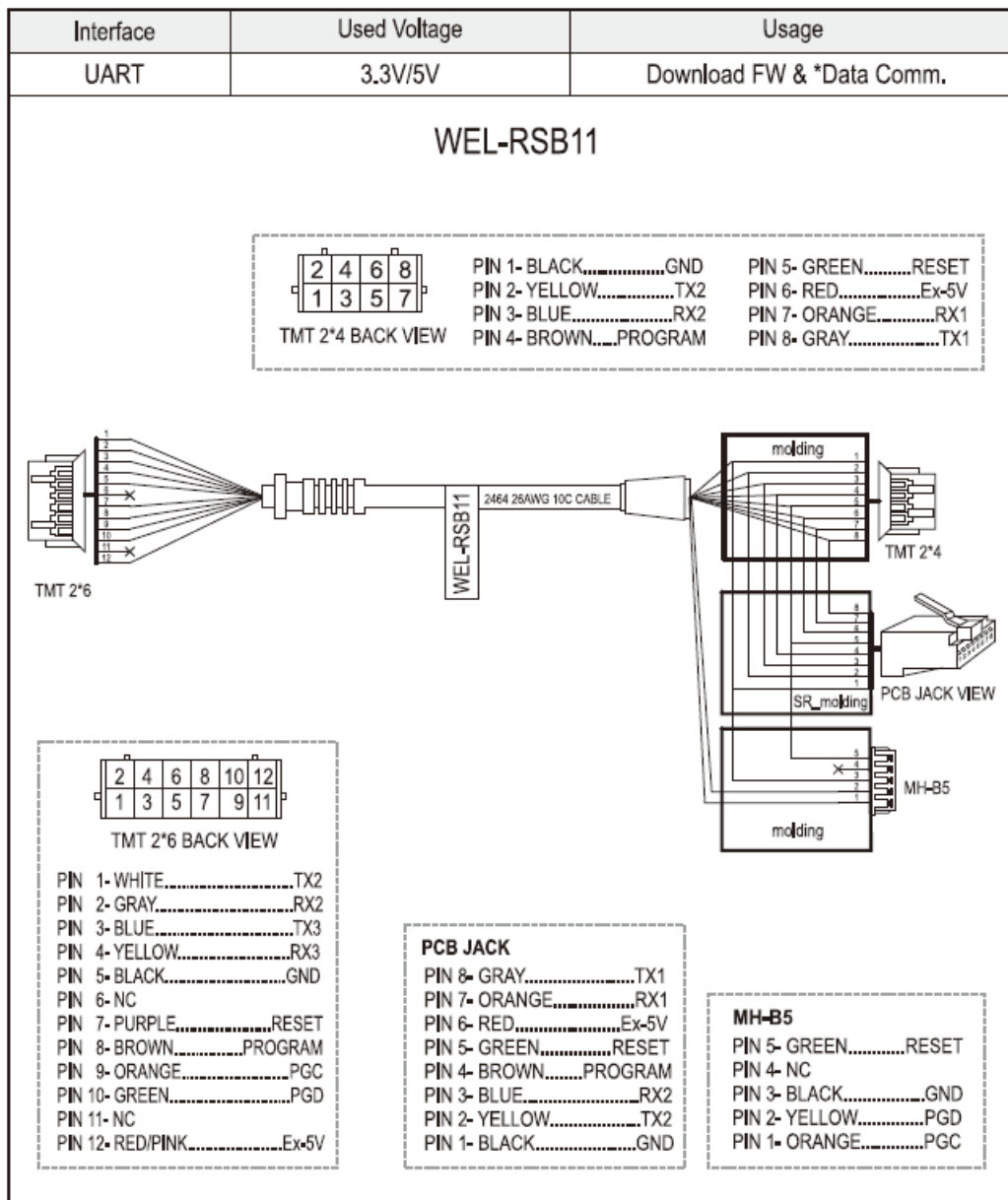


PIN 4- GND
PIN 3- D+
PIN 2- D-
PIN 1- VBUS

USB-A-TYPE



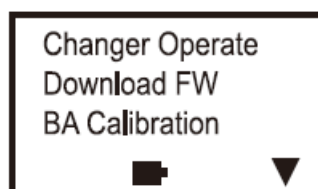
PIN 4- GND
PIN 3- D+
PIN 2- D-
PIN 1- VBUS



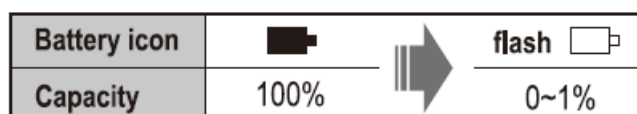
How to charge battery

Battery Capacity

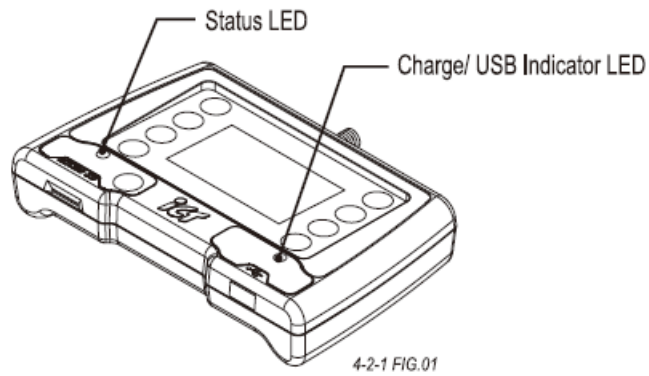
- Li-ion battery: 2100 mAh



For checking battery capacity,
LCM displays battery capacity
on the main menu.



When battery low, Status LED displays blink red as well LCM displays low battery. Please charge MTB immediately.



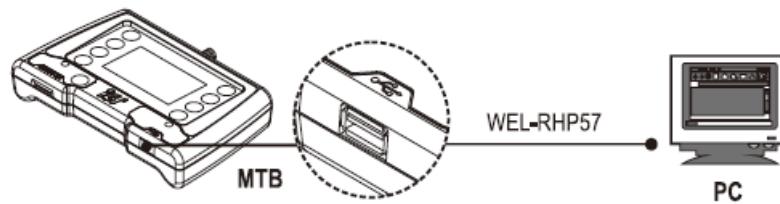
Charge LED indicator

Charge LED indicator	Description
Red	Charging in process
Turns back to off	Fully charged

Charging procedure

1. Charged by PC

- Use WEL-RHP57 to connect MTB and PC.



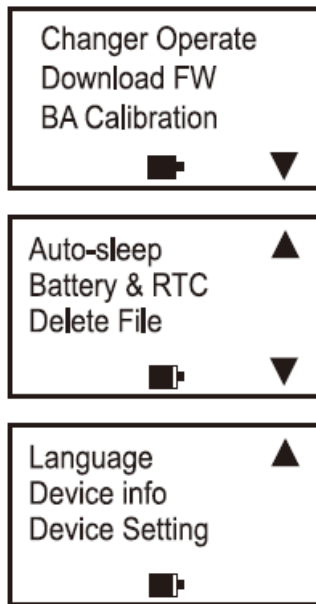
2. Charged by Adapter

- It could be charged by an external adapter as well. The specification of adapter should be DC 5V, 500mA or above.

Battery Notice

- MTB's battery should be charged at least once every six months in order to extend battery life.
- **Working temperature while battery is charging:** 0-45°C
- Do not use MTB while battery is charging 5V DC charging voltage.
- **Continues working time: up to 6 hours Charging time: 4 hours (capacity**

Getting started (SWI OFF)



- **Step 1.** Press the ON/ OFF button to wake up MTB and then the Status LED turns on.
- **Step 2.** Press "▲" "▼" to switch pages of the Main menu.

step 3. Choose one function that you need. Please refer to Chapters 3-7 for more function detail
Changer Operate: Set up Coin Changer operation contents

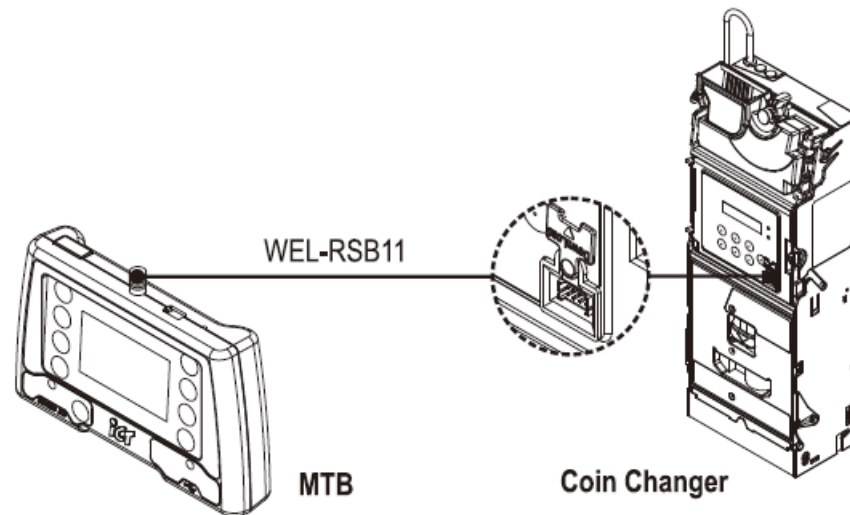
- **Download FW:** Download ICT products' firmware as well as IrDADownload.
- **BA Calibration:** Calibration devices' sensor.
- **Auto-sleep:** Set MTB interval time to turn sleep mode.(5 or 10 minutes)
- **Battery & RTC:** Check the remaining battery capacity as well as set RTC (date & time)
- **Delete File:** Deleted program files, SD Card
- **Language:** Select Country Language.
- **Device Info:** Read machine program version

Device Setting Passive mode.

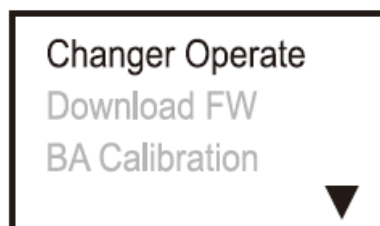
Coin Changer operation setting

Connection

- **step 1.** Use WEL-RSBII to connect MTB and Coin Changer.

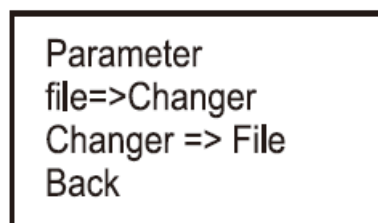
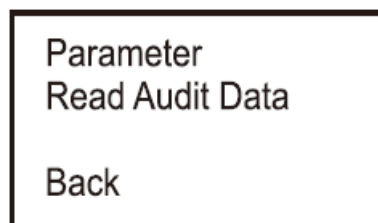


- **Step 2.** Press “Changer operate” on the page of Main menu.



Parameter into Coin changer Select Parameter

- **File changer:** The parameters set Changer.
- **Changer =>File:** The parameters stored Changer.



Read coin changer's audit data(EVA DTS)

- **Step 1**
 - Select “Read Audit Data”.
- **step 2.**
 - Select transmission.
- **Step 3.**
 - Choose read-only or read Clear.

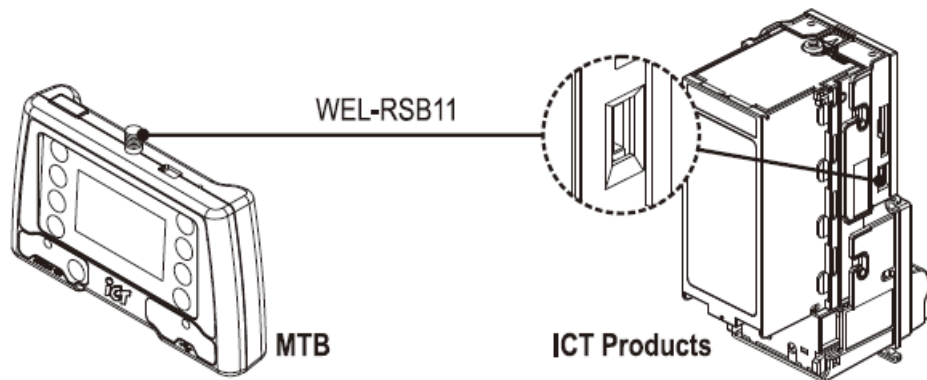
Read AuditData
By IrDA
By Cable
Back

By
Clean After Read
Read Only
Back

Download firmware for ICT products

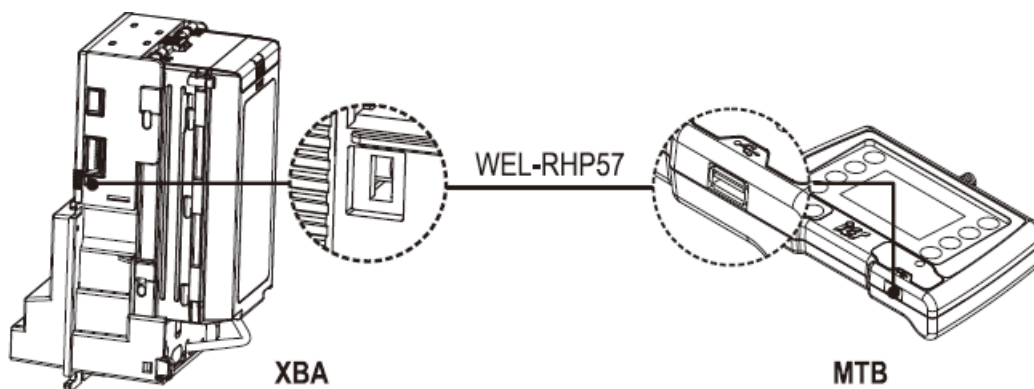
Connection

Use WEL-RSBII to connect MTB and ICT products (BAICA etc..)



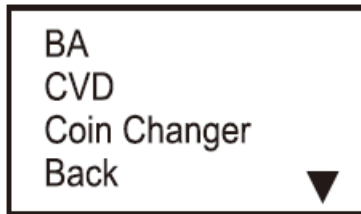
Use WEL-RHP57 to connect MTB and XBA.

Please refer to 6-3 Steps for XBA download.



Instruction

- **Step 1.** Press “Download FW” on pages of Main menu.
- **step 2.** Select one Model Name to start download.



Steps for XBA download and DIP switches setting

- **Step 1**
 - Use WEL-RHP57 to connect MTB and XBA. Press “Download FW” on pages of Main menu.
- **step 2.**
 - Select “BA” and then press “XBA”.
- **step 3.**
 - Press “Enter” to start downloading. Press “Back” to return the prior page.
- **Step 4.**
 - Press “Outside Dips” to set up XBA outside dips.
 - Press “Inside Dips” to set up XBA inside dips. If no necessary to set up XBA dip switches, please press “Enter” to download firmware directly.

Changer Operate	
Download FW	
BA Calibration	
	▼

BA	
CVD	
Coin Changer	
Back	▼

V7T	▲
XBA	
Back	▼

Update?	
(.....firmware information.....)	
Back	Enter

== Dip Group ==	
Outside Dips	
Inside Dip	
Back	Enter

- **step 5.**
 - After entering “Outside Dips” or “Inside Dips”, please press any dips that you want to revise. (ON or OFF)
 - Press “V ” to set up NO.5-NO.8 dips
 - Press “Back” to return the prior page.
- **Step 6.**
 - Press “Enter” to start download.
- **step 7.**
 - Press “YES” to save dip setting into XBA.
 - Press “NO” not to save dip setting into XBA.
- **Step 8.**
 - Download successfully and press”Confirm” back to prior page.

Outside Dips	
1. OFF	2.ON
3. OFF	4.OFF
Back	

Update?	
(.....firmware information.....)	
Back	Enter

Check Set Dip?	
NO	YES

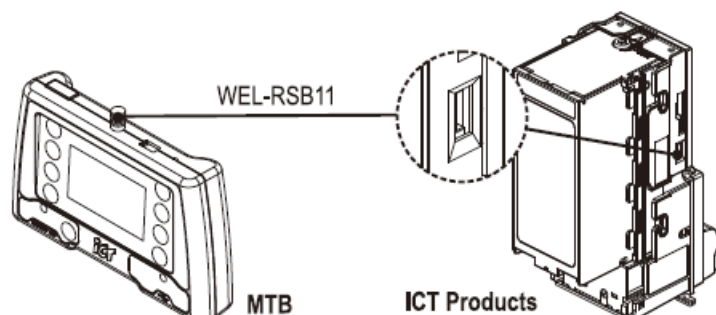
(...Firmware information...)	
Write FWOK
Verify FWOK
Confirm	

Download fail shown as below:

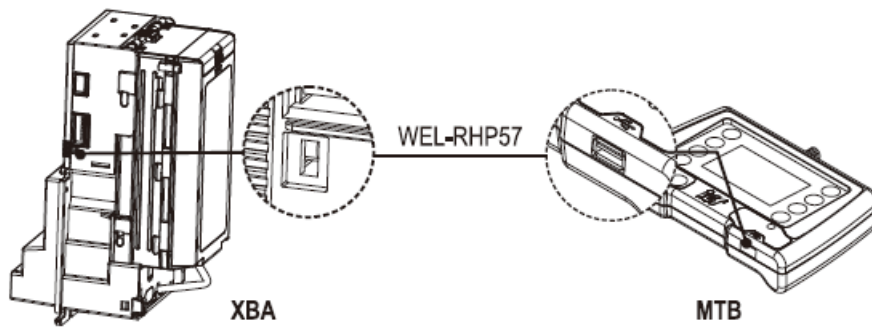
(...Firmware information...)	
Write FW	
Download Fail	
Confirm	

Sensor Calibration

Connection Use WEL-RSBII to connect MTB and ICT products(BA/CA etc..)

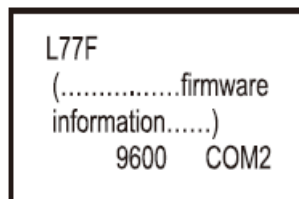
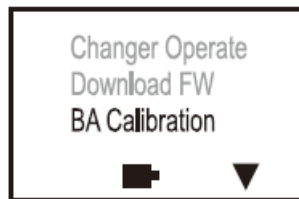


Use WEL-RHP57 to connect MTB and XBA.



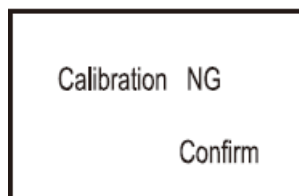
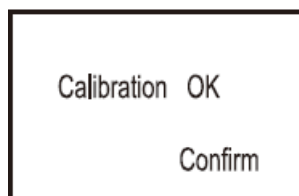
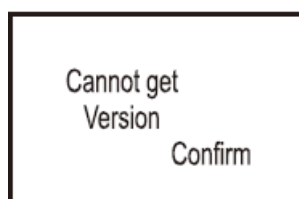
Instruction

- **Step 1.** Press “BA Calibration” on pages of Main menu.
- **step 2.** MTB detect device’s model name and firmware information.



MTB couldn't support sensor calibration for some products that might show as below:

- **Step 3.** Please insert calibration card into device. Sensor calibration is successful as well resets device automatically. Sensor calibration is fail.



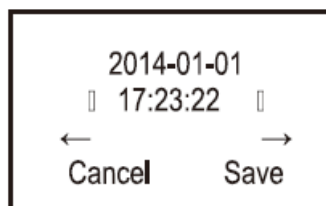
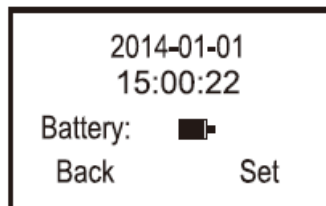
- **Step4.** Press “Confirm” to return the prior page.



Battery Capacity

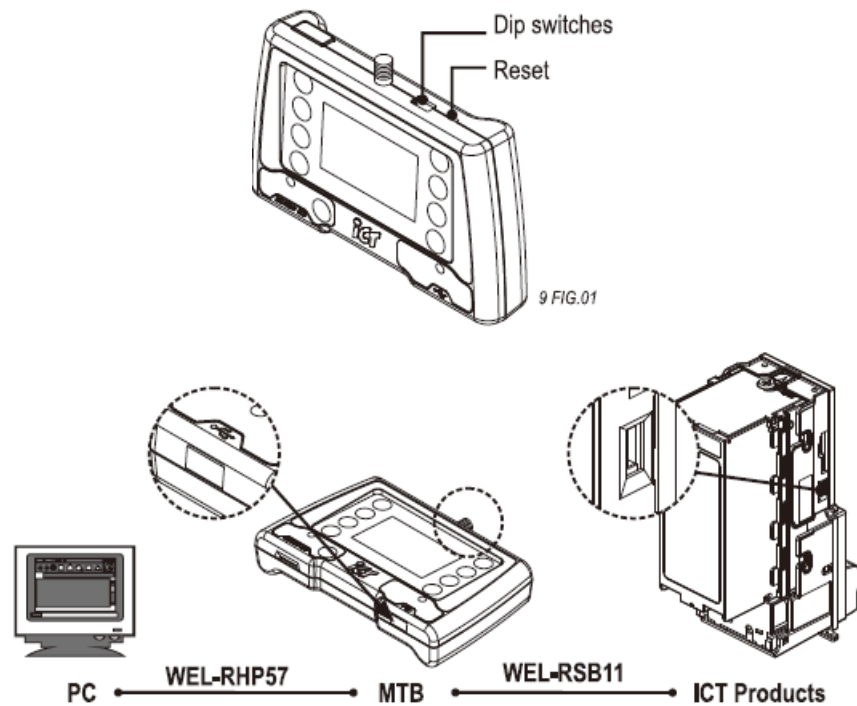
Battery Capacity & RTC (Battery & RTC)

- **Step 1.**
 - Press "Battery & RTC" on Main menu.
- **step 2.**
 - Press "Set" to set RTC date and time.
- **step 3.**
 - Press "9" to shift configured digit. " + "," " to plus/minus number.
 - Press "Save" to save setting.

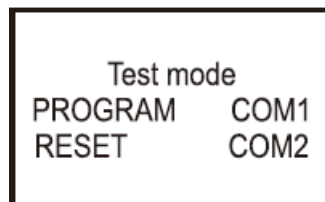


Connect to Device's PC tool

- **Step 1.** Turn SWI to ON status and press "Reset".
- **Step 2.** Please install USB Driver.
- **Step 3.** Connect device, MTB and PC. (Use WEL-RHP57 cable to connect MTB and PC)



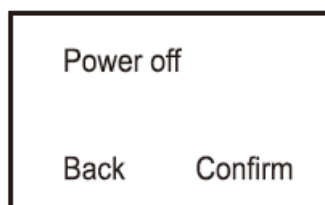
- **Step 4.** Open the device's tool and select visual comport.
- **Step 5.** Download the device's firmware.
 - Press "COM1" and "PROGRAM" to download the device's firmware.
 - If the PC tool shows a download fail message, please press "COM2" & "PROGRAM" and try it again.
- **Step 6.** Reset device
 - Press " * COM1" and "RESET". If the device doesn't reset, please press "COM2" & "RESET" and try it again.

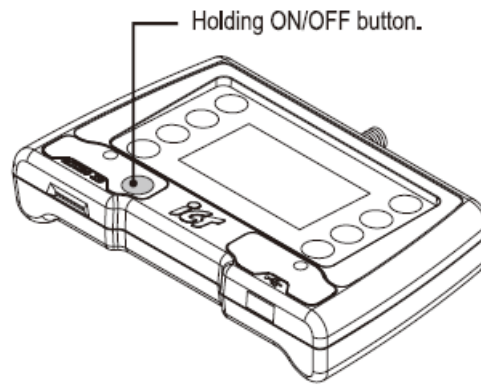


- **Step 7.** Turn SWI to OFF status and press "Reset" to back the Main Menu.

Download MTB's firmware by pen driver

- **Step 1.** Please turn off MTB first.
 - Press "Confirm".

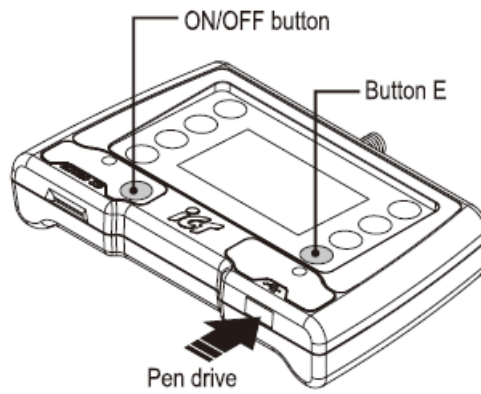




10 FIG.01

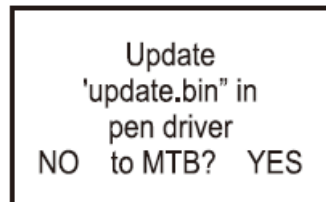
• **step 2.**

- Plug in Pen drive. MTB's firmware in pen driver.
- Keep pressing the button "E", then press the "ON-OFF" button at the same time.

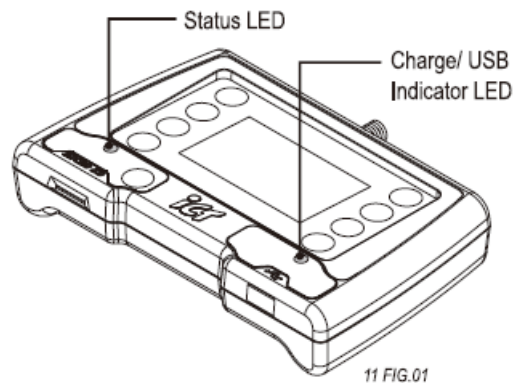


10 FIG.02

- Press "YES" to download MTB's firmware.



Troubleshooting



11 FIG.01

11 TABLE.01

Status LED indicator	Description
Green	Power on
Blink red	Battery low
Orange	Download in process
Turns back to Green	Download OK
Red	Download NG

11 TABLE.02

Charge LED indicator	Description
Red	Charging in process
Turns back to off	Fully charged

CONTACT

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- **Part Number:** H6732A-R

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Documents / Resources



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H67320-R, H6732A-R, H6732A-R Multi Function ToolBox, H6732A-R, Multi Function ToolBox, Function ToolBox, ToolBox

References

- [User Manual](#)