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P/N: 80126501-001 Rev.B

# BTSCAN™

## Quick Start Manual



**IDTECH®**  
Value through Innovation

## FCC WARNING STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## CANADIAN DOC STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## CE MARKING AND EUROPEAN UNION COMPLIANCE

Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant with all the applicable Directives, 2004/108/EC and 2006/95/EC.

## WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT

The WEEE directive places an obligation on all EU-based manufacturers and importers to take-back electronic products at the end of their useful life.

## ROHS STATEMENT OF COMPLIANCE

This product is compliant to Directive 2002/95/EC.

## NON-MODIFICATION STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance



## WARNING AND CAUTION

ID TECH warrants to the original purchaser for a period of 24 months from the date of invoice that this product is in good working order and free from defects in material and workmanship under normal use and service. ID TECH's obligation under this warranty is limited to, at its option, replacing, repairing, or giving credit for any product which has, within the warranty period, been returned to the factory of origin, transportation charges and insurance prepaid, and which is, after examination, disclosed to ID TECH's satisfaction to be thus defective. The expense of removal and reinstallation of any item or items of equipment is not included in this warranty. No person, firm, or corporation is authorized to assume for ID TECH any other liabilities in connection with the sales of any product. In no event shall ID TECH be liable for any special, incidental or consequential damages to purchaser or any third party caused by any defective item of equipment, whether that defect is warranted against or not. Purchaser's sole and exclusive remedy for defective equipment, which does not conform to the requirements of sales, is to have such equipment replaced or repaired by ID TECH. For limited warranty service during the warranty period, please contact ID TECH to obtain a Return Material Authorization (RMA) number & instructions for returning the product.

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## OUT OF THE BOX



BTScan



Insert Card



Quick Start Manual



Quick Connection Card

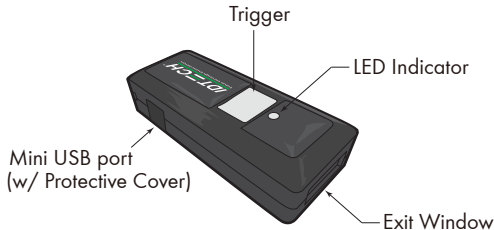


USB Charger Cable



Hand Strap

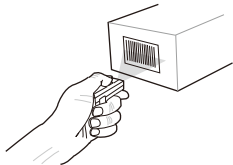
## INTRODUCTION



## SPECIFICATIONS

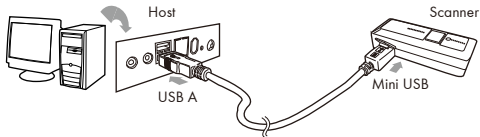
Light source	625nm visible red LED
Scan rate	240 scans/sec
Sensor	Linear CMOS sensor
Resolution	5mil/ 0.127mm
PCS	30%
Housing	Plastic(PC)
Profile	SPP, HID
Battery Life	8 hours (1 scan/ 5 sec)
Charge Time	2 hours (fully charged)
Coverage	10M/33ft. (line of sight)
Operating Temp	0 to 50°C (32°F to 122°F)
Symbologies	All major 1D barcodes incl. GS1 Databar

## GETTING STARTED



To scan a barcode, make sure the aiming beam crosses every bar and space of the barcode.

## CHARGING THE BATTERY



1. Flip open the mini USB port on the scanner.
2. Insert the mini USB connector into the port on the scanner and USB A connector into a USB port on the host PC.

## BEEPER INDICATION

Single long beep	Power up
Single beep	Good read
Single short beep	The scanner reads a Code39 of ASCII in configuration procedure
Two beeps	i. Wireless connection ii. The scanner successfully reads a configuration barcode
Two short beeps	Good read (Batch mode/Memory mode)
Four beeps (Hi-Lo-Hi-Lo)	Out of range/Poor connection
Five beeps	Low power
Three beeps	Wireless disconnection
Three short beeps	i. The scanner reads a barcodes while disconnected. ii. The scanner reads an unexpected barcode during configuration procedure. (scan [ABORT] to abort and start over)
Several short beeps	The scanner switches from one communication mode to another

## LED INDICATION

Off	Standby or Power off
Flashing Green	Disconnected or Discoverable
Green for 2 sec	Good Read
Flashing Red	Low power
Solid Red	Charging

## GETTING CONNECTED


There are two modes of wireless communication:

• EO43\$



[ Recommended ]

**BT mode - HID**

1. Press the trigger for 1 second to activate the scanner.
2. Scan [DISCONNECT]
3. Scan [BT mode - HID]; the scanner will emit several beeps.
4. Select "Wireless Scanner" from discovered device list.
5. The Bluetooth application may prompt you to scan a pincode (see PINCODE SETUP  section) it generated.
6. The scanner will beep twice to verify the connection.

• EO42\$



**BT mode - SPP**

1. Press the trigger for 1 second to activate the scanner.
2. Scan [DISCONNECT]
3. Scan [BT mode - SPP]; the scanner will emit several beeps.
4. Select "Wireless Scanner" from discovered device list.  
The default pincode is "1234".
5. Open serial communication software with com port (see Device Manager) properly set up.
6. The scanner will beep twice to verify the connection.

• EO31\$



**Disconnect**

## PINCODE SETUP


STEP 1

**Pincode Start**

• EO32\$



STEP 2

Scan numeric barcodes (see **NUMERIC BARCODES**  section on the next pages) based on the pincode generated by the Bluetooth application.

STEP 3

**Enter**

\$TX



STEP 4

**Pincode Stop**

• EO33\$



# NUMERIC BARCODES

---



**1**



**2**



**3**



**4**



**5**

**6**



**7**



**8**



**9**



**0**



## POWER OFF TIMEOUT

The timeout of inactivity before auto power-off.

### Variable Timeout

. B030\$



SET MINUTE  
(Range: 00 ~ 60)

. B029\$



SET SECOND  
(Range: 00 ~ 60)

The default timeout is 3 minutes 0 second.

For example, to set the timeout as 5 minutes 30 seconds:

1. Scan [Set Minute]
2. Scan [0] & [5] on page 9 & 10.
3. Scan [Set Minute]
4. Scan [Set Second]
5. Scan [3] & [0] on page 9 & 10.
6. Scan [Set Second]

### No Timeout (Scanner Always On)

. B021\$



DISABLE  
TIMEOUT

## SMARTPHONE/TABLET CONNECTION

### Getting Connected - iOS & Android

Simply follow instruction in [BT mode - HID] (page 7), in which step 5 can be skipped since iOS & Android will not require pin-code for connection.

### Touch Keyboard - iOS

. E047\$



ENABLE iOS HOTKEY

After enabling iOS Hotkey(disabled by default), you may simply double-click the trigger to toggle the iPhone/iPad Touch Keyboard.

### Touch Keyboard - Android

Please follow below steps to toggle Android virtual keyboard:

1. Enter "Settings"
2. Enter "Language & input"
3. In Keyboard & input window, tap "Default" to continue.
4. Turn off "Hardware - Physical keyboard", and the Touch Keyboard will function properly again.

## BINARY CHECK CHARACTER

. E029\$



ENABLE

. E030\$



**DISABLE**

Once enabled, a checksum will be added to the end of each data to conduct Xor calculation. For Bluetooth SPP & USB-VCP, the BCC is 1 byte. For Bluetooth HID, the BCC are 2 bytes.

Example:

The barcode data is "TEST" with terminator <CR><LF>

1. Bluetooth SPP & USB-VCP:

Data Format = <T> + <E> + <S> + <T> + <CR> + <LF> + <BCC>.

BCC = 54h ^ 45h ^ 53h ^ 54h ^ 0Dh ^ 0Ah = 11h

2. Bluetooth HID:

Data Format = <T> + <E> + <S> + <T> + <Enter> + <BCC>

BCC = 54h ^ 45h ^ 53h ^ 54h ^ E7h = F1h

However, since control character cannot be displayed in Bluetooth HID, BCC will be converted into 2 bytes of characters. As a result, the data will be: TEST + <Enter> + F + 1

## BATCH MODE

. E054\$



ENABLE

. E053\$



**DISABLE**

In Batch Mode, data will be temporarily stored in memory buffer (2KB RAM) when the scanner is out of range or in poor connection quality. Once the scanner gets back in range, the stored data will be sent back to the host immediately, which will also be erased in memory buffer at the same time.

Batch Mode can only function in the following conditions:

1. The scanner has been connected to a host device.
2. The scanner is NOT in Memory Mode.



## GENERAL SETTINGS

. A001\$



DEFAULT

. P023\$



ABORT

. A007\$



CHECK  
VERSION

## BEEPER

. F012\$



BEEP OFF

. F018\$



**BEEP ON**

## READING MODE

**TRIGGER**

TOGGLE

FLASH

CONTINUOUS

CONTINUOUS  
AUTO OFF

. F002\$



. F003\$



. F001\$



. F005\$



. F006\$



# KEYBOARD LAYOUT

---

. C010\$



**ENGLISH**  
**(USA)**

. C018\$



ENGLISH  
(UK)

. C012\$



FRENCH

. C011\$



GERMAN

. C014\$



ITALIAN

. C013\$



SPANISH

JAPAN  
(106 key)

. C009\$



CANADIAN  
(FRENCH)

. C025\$



CANADIAN  
(TRADITIONAL)

. C034\$



NORWEGIAN

. C029\$



SWEDISH

. C026\$



PORTUGUESE

. C031\$



# KEYBOARD LAYOUT

---

. C017\$



CZECH  
(QWERTY)

. C022\$



CZECH  
(QWERTZ)

. C021\$



HUNGARIAN  
(QWERTZ)

. C024\$



HUNGARIAN  
(101 KEY)

. C016\$



SWISS  
(GERMAN)

. C023\$



SWISS  
(FRENCH)

BELGIAN  
(AZERTY)

DUTCH

DANISH

SLOVAK

BRAZILIAN  
(PORTUGUESE)

ALT CODE

. C030\$



. C028\$



. C027\$



. C032\$



. C033\$



. C015\$



# ENABLE SYMBOLOGIES

---

. A002\$



ENABLE  
ALL CODE

. K010\$



CODE 32

. L010\$



UK PLESSEY

. L001\$



MSI

. N001\$



INDUSTRIAL  
2 OF 5

. M010\$



MATRIX  
2 OF 5

. G010\$



CODE 93

. N017\$



IATA

. L014\$



TELEPEN

. N032\$



GS1 DATABAR

. N010\$



GS1 DATABAR  
LIMITED

. N026\$



GS1 DATABAR  
EXPANDED

# TERMINATOR

. D012\$



CR

. D011\$



LF

. D013\$



CR + LF

. D010\$



NONE

. D015\$



SPACE

. D014\$



TAB

# TEST BARCODES

**Code 39**



CODE-39 TEST

**Interleaved 2 of 5**



9876543210

**Code 128**



12345678

**EAN**



4 7 1 6 4 1 5 9 4 2 0 5 2