MOD. UT-BSCW2D

Barcode Scanner Manual



Utek

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In order to correctly use the bar code scanner, please read the instruction carefully and do not arbitrarily scan the settings code otherwise some settings may not be available temporarily.

Please keep this instruction for reference in the future.

If you have any question or concern about the operation of the scanner, please contact us at following Email:

support@minj.cn
www.minjcode.com

You are suggested to write down the model & the specific scenario and consult the maintenance person should you find the scanner abnormal.

Technical Parameter：

Mfr P/N	MJ3650
Radio Frequency	2.4Ghz Wireless
wireless Range	Indoor 60m, outdoor 100m
Memory	100000 barcodes
Battery capacity	2000mAh
Charging power	DC 5V 400mA
Standby current	18uA-25uA
Working current	15-50mA
Printing Contract	>25%
Light source	LED Light
LED life	12000 hours
Button life	8000,000 times
Resolution	≥4 mil
Scanning width	30cm
CPU	ARM 32-bit Cortex
Bit Error rate	1/20million
Decoding speed	10ms/times, Continuous static decoding without interval
Scanning angle	rotor angel±30°, inclination±60°, declination±60°
Drop test	1.5 m
Full charge on work	18 Hours
Certificate	CE, FCC，RoHS，IP54
Applicable 1D/2D barcode	EAN13、EAN8、UPC-A、UPC-E0、UPC-E1、Code128、Code39、Code93、CodaBar、Interleaved 2 of 5、Industrial 2 of 5、Matrix 2 of 5、Code11、 MSI-Plessey、Standard 2 of 5、Plessey、China Post、GS1 Databar(RSS-Expand, RSS-Limited, RSS-14) QR Code、PDF417、DataMatrix（ ECC200）、Micro QR Code、 GS1 Composite、Aztec code、GS1 Data Matrix 、Han Xin Code、GS1 Data Matrix

Packing list:
·Barcode scanner*1
·USB Cable*1
·Instruction Manual*1
·USB Wireless receiver *1

Battery & Charging:
The scanner is powered by 2000mAh chargeable battery.
Please ensure that the scanner has enough power before use.

Low battery level indication:
The red indicator light flashes three time, the buzzer would sounded 3 times,
it indicates that the power is less than 30%.
Please charge the scanner as soon as possible.

The red light flashes 5 time, the buzzer would sounded 5 times and then cut down automatically, it indicates that the power is less than 20%. The scanner cannot be powered as it enter into low voltage cutoff mode. Please stop scanning and charge the scanner.

Charging indicator:

The red indicator light on the top of the scanner will stay on during the charging process, and it will go off when the scanner is fully charged.

NOTE:
1. Please use computer USB interface or special 5V DC power adapter for charging, the abnormal power will cause permanent damage to saner and battery.

The USB cable can be used for charging, as well as transmitting data.

Setup steps
1. Power on the scanner by pressing the button. The buzzer will sound three beeps and the green light on top of the scanner will light up.
2. Plug the USB receiver into the USB port of your computer. Scan the pairing setup code and there will be two beeps for successful pairing
3. Open the notepad on the computer, keep the notepad as input state, scan the barcode, the data will be uploaded on the notepad.
If no barcode is displayed and three ticks sound, please follow the steps below to reset the scanner.
1. Unplug the USB receiver and plug it back in.
2. Scan the"Scanner Factory Reset"and "Pairing" setup code.

(The scanner and receiver are usually factory paired)

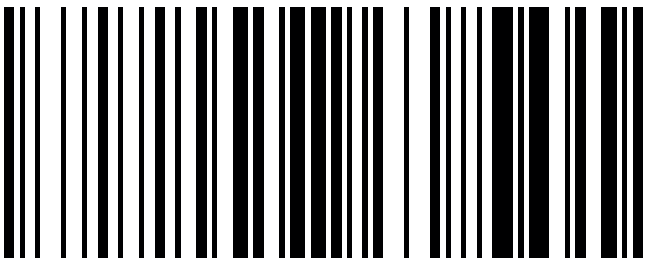


Scanner Factory Reset



Wireless Restore Factory Settings

Pairing



Note:Try to restore the factory settings when the barcode reading or wireless function is abnormal

FAQs:

Q1. Why does scanner not read the barcode exactly. When I use the scanner to read a barcode of an item, I get a different result from the barcode itself.

Example 1. There are two separate barcodes together. It scanned the first 12 digits in the barcode but not the last five.

Solution: Please scan the code" EAN13-5 enable extra code" on page 15.

Example 2. The scanner is set with prefix or suffix.

Solution: Please scan the code "Scanner Factory Reset" on page 5.

Example 3. Set the corresponding country or region language and keyboard.

Solution: Please scan the barcode of your desired language in the keyboard language setting on page 13.

If that is not your case, please send us a clear picture of the barcode and the result you get, our customer service will help you to solve the problem.

Q2. Some barcodes can not be read, why?

Answer:
A. Incomplete and unclear barcodes might not be read.
B. It is possible that the setting is off by default for some barcode types which are not commonly used. You need to activate a specific barcode type to get it working.

Please feel free to contact our Customer Service Team for further assistance if you don't know the exact type of barcode that you are referring to.

Q3. Is there any barcodes to remove auto-enter after every scanning?

Answer:
To remove the auto-enter, please read the code" Disable suffix" on page 30.

Troubleshooting:

Problem	Possible Reason	Solution
Power on the scanner, the scanner has no reaction. The buzzer does not beep, the blue light on the top of scanner does not turn on, the red scanning laser does not show up.	The battery run out.	Connect the scanner to PC's USB port for charging via USB cable
The scanner can not hold the charge.	The PC' s USB port is out of condition.	Connect the scanner to another USB port for charging.
	The USB cable is out of condition.	Contact support@minj.cn for the replacement.

Optional Function settings
Settings of the barcode scanner can be changed by scanning the setup barcodes included in this manual.

1. Upload Mode Setting
1.1. Instant Upload Mode: Read barcodes and upload it straight to the file you have opened.

** To set the scanner to upload barcode instantly, scan the following code:



Instant upload mode

Scanning indication:
(1) The buzzer emits a sound like "DI" when the barcode is uploaded successfully.

(2)The buzzer emits a sound like "DI-DI-DI" when the barcode can not be uploaded.

Note 1:
The transmission speed between every character can be changed by scanning the following code. If some characters are missing, please set the scanner to lower transmission speed. The higher the value, the slower the speed is.
Please make sure that the USB receiver is plugged.



High speed



Medium speed



Low speed



Slow speed

1.2. Storage Mode: Read barcodes and store the barcodes in scanner's own memory. You can upload the data to computer in batches when you need them. Internal storage saves up to 100,000 barcodes.

Note:
In storage mode, the barcode will be stored in the scanner and will not come up on your computer instantly. The barcode comes up on your computer only when you scan the settings code "upload data".

* *To convert scanner from "instant upload mode" to "storage mode", scan the following barcode "Storage mode ".



Storage mode

*Put the cursor in the blank, and then scan code below to upload data.



Upload data

*Put the cursor in the blank and then scan the code below to show total number of stored barcode.



Show total storage

*Scan the barcode "Zero clearing" to clear all stored barcode. (for storage mode only)



Zero clearing

Scanning indication:
(1) The buzzer emits a sound like "DI" when the barcode is saved successfully in the built-in memory of the scanner.
(2) The buzzer blared for three seconds when the barcode can not be saved in the built-
in memory of the scanner. The space of memory is not enough and cannot store any m ore barcodes. Please upload the saved barcode by scanning the code "Upload Data" a nd then clear the saved barcode by scanning code " zero clearing".

Note 1:
In storage mode, the transmission speed between every barcode can be changed by scanning the following code. The higher the value, the slower the speed is.

Note 2:
If the character upload speed (on page 8) is set to a slower speed, and the barcode upload speed is set to a higher speed. When uploading data in storage mode, the data maybe be lost. If some character or barcode are missing, please set the scanner to lower barcode transmission speed.

Please make sure that the USB receiver is plugged.

High speed

Medium speed

Low speed

Slow speed

2. Scanning Mode Setting

2.1. Manual Trigger mode (default):

User Press the trigger, the scanner will emit a red laser to read the barcode. When user release the trigger, the red laser will go off.

** Scan the following codes to set the scanner to Manual trigger mode .

Manual trigger mode (default)

2.2.Continuous Scanning Mode

There' s no need to click the trigger in this mode. The red laser of the scanner will be on all the time.
** Scan the following codes to set the scanner to Continuous Scanning Mode.

Continuous Scanning Mode

2.3.Sensing mode

In the induction mode, the reading module enters the reading state by sensing the change of ambient brightness.

Sensing mode

3. Duplicate Barcode Detection

**If you scan the setup barcode" Same Barcode Detection-
open " the scanner can not upload the barcode it has read before unless scan different barcode and then go back ,or turn off the scanner and then turn it on.

**If you want the scanner able to read the same barcode at a certain time interval, you can choose an interval of 0.5 second, 1 seconds ... or a longer period of time.

For example, " Same Barcode Detection-3 seconds" , scanner will read the same barcode again after every 3 second. The calculation of time starts from scanning the bar code, regardless of whether the bar code is scanned successfully or not, it is calculated from the last scan.

** Scan " Same Barcode Detection-Off " to turn off this function.



Same Barcode Detection-Off



Same Barcode Detection-On

Note: The same barcode delay duration can be set only after scan the "same barcode detection-open" is enabled.



Same Barcode Detection-0.5s



Same Barcode Detection-1s



Same Barcode Detection-3s



Same Barcode Detection-5s



Same Barcode Detection-permanent

4. Beep Setting

**Scan one of the following bar codes to adjust the scanner to turn on or off the boot prompt beep upon successful startup.



**Boot prompt buzzer-On



Boot prompt buzzer-Off

**Scan one of the following barcodes to adjust the LED/buzzer when the scanner is successfully read.



**LED indicating successful reading-On



LED indicating successful reading-Off



**Buzzer indicating successful reading-On



Buzzer indicating successful reading-Off

5.Keyboard Language Setting

The scanner support 14 international keyboards:
You are suggested to set the keyboard type of the scanner to be in agreement with that in real use by scanning the correspondent barcode listed below.

National Keyboard Setting (direct scan code setting)		
English	Germany	France
Italian (Italy)	Portugal	Spain
Finland	Czech Republic	Japanese
Spanish (Mexico)	Portuguese (Brazil)	South Sami (Norway)
Turkish Q keyboard		

6.Case Conversion Setting(Direct scan code setting)

%%NO_CASE Case no conversion	%%TG_CASE Case Reverse	%%BG_CASE All Capital
%%SM_CASE All lowercase		

7.Power Off Settings

The scanner will be powered off if there is no operation on it over 5 minutes.
Short press on the trigger can wake it up.

Scan one of the following barcode to set the time interval, when it's idle exceeding the time interval you set, the scanner will be power off.

Setting method: scan"Set Sleep Time" first and then scan " XXs Automatic power off".



Set Sleep Time



20s Automatic power off



30s Automatic power off



5mins Automatic power off



20mins Automatic power off



Never power off

8. End Character Setting

By default, the scanner is sending a 'carriage return' after scanning a code (the same as pressing the 'enter' key).



CR/ENTER (default)



CR+LF



Tab



Disable suffix

To add Carriage Return, please read code " Add Carriage Return" ;to remove Carriage Return,please read code " disable suffix".

9.Barcode Types Enable/Disable

The code beginning with word "*" is the default settings.

(1). EAN13

①.Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the EAN13 bar code reading function.



**Enable to scan EAN13



Disable to scan EAN13

②. Enable and disable of extra-code forced output function

Customers can scan the following setting codes to enable or disable the EAN13 extra-code forced output function.



EAN13 force enable extra-code



**EAN13 disable extra-code

Customers can scan the following setting codes to enable or disable the configuration of EAN13.



EAN13-2 enable extra-code



**EAN13-2 disable extra-code



EAN13-5 enable extra-code



**EAN13-5 disable extra-code

(2). EAN8

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the EAN8 bar code reading function.



**Enable to scan EAN8



Disable to scan EAN8

②. Enable and disable of extra-code forced output function

Customers can scan the following setting codes to enable or disable the EAN8 extra-code forced output function.



EAN8 force enable extra-code



**EAN8 disable extra-code

Customers can scan the following setting codes to enable or disable the configuration of EAN8.



EAN8-2 enable extra-code



**EAN8-2 disable extra-code



EAN8-5 enable extra-code



**EAN8-5 disable extra-code

(3). UPCA

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the UPCA bar code reading function.



**Enable to scan UPCA



Disable to scan UPCA

②. Enable and disable of extra-code forced output function

Customers can scan the following setting codes to enable or disable the UPCA extra-code forced output function.



UPCA force enable extra-code



**UPCA disable extra-code

Customers can scan the following setting codes to enable or disable the configuration of UPCA extra-code.



UPCA-2 enable extra-code



**UPCA-2 disable extra-code



UPCA-5 enable extra-code



**UPCA-5 disable extra-code

③. Enable/disable the UPCA conversion EAN13

Customers can scan the following setting codes to enable or disable the UPCA conversion EAN13.



Enable UPCA conversion EAN13



**Disable UPCA conversion EAN13

(4) .UPCE0

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the UPCE0 bar code reading function.



**Enable to scan UPCE0



Disable to scan UPCE0

②. Enable and disable of extra-code forced output function

Customers can scan the following setting codes to enable or disable the UPCE0 extra-code forced output function.



UPCE0 force enable extra-code



**UPCE0 disable extra-code

Customers can scan the following setting codes to enable or disable the configuration of UPCE0 extra-code.



UPCE0-2 enable extra-code



**UPCE0-2 disable extra-code



UPCE0-5 enable extra-code



**UPCE0-5 disable extra-code

(5). UPCE1

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the UPCE1 bar code reading function.



**Enable to scan UPCE1



Disable to scan UPCE1

②. Enable and disable of extra-code forced output function

Customers can scan the following setting codes to enable or disable the UPCE1 extra-code forced output function.



UPCE1 force enable extra-code



**UPCE1 disable extra-code

Customers can scan the following setting codes to enable or disable the configuration of UPCE1 extra-code.



UPCE1-2 enable extra-code



**UPCE1-2 disable extra-code



UPCE1-5 enable extra-code



**UPCE1-5 disable extra-code

(6) .Code128

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Code128 bar code reading function.



**Enable to scan Code128



Disable to scanCode128

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Code128.



**Code128 shortest message length is 0



Code128 shortest message length is 4



Code128 longest message length is 32



**Code128 longest message length is 255

(7). Code39

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Code39 bar code reading function.



**Enable to scan Code39



Disable to scan Code39

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Code39.



**Code39 shortest message length is 0



Code39 shortest message length is 4



Code39 longest message length is 32



**Code39 longest message length is 255

③. Start character and ending character output settings

Customers can scan the following setting codes to set the Code39 output settings of start character and ending character.



Code39 enable start character



**Code39 disable start character



Code39 enable ending character



**Code39 disable ending character

④. Code32 mode setting

Customers can scan the following setting codes to set whether the Code39 support Code32 mode.



Support Code32 mode



**Nonsupport Code32 mode

⑤. Full AscII mode setting

Customers can scan the following setting codes to set whether the Code39 support Full AscII mode.



Support Full ASCII mode



**No support Full ASCII mode

(8) .Code93

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Code93 bar code reading function.



**Enable to scan Code93



Disable to scan Code93

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Code93.



**Code93 shortest message length is 0



Code93 shortest message length is 4



Code93 longest message length is 32



**Code93 longest message length is 255

(9). Codabar

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Codabar bar code reading function.



**Enable to scan Codabar



Disable to scan Codabar

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Codabar.



Codabar shortest message length is 0



**Codabar shortest message length is 4



**Codabar longest message length is 32



Codabar longest message length is 255

③. Start and ending character output settings

Customers can scan the following setting codes to set the Codabar output settings of start and ending character.



Codabar enable start and ending character



**Codabar disable start and ending character

(10). Interleaved 25

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Interleaved 25 bar code reading function.



Enable to scan Interleaved 25



**Disable to scan Interleaved 25

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Interleaved 25.



Interleaved 25 shortest message length is 0



**Interleaved 25 shortest message length is 4



**Interleaved 25 longest message length is 32



Interleaved 25 longest message length is 255

(11). Industrial 25

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Industrial 25 bar code reading function.



Enable to scan Industrial 25



**Disable to scan Industrial 25

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Industrial 25.



Industrial 25 shortest message length is 0



**Industrial 25 shortest message length is 4



**Industrial 25 longest message length is 32



Industrial 25 longest message length is 255

(12) .Matrix 25

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Matrix 25 bar code reading function.



Enable to scan Matrix 25



**Disable to scan Matrix 25

Customers can scan the following setting codes to set the shortest and longest reading length of Matrix 25.



Matrix 25 shortest message length is 0



**Matrix 25 shortest message length is 4



**Matrix 25 longest message length is 32



Matrix 25 longest message length is 255

(13). Code11

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Code11 bar code reading function.



Enable to scan Code11



**Disable to scan Code11

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Code11.



Code11 shortest message length is 0



**Code11 shortest message length is 4



**Code11 longest message length is 32



Code11 longest message length is 255

③. Checking format setting

Customers can scan the following setting codes to setting whether to processing check of Code11.



**Code11 checking-1bit



Code11 checking-2bit

(14) .MSI Plessey

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the MSI Plessey bar code reading function.



Enable to scan MSI Plessey



**Disable to scan MSI Plessey

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of MSI Plessey.



MSI Plessey shortest message length is 0



**MSI Plessey shortest message length is 4



**MSI Plessey longest message length is 32



MSI Plessey longest message length is 255

(15) .RSS-14

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the RSS-14 bar code reading function.



Enable to scan RSS-14



Disable to scan RSS-14

(16). Finite form RSS

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Finite form RSS bar code reading function.



Enable to read the Finite form RSS



**Disable to read the Finite form RSS

(17). Expanding RSS

①. Enable and disable of reading function

Customers can scan the following setting codes to enable or disable the Expanding RSS bar code reading function.



Enable to scan Expanding RSS



**Disable to scan Expanding RSS

②. Reading length setting

Customers can scan the following setting codes to set the shortest and longest reading length of Expanding RSS.



Expanding RSS shortest message length is 0



**Expanding RSS shortest message length is 4



**Expanding RSS longest message length is 32



Expanding RSS longest message length is 255

(18) 2D barcode setting

18.1 QR Code Setting

Users can enable and disable the QR Code reading function by reading the following setting code.



**Enable QR Code Reading



Disable QR Code Reading

18.2 Data Matrix Code Setting(DM Code)

Users can enable and disable the Data Matrix Code reading function by reading the following setting code.



**Enable DM Code Reading



Disable DM Code Reading

The user can enable and disable the simultaneous reading of multiple Data Matrix codes by reading the following setting codes.



Enables simultaneous reading of multiple DM codes



**Disable simultaneous reading of multiple DM codes

18.3 PDF417 Code Setting

Users can enable and disable the PDF417 Code reading function by reading the following setting code.



**Enable PDF417 Code Reading



Disable PDF417 Code Reading

10.Data Editing

10.1 Prefix Setting

The prefix is located before the decoded data and is a string defined by the user. The user can add and modify the prefix by reading the following setting code.



Enable Prefix



**Disable Prefix

The following setting codes can be read, and together with the "ASCII Code" setting code and the "Save" setting code, the user can modify the prefix content.



Modify Prefix



Save Setting

Note: A maximum of 15 characters are allowed for the prefix, and the prefix characters are represented using ASCII characters. Character values refer to ASCII Bar Codes

10.2 Suffix Setting

The suffix is located after the decoded data and is a string defined by the user. Users can add and modify the suffix by reading the following setting code.



Enable Suffix



**Disable Suffix

The following setting codes can be read, and with the "ASCII Code" setting code and the "Save" setting code, the user can modify the suffix content.



Modify Suffix



Save Setting

Note: A maximum of 15 characters are allowed for the suffix, and the suffix characters are represented using ASCII characters. Character values refer to ASCII Bar Codes

ASCII Bar Codes


NUL


SOH


STX


ETX


EOT


ENQ


ACK


BEL


BS


HT


LF


VT


FF


CR


SO


SI


DLE


DC1


DC2


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