

# 2D

# Wireless Barcode Scanner Manual Guide



## Specification

TYPE		Distance	Memory
2.4G		≤100m	100,000 barcodes
Bluetooth		≤50m	
Working current: 5V±5%×140mA			Standby current : 30mA
Battery capacity: 2000 mAh			Charging power: 5V-400mA
Working time : 3 to 10 days			Standby time : 60 days
Light aimer: 624nm LED			Illumination: 6500K LEDs
Sensor: 640*480 CMOS			Indication: Buzzer & LED
Trigger Mode: Button, Continuous, Auto-Induction			
250Lux Depth of Field	13mil-EAN13	50-250mm	Resolution : 4mil
	4mil-code39	60-100mm	CPU: ARM 32-bit Cortex
	20mil-QR	40-300mm	Printing Contract : >25%
	10mil-PDF417	40-280mm	Decoding speed: 500/sec
Scanning angle: Angle of rotation360°, inclination± 65°, declination ± 60°			
Anti-interference: 0-100000Lux Max			
Decode Capability:			
1D: UPC-A, UPC-E, EAN-8, EAN-13, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Matrix 2 of 5, Standard 2 of 5, Coda bar, MSI Plessey, RSS, etc.			
2D: QR Code, Data Matrix, PDF417, Aztec code, Maxicode, etc.			
Temperature: -20℃-50℃(Working)		-40℃-70℃(Storage)	
Drop test : 2.0m		Interface: USB, USB-COM	
Certificate : CE, FCC, RoHS , IP54			

If the scanner does not work or buzzer rang “Di-Di-Di-Di”, please stop using the scanner and charging it immediately.

## General Settings



Restore defaults

**Note:** 2.4G barcode scanner scan "Restore defaults" to 2.4G Mode by default.

Bluetooth barcode scanner scan "Restore defaults" to Bluetooth Mode by default.

### Matching Operation(2.4G Mode)

- 1, Press the button, the buzzer rang ,the scanner starts.
- 2, Scan the “2.4G Mode” barcode, then scan the “Match” barcode.
- 3, Plug the receiver to your computer, the buzzer rang “ Di---Di”, which means 2.4G pairing is successful.
- 4, Open a text, put the cursor in, Scan any barcode to see if the barcode can be uploaded.



2.4G Mode



Match

### Matching Operation(Bluetooth Mode)

Bluetooth-related setting code apply only to Bluetooth-enabled products

- 1, Press the button, the buzzer rang ,the scanner starts.
- 2, Scan the “Bluetooth-HID Mode” barcode, then scan the “Match” barcode.
- 3, Enable bluetooth function on your device till find out “Barcode Scanner HID”, and click it to begin bluetooth pairing. Wait a few seconds, the buzzer rang “ Di”, which means bluetooth pairing is successful.
- 4, Open a text, put the cursor in, Scan any barcode to see if the barcode can be uploaded.



Bluetooth-HID Mode



Match

## To show and hide iOS keyboard



Show/Hide iOS keyboard

To show Android keyboard, it needs to install the "CILICO Bluetooth barcode input method" APP, Please contact us for the app and tutorial.)



Double click show/hide iOS  
keyboard--ON



Double click show/hide iOS  
keyboard--OFF

## SPP and BLE Mode



Bluetooth SPP Mode



Bluetooth BLE Mode

## End Mark



CR



CR+LF



Tab



None

## Working Mode



Instant upload Mode



Storage Mode

■ **Two upload mode:** Instant upload mode、storage mode.

- ▶ **Instant upload Mode:** Instant upload data to your computer  
Upload successfully: The green light flashed and the buzzer rang “Di”.
- ▶ **Storage Mode :** Scan and store barcode inside the scanner, and uploaded the data to your computer when you need it.



Show total storage  
(Show total number of memory)



Upload Data  
(Upload Data to your computer)



High upload speed -default



Low upload speed



Zero clearing (clear all data in scanner)

- 1, Save successfully: The green light flashed and the buzzer rang “Di-en”
- 2, Save failed: The red light flashed and the buzzer range “Di---en”, This indicates that there was not enough memory to save the bar code. Please upload the saved bar code by scanning “Upload Date” and then clear the Memory by scanning “Zero cleaning” .
- 3, Upload completed: the buzzer rang “Di-do-en” .

## Power and Standby Setup



Battery Reserve (show battery level)

Set the time for automatic shutdown	
 30 seconds shutdown	 2 minutes shutdown
 5 minutes shutdown-Default	 30 minutes shutdown
 Never Standby	 Standby Immediately

### ► Battery level indication

Press the button, the scanner does not respond. Please charge the scanner at least for 30 minutes. If the scanner still cannot start, this indicates that the battery is broken and needs to be replaced.

### ► LED tips during charging

Plugged the USB cable into the USB port of computer

- (1) Charging mode: the red light is on.
- (2) Charging completed: the red light goes out.

## Buzzer Setup



Volume Off



Low volume



Medium volume



High volume

## Uppercase and lowercase



All uppercase



All lowercase



Normal Letter Case

## Invoice Function



ON



OFF

## Output Interval of The Same Code

In continuous mode and automatic induction mode



Delay 1s



Delay 3s



Delay 5s



Delay 7s



None



Delay forever

## Scan Mode Setting



Trigger Mode



Continue Scan Mode



Auto Sense Mode

## Floodlight and Positioning lights

### Floodlight



Lighting when Read -default



Always Close



Always Lighting

### Positioning lights



Lighting when Read -default



Always Close



Always Lighting

## 1D code master switch



Enable



Disable

## 2D code master switch



Enable



Disable

## Reverse Code Reading



1D



QR



Data Matrix



PDF417

## Language



American Keyboard



Germany



France



Spain



Italy



Japan



Other Languages

## Hide the characters



Hide the front characters



Hide the behind characters



Hide 1 character



Hide 2 characters



Hide 3 characters



Hide 4 characters

**E.g.** The bar code content is "123456789" , if you want to hide the previous two characters.

**The first:** Scan "Hide the front characters".

**The second step:** Scan "Hide 2 characters".

**The third step:** "3456789" will be shown.

## Add Prefix and Suffix



Add Prefix



Add Suffix

**The first:** Scan "Add Prefix" or "Add Suffix" .

**The second step:** Scan need to add the character code( Appendix 1).

## Appendix 1: Character comparison table

 SOH	 LF	 F6
 ^B	 VT	 F7
 ^C	 FF	 F8
 EOT	 CR	 F9

 ENQ	 F1	 F10
 ACK	 F2	 F11
 BEL	 F3	 F12
 Back Space	 F4	 SUB

 Tab	 F5	 Esc
 Right Arrow	 %	 .
 Left Arrow	 &	 /
 Up Arrow	 ,	 0

 Down Arrow	 (	 1
 Spacebar	 )	 2
 !	 *	 3
 "	 +	 4

 #	 ,	 5
 \$	 -	 6
 7	 @	 l
 8	 A	 J

 9	 B	 K
 :	 C	 L
 ;	 D	 M
 <	 E	 N

 =	 F	 O
 >	 G	 P
 ?	 H	 Q
 R	 [	 d

 s	 \	 e
 T	 j	 f
 U	 ^	 g
 v	 _	 h

 W	 ,	 i
 X	 a	 j
 Y	 b	 k
 Z	 c	 l

 m	 s	 y
 n	 t	 z
 o	 u	 {
 p	 v	 

 q	 w	 }
 r	 x	 ~
 DEL		

**Appendix 2: ON/OFF-1**

 UPC-A(ON)	 UPC-A(OFF)
 UPC-A Check Bit (ON)	 UPC-A Check Bit(OFF)
 UPC-E(ON)	 UPC-E(OFF)
 UPC-e Check Bit(ON)	 UPC-e Check Bit(OFF)

 <p>UPC-E to UPC-A(ON)</p>	 <p>UPC-E to UPC-A(OFF)</p>
 <p>UPC-A to EAN-13(ON)</p>	 <p>UPC-A to EAN-13(OFF)</p>
 <p>EAN-8(ON)</p>	 <p>EAN-8(OFF)</p>
 <p>EAN-13(ON)</p>	 <p>EAN-13(OFF)</p>

 <p>CODE 128(ON)</p>	 <p>CODE 128(OFF)</p>
 <p>GS1-128(ON)</p>	 <p>GS1-128(OFF)</p>
 <p>ISBT-128(ON)</p>	 <p>ISBT-128(OFF)</p>
 <p>Interleaved 2 of 5 (ON)</p>	 <p>Interleaved 2 of 5(OFF)</p>

 <p>Matrix 2 of 5(ON)</p>	 <p>Matrix 2 of 5(OFF)</p>
 <p>CODE 39(ON)</p>	 <p>CODE 39(OFF)</p>
 <p>Code39 Check Bit(ON)</p>	 <p>Code39 Check Bit(OFF)</p>
 <p>Code 39 Full ASCII(ON)</p>	 <p>Code39 Full ASCII(OFF)</p>

 <p>CODE 32(ON)</p>	 <p>CODE 32(OFF)</p>
 <p>CODE 93(ON)</p>	 <p>CODE 93(OFF)</p>
 <p>CODE 11(ON)</p>	 <p>CODE 11(OFF)</p>
 <p>CODABAR(ON)</p>	 <p>CODABAR(OFF)</p>

 <p>PLESSEY(ON)</p>	 <p>PLESSEY(OFF)</p>
 <p>Industrial 2 of 5(ON)</p>	 <p>Industrial 2 of 5(OFF)</p>
 <p>MSI(ON)</p>	 <p>MSI(OFF)</p>
 <p>ITF14(ON)</p>	 <p>ITF14(OFF)</p>

 <p>QR CODE(ON)</p>	 <p>QR CODE(OFF)</p>
 <p>Data Matrix(ON)</p>	 <p>Data Matrix(OFF)</p>
 <p>PDF417(ON)</p>	 <p>PDF417(OFF)</p>
 <p>Aztec code(ON)</p>	 <p>Aztec code(OFF)</p>

 <p>Maxi code(ON)</p>	 <p>Maxi code(OFF)</p>
 <p>GS1-Databar(ON)</p>	 <p>GS1-Databar(OFF)</p>
 <p>Hanxin code(ON)</p>	 <p>Hanxin code(OFF)</p>
 <p>Brazilian Bank code(ON)</p>	 <p>Brazilian Bank code(OFF)</p>