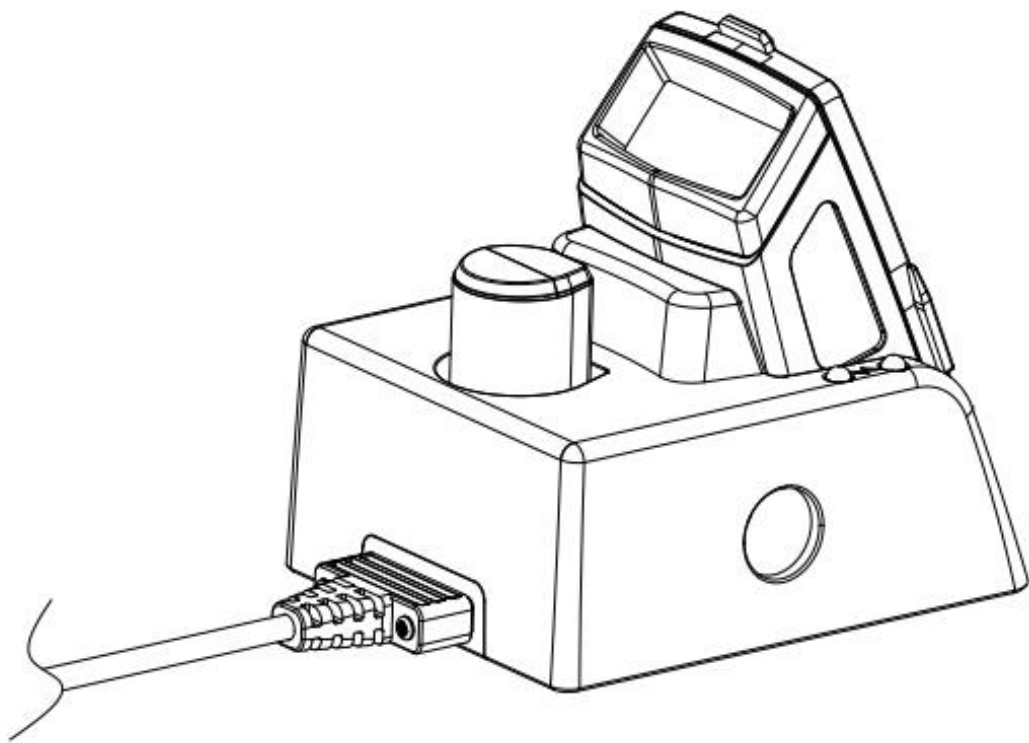


NS02

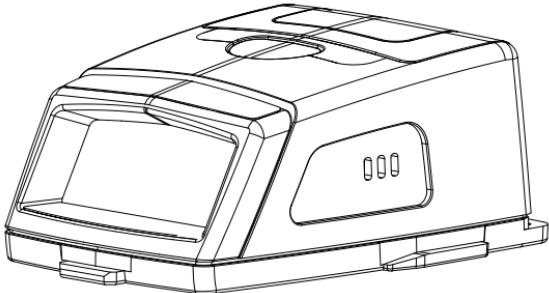
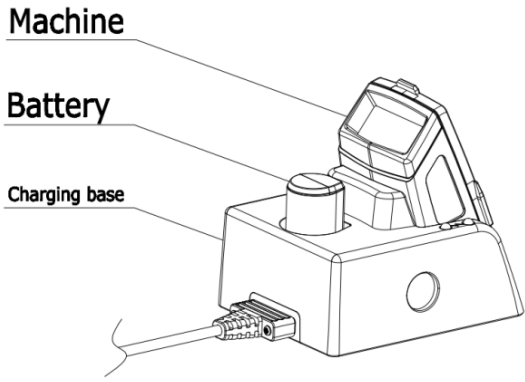
Bluetooth barcode reader

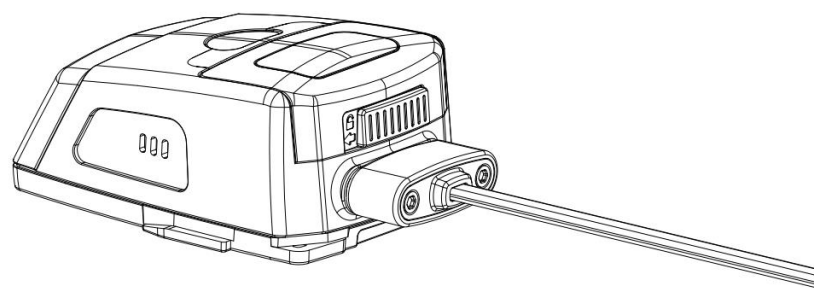
User Manual



1. Features

Table 1

Model	Features	Picture
NS02	<ul style="list-style-type: none"> ●Industrial Ring type 2D barcode reader ●Bluetooth HID, SPP, BLE(optional) mode, offline data upload feature ●Support NFC pairing connection ●with vibration, sound prompts ●Using Zebra SE2707 scanning engine (optional) ●Top touch scan button ●550mAh rechargeable and replaceable battery, 24 hours uninterrupted work ●PC + TPU overmolded housing, industrial-grade strength ●IP65 rating against dust and water ●2,000 3.28 ft./1m tumbles ●1.5m drop test (200 times) 	 <p>Dimensions: 55.0×39.2×24.4mm (L×W×H)</p> <p>Weight: 45g</p>
Charger (Optional)	<ol style="list-style-type: none"> 1. The battery can be simultaneously charged with the reader; 2. May be used in series, the number of series of up to 5; 3. To act as a Bluetooth adapter can achieve function (optional); 4. Quickly pair by scanning the code, support up to 1 drag 5. 	



2. Guide

2.1 On & Off

Turn on: Touch the button twice.

Shutdown: Standby can automatically shut down after 20min(Standby time can be set).

2.2 Buzzer and LED State

Table 2

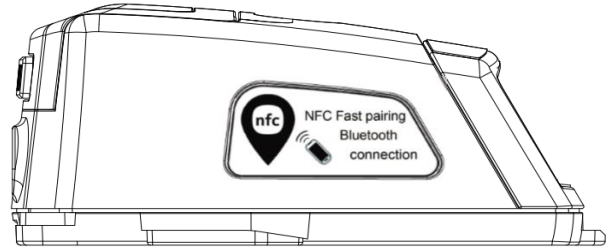
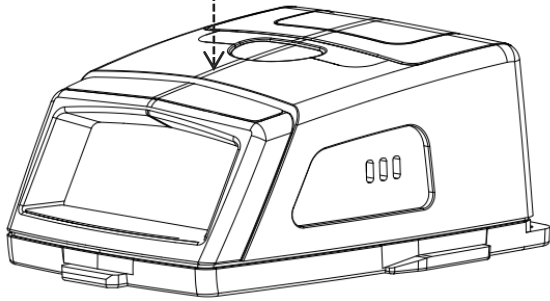
LED light and buzzer status	Description
Green light on and off immediately and make a short sound	Read barcode successfully
Green light turns on and off every 1 second	Alert battery low
Blue light flashes quickly	Enter into HID paring state
Blue light flashes slowly	Enter into SPP paring state
Blue light flashes twice slowly	Enter into BLE paring state
Blue light goes out after Bluetooth pairing	Bluetooth pairing succeeded
Red light is always on	Charging state
The red light goes out during charging	Full battery

2.3 Touch key position and NFC tag position

Table 3

A. Touch button position	B. NFC tag location
--------------------------	---------------------

Touch button



3. Parameters

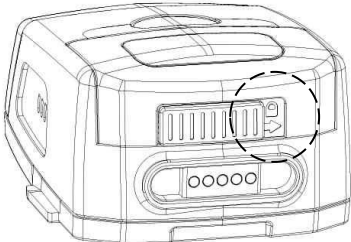
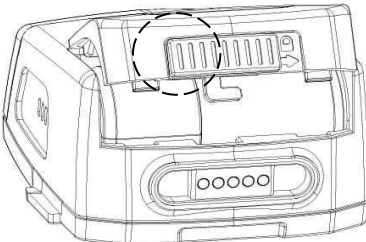
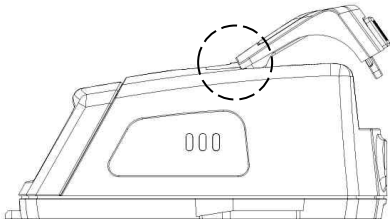
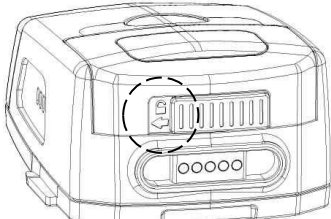
Table 4

Electrical	Power: DC5V/1A;Operating Current Typical: 300mA			
MCU	ARM Cortex 32bit			
Data storage	100KB for offline mode: 6000 15 bytes barcodes(Other flash is optional).			
Working mode	Bluetooth mode, offline mode and RS232 mode(optional)			
Communication	Bluetooth HID, SPP, BLE(optional) with 30M distance, Support NFC pairing, RS232 cable(optional)			
OS	IOS, Android, Windows, Mac, linux			
Battery powered	Capacity: 550mAh	Standby: > 30 days		Charge time: 2 hours
	Duration	Continuous trigger scanning interval	Decoding number	Working time
		1S	16800	4.7hours
		5S	6400	8.9hours
		10S	3700	10.3hours
Scan Engine	■SE2707	□SE4710	□SE965	□N1
Scan mode	Manual mode, Continuous, Host, Sense mode			
Ambient illumination	0~107,639 lux			
Scanner performance	Sensor Type	640 (horizontal) × 400 (vertical) pixels		
	Light	610nm LED(Aiming LED), 660nm red LED(Illumination)		
	Scanner Angle	±60°,±60°,±360°(skew, pitch, Roll)		
	Field of view	Horizontal: 42° , Vertical: 28°		
	Contrast	≥20%		
Barcode Type	1D	UPC-A, UPC-E, UPC-E1, EAN-8/JAN-8, EAN-13/JAN-13, Bookland EAN, ISSN EAN,Code 128, GS1-128(formerly UCC/EAN-128), ISBT 128, Check ISBT Table, Code 128 Reduced Quiet Zone, Code 39, Trioptic Code 39, Convert Code 39 to Code 32, Code 32 Prefix, Code 39 Check Digit Verification, Code 39 Full ASCII, Code 39 Reduced Quiet Zone, Code 93, Code 11, Interleaved 2 of 5, I 2 of 5 Readuced Quiet Zone, Discrete 2 of 5, Codabar(NW-7), CLSI Editing, NOTIS Editing, MSI, Chinese 2 of 5, Matrix 2 of 5, GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, Convert GS1 DataBar to UPC/EAN/JAN, Composite CC-C, Composite CC-A/B, Composite TLC-39, GS1-128 Emulation Mode for UCC/EAN Composite Codes		
	2D	PDF417, MicroPDF417, Code 128 Emulation, Data Matrix, Maxicode, QR Code, Micro QR, Aztec, HanXin, US Postnet, US Planet, UK Postal, Japan Postal, Australia Post, Netherlands KIX Code, USPS 4CB/One Code/Intelligent Mail, UPU FICS Postal		
Decoding depth & Max. Resolution	Code 39	51mm -162mm (5mil);		
	Code 128	63mm -127mm (5mil);		

(1 mil = 0.0254 mm)	PDF417	63mm -160mm (6.6mil);
	PDF417	45mm - 228mm (10mil);
	100%UPC	50mm -317mm (13mil);
	Code 39	50mm - 495mm (20mil);
	Data Matrix	38mm - 343mm (20mil);
	QR Code	38mm -279mm (20mil).
Environmental parameters	temperature	Operating : -5°C to 50°C
	Humidity	Storage: -20°C to 60°C
		5% to 90% (non-condensing)

4. Detachable battery

Table 5

Removal	
A. Push the push button to the left in the direction of the arrow	B. Keep the push button on the left and push the battery cover up to open the battery cover and take out the battery.
	
Mounting	
A. Put the battery electrode down, put it into the battery slot, and insert the 2 buckles on the battery cover into the holes on the machine.	B. Keep the push button pushed to the left, close the battery cover, press the battery cover and push the push button back to the right. (The picture shows the state has not been pushed back to the right.)
	

5. Machine disassembly

Table 6

Install the machine	Remove the machine
Align the protruding fin buckle on both sides of the machine with the slot on the glove, gently press the machine and push it to the end, the installation is successful.	Press down the tail buckle, pinch the sides of the machine, and slide it out.
