

# NS02

## Bluetooth Barcode Reader



## Product feature:

### 1. Zebra Scan Engine

Excellent scan speed for almost 2D / 1D barcodes

### 3. High Degree Of Protection

IP65 grade, waterproof and dustproof function enhance its durability

### 5. Optional BLE / NFC Communication

IP65 grade, waterproof and dustproof function enhance its durability

### 7. Battery Cover Turn-Off / On

Flexible buckle turn on / off for battery cover makes it very convenient to remove the battery

### 2. Ruggedness

Polycarbonate housing with overmold (PC+TPU), 1.5m drop test 200 times

### 4. Sufficient Battery Life

550mAh replaceable & rechargeable battery for more than 12 hours working time

### 6. Standard Charging Cradle

Charger & Charger with bluetooth adapter function for the battery & the whole device

# PRODUCT SPEC SHEET



|                      |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |              |
|----------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| <b>Product name</b>  | Bluetooth Barcode Reader                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |              |
| <b>Model name</b>    | NS02                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |              |
| <b>Dimensions</b>    | 57.0×42.0×24.4 mm (L×W×H)                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |              |
| <b>Weight</b>        | 45 grams                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |              |
| <b>Material</b>      | Polycarbonate housing with overmold( PC+TPU)                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |              |
| <b>Battery power</b> | Capacity                                                                                              | 550mAh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              |
|                      | Standby                                                                                               | >30 days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |              |
|                      | Charge time                                                                                           | 2 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |              |
|                      | Duration                                                                                              | Continuous trigger scanning interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Decoding number | Working time |
|                      |                                                                                                       | 5S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5222            | 7.2 hours    |
| <b>Scan Engine</b>   | <input checked="" type="checkbox"/> SE4710 <input type="checkbox"/> SE965 <input type="checkbox"/> N1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |              |
| <b>Barcode Type</b>  | 1D                                                                                                    | UPC-A, UPC-E, UPC-E1, EAN-8/JAN-8, EAN-13/JAN-13, Bookland EAN, ISSN EAN, EAN/JAN Zero Extend, UCC Coupon Extended Code, UPC Reduced Quiet Zone, Code 128, GS1-128 (formerly UCC/EAN-128), ISBT 128, ISBT Concatenation, 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, Transmit Code 39 Check Digit, Code 39 Full ASCII Conversion, Code 39 Reduced Quiet Zone, Code 93, Code 11, Transmit Code 11 Check Digits, Interleaved 2 of 5 (ITF), Transmit I 2 of 5 Check Digit, Convert I 2 of 5 to EAN-13, Febraban, I 2 of 5 Reduced Quiet Zone, Discrete 2 of 5 (DTF), Codabar (NW - 7), CLSI Editing, NOTIS Editing, Codabar Mod 16 Check Digit Verification, Transmit Codabar Check Digit, MSI, Transmit MSI Check Digit(s), MSI Reduced Quiet Zone, Chinese 2 of 5, Matrix 2 of 5, Matrix 2 of 5 Check Digit, Korean 3 of 5, GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, Convert GS1 DataBar to UPC/EAN/JAN, CC-C, CC-A/B, TLC-39, GS1-128 Emulation Mode for UCC/EAN Composite Codes |                 |              |
|                      | 2D                                                                                                    | PDF417, MicroPDF417, Code 128 Emulation, Data Matrix, GS1 Data Matrix, Maxicode, QR Code, GS1 QR, MicroQR, Aztec, Han Xin, Grid Matrix, DotCode, DotCode Prioritize, Transmit Macro PDF Control Header, US Postnet, US Planet, UK Postal, Japan Postal, Australia Post, Netherlands KIX Code, USPS 4CB/One Code/Intelligent Mail, UPU FICS Postal, Mailmark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |              |

|                                 |                                                                                       |                                                    |
|---------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Electrical</b>               | Power: DC5V/2A;<br>Operating Current Typical: 300mA                                   |                                                    |
| <b>MCU</b>                      | ARM Cortex 32bit                                                                      |                                                    |
| <b>Data storage</b>             | 100KB for offline mode:<br>6000 15 bytes barcodes(optional)                           |                                                    |
| <b>Working mode</b>             | Bluetooth mode, offline mode(optional), RS232 mode(optional), USB Keyboard(optional)  |                                                    |
| <b>Communication</b>            | Bluetooth HID, SPP, BLE with 30M distance, Support NFC pairing, RS232 cable(optional) |                                                    |
| <b>OS</b>                       | IOS, Android, Windows, Mac, linux                                                     |                                                    |
| <b>Scan mode</b>                | Standard (Level), Presentation (Blink), Auto Aim, Auto Aim with Illumination          |                                                    |
| <b>Ambient illumination</b>     | Max 107,639 lux (direct sunlight)                                                     |                                                    |
| <b>Scanner performance</b>      | Sensor Type                                                                           | 1280 (horizontal) × 800 (vertical) pixels          |
|                                 | Light                                                                                 | 610nm LED(Aiming LED), Red 660nm LED(Illumination) |
|                                 | Scanner Angle                                                                         | ±60°, ±60°, ±360° (skew, pitch, Roll)              |
|                                 | Field of view                                                                         | Horizontal: 42° , Vertical: 28°                    |
|                                 | Contrast                                                                              | ≥20%                                               |
| <b>Certificate</b>              | CE, FCC, IP65, IEC, MSDS, UN38.3                                                      |                                                    |
| <b>Environmental parameters</b> | Drop Resistance                                                                       | Pass 200 times 1.5m drop test                      |
|                                 | Temperature                                                                           | Operating : -5°C to 50°C<br>Storage: -20°C to 60°C |
|                                 | Humidity                                                                              | < 95% (non-condensing)                             |

| Decoding depth & Max. Resolution<br>(1 mil = 0.0254 mm) |                  | Near             | Far               |
|---------------------------------------------------------|------------------|------------------|-------------------|
|                                                         | 4mil Code 39     | 3.3 in / 8.4 cm  | 8.8 in / 22.4 cm  |
|                                                         | 5mil Code 128    | 2.8 in / 7.1 cm  | 8.2 in / 20.8 cm  |
|                                                         | 5mil Code 39     | 2.0 in / 5.08 cm | 13.5 in / 34.3 cm |
|                                                         | 5mil PDF417      | 3.1 in / 7.9 cm  | 8.4 in / 21.3 cm  |
|                                                         | 10mil DataMatrix | 2.9 in / 7.4 cm  | 10.1 in / 25.7 cm |
|                                                         | 100% UPCA        | 1.8 in / 4.6 cm  | 26.0 in / 66.0 cm |
|                                                         | 20mil Code 39    | 2.0 in / 5.08 cm | 30.0 in / 76.2 cm |



Shenzhen Effen Ltd

Tel: 86 0755 23229300

Fax: 86 0755 23229300

Email: info@effon.com

Website: www.effon.com