



Barcode Scanner

# SC312

Scanner Expert



Cable Length  
2m



Scanner Support  
1D/2D



Weight  
145g



Warranty  
2 years



Drop Resistance  
1.5m



Sealing Standard  
IP42



Warehouse



Manufacturing



Retail



# SC312

## Specification

Update Date: 2020. 7. 31

### Processor

- Arm-Cortex A7@800 Mhz

### Interface Versions

- RS232, USB

### Communication

- RS232: DB9 pin (with external power supply)
- USB: ver. 2.0, HID/VCP, USB-A connector

### Supported Symbologies

- Barcode (1D):  
JAN/UPC/EAN incl. add on, Codabar / NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), GS1 DataBar Limited, GS1 Databar Expanded, IATA, Industrial 2 of 5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/ Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic
- Postal code:  
Intelligent mail Barcode, korean Postal Authority code, POSTNET PLANET, Japan Postal, Netherland KIX Code, UK Postal, Australian Postal Code
- 2D code:  
Intelligent Aztec Code, Chinese Sensible code, Codablock F, Data Matrix (ECC 200/ECC-000-140), Maxi Code, MicroPDF417, Micro QR Code, PDF417, QR code, Passport MRZ (OCR-B)

### Barcode Scanner Optics

- Light source : Aiming green LED, warm white illumination LED
- Scan method : CMOS area sensor, 640 x 480 pixels
- Scan rate : Up to 100 fps
- Trigger mode : Manual, auto-trigger, stand detection
- Reading pitch angle :  $\pm 65^\circ$
- Reading skew angle :  $\pm 65^\circ$
- Reading tilt angle :  $360^\circ$
- Curvature :  $R \geq 20$  mm (UPC 12)
- Min. resolution at PCS 0.9 : 0.1 mm / 3.9 mil
- Min. PCS value : 0.2
- Field of view : Horizontal  $38.0^\circ$ ,  
Vertical  $26.4^\circ$
- Depth of field at code 39 :
  - 23 ~ 74 mm (0.127 mm) / 0.91 ~ 2.91 in (5 mil)
  - 26 ~ 173 mm (0.254 mm) / 1.02 ~ 6.81 in (10 mil)
  - 48 ~ 335 mm (0.508 mm) / 1.89 ~ 13.19 in (20 mil)
- Depth of field at code 128 : 41 ~ 129 mm (0.2 mm) / 1.61 ~ 5.08 in (7.87 mil)
- Depth of field at UPC : 26 ~ 212 mm (0.33 mm) / 1.02 ~ 8.35 in (13 mil)
- Depth of field at PDF417 :
  - 21 ~ 93 mm (0.169 mm) / 0.83 ~ 3.66 in (5 mil)
  - 17 ~ 146 mm (0.254 mm) / 0.67 ~ 5.75 in (10 mil)
- At QR Code :
  - 37 ~ 63 mm (0.169 mm) / 1.45 ~ 2.48 in (5 mil)
  - 0 ~ 132 mm (0.381 mm) / 0 ~ 5.2 in (15 mil)
- At DataMatrix :
  - 39 ~ 65 mm (0.169 mm) / 1.54 ~ 2.56 in (5 mil)
  - 19 ~ 113 mm (0.254 mm) / 0.75 ~ 4.45 in (10 mil)

### Power

- Voltage requirement :  $5V \pm 10\%$  (USB), 4.5 ~ 6.5V (RS232C)
- Current consumption : Typical 400 mAh

### Indicator

- Visual : 1 white LED
- Non-visual : buzzer

### Keys

- 1 scan key

### Dimensions and Weight

- Dimensions: 75.4 mm\* 169.5mm\* 121.2 mm
- Weight: 145g
- Cable length: 2m

### User Environment

- Operating Temperature: - 5~50°C
- Storage Temperature: -30~60°C
- Humidity in operation: 5%~90% non-condensing
- Humidity in storage: 5%~90% non-condensing
- Ambient light immunity: Fluorescent 10,000 lx max, direct sun 100,000 lx, Incandescent 10,000 lx
- Sealing standard: IP42
- Drop resistance: 1.5m onto concrete surface
- Vibration: 10 - 100Hz with 2G for 1 hour

### Regulatory Compliance

- CE/ FCC/ BSMI