



Barcode Scanner

# SC312

Scanner Expert



Scan Imager  
1D/2D



Global Shutter  
640 x 480 pixel



Drop Spec.  
1.5m



Sealing  
IP42



Weight  
145g



Warranty  
2 years



Warehouse



Manufacturing



Retail



# SC312

## Specification

Update Date: 2021. 04.29

### Physical Characteristics

**Dimensions** 75.5 mm\* 184mm\* 93 mm

**Weight** 145g

**Color** Black

**Cable Length** 2m

**Keys** 1 scan key

**Indicators**

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

### Performance Characteristics

**Processor** Arm-Cortex A7@800 Mhz

**Light Source** Aiming green LED, warm white illumination LED

**Image Sensor** CMOS area sensor, 640 x 480 pixels

**Minimum Print Contrast (PCS)** Up to 0.20 ( 20% minimum print contrast ratio)

**Scan Rate** Up to 100 frames per second

**Trigger Mode** Manual, auto-trigger, stand detection

**Pitch/Skew/Tilt Tolerance**

- Pitch :  $\pm 65^\circ$
- Skew:  $\pm 65^\circ$
- Tilt :  $360^\circ$

**Field of View**

- Horizontal:  $38^\circ$
- Vertical:  $26.4^\circ$

### Decode Capabilities

**Scan Imager** 1D/2D

**Supported Symbolologies**

- **Barcode (1D):**  
JAN/UPC/EAn incl. add on, Codabar / NW7, 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 2 of 5, ISBN-ISMN-ISSN, Matrix 2 of 5, 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)

**Curvature**  $R \geq 20$  mm (UPC 12)

**Resolution** Min. resolution at PCS 0.9 : 0.1 mm / 3.9 mil

**Decode Ranges**

- **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)

### Communication Interfaces

**Supported Host Interfaces**

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

### Power

**Voltage Requirement**  $5V \pm 10\%$  (USB), 4.5 ~ 6.5V (RS232C)

**Power Consumption** 60 mA/175 mA in Auto-trigger OFF/ON mode, 400mA during reading operation (Manual mode)

### User Environment

**Operating Temp.**  $-5 \sim 50^\circ\text{C}$

**Storage Temp.**  $-30 \sim 60^\circ\text{C}$

**Operating Humidity** 5%~90% non-condensing

**Storage Humidity** 5%~90% non-condensing

**Ambient Light Immunity** Fluorescent 10,000 lx max, Direct sun 100,000 lx, Incandescent 10,000 lx

**Sealing** IP42

**Drop Specification** 1.5m onto concrete surface

**Vibration Test** 10 - 100Hz with 2G for 1 hour

### OS Support

**OS Support** Windows(XP above), iOS, Linux, Android

### Regulatory Compliance

**Certification** CE/ FCC/ BSMI

### Accessories

**Accessories**

- USB cable
- Stand (optional)

### Warranty

**Warranty** 2 Years