iMozen group

Barcode Scanner

SC511

Lightweight and Affordable with Fast Barcode Scanning

Scan Imager
1D/2D

Global Shutter
640 x 480 pixel

Drop Spec.
1.5m

Weight
120g

Cable Length
1.5m

Warehouse

Manufacturing

Retail

SC511
Specification

Update Date: 2023. 07.04

Physical Characteristics

Dimensions	70 mm*173.3mm*72.6 mm
Weight	120g (without cable)
Color	Black
Cable Length	1.5m
Keys	1 scan key
Indicators	• Visual : 1 red LED , 1 blue LED • Non-visual : buzzer

Performance Characteristics

Light Source	Aiming red LED, warm white illumination LED
Image Sensor	640 x 480 pixels
Minimum Print Contrast (PCS)	Up to 0.25 (25% minimum print contrast ratio)
Scan Rate	Up to 60 frames per second
Trigger Mode	Manual, auto-trigger
Pitch/Skew/Tilt Tolerance	• Pitch : ±65° • Skew: ±55° • Tilt angle : 360°
Field of View	• Horizontal: 40° • Vertical: 30°

Decode Capabilities

Scan Imager	1D/2D
Supported Symbologies	• Barcode (1D): All UPC/EAN/JAN, Code 39, Code 39 full ASCII, Code 32 , Code 128, CODABAR, Interleaved 2 of 5, Industrial 2 of 5,Matrix 2 of 5, Code 93, GS1 databar,GS1 databar limited,GS1 databar expanded • 2D code: PDF417, Micro PDF417, Data Matrix, QR Code, Micro QR Code, Aztec
Resolution	• 4mil (Code 39), 6.7mil (PDF417) • Min. resolution: 30 mm / 4 mil(Code 39)
Decode Ranges	• Focusing Distance: 30-140mm (4mil), 40-260 (13mil) • Depth of field at code 39 : 30 ~ 140 mm (4mil) • Depth of field at PDF417 : 30~110mm (6.7mil) • Depth of field at QR Code : 40 ~90 mm (8.34mil) • Depth of field at DataMatrix : 40 ~90 mm (8.34mil)

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 ± 10% (USB), 4.5 ~ 6.5V (RS232C)
Power Consumption	120mA during reading operation,50mA during standby time

User Environment

Operating Temp.	0~40℃
Storage Temp.	-40~70℃
Operating Humidity	10%~95% non-condensing
Storage Humidity	10%~85% non-condensing
Ambient Light Immunity	Fluorescent 10,000 lx max, Direct sun 100,000 lx, Incandescent 10,000 lx
Drop Specification	1.5m onto concrete surface

OS Support

OS Support	Windows(XP above), iOS, Android(4.0 above)

Regulatory Compliance

Certification	CE/ BSMI

Accessories

Accessories	• Cable • Stand (optional)