

CS8501 Portable 2D Barcode Scanner



PRODUCT OVERVIEW

Model	CS8501
Product Type	Barcode Scanner

Scanning Performance	
Decode Capabilities	1D/2D
Scan Engine	CMOS
Sensor Resolution	1280 (H) × 1080 (V)
Illumination	Illumination (Whitelight): IEC 62471 Crosshair aimer (Red)
Aiming System	Crosshair aimer (Red)
Acquisition Rate	Up to 120 frames/s
Motion Tolerance	6 m/s [19.7 ft/ s]
Minimum Element Resolution	1D:≥3 mil 2D:≥5 mil
Minimum Print Contrast	≥20%(UPC/EAN 100%, PCS 90%)
Field of View	Horizontal: 43°(H), Vertical: 36°(V)
Angular Tolerance	Horizontal: 43°(H), Vertical: 36°(V) Pitch: 360°, Skew: ±60°, Pitch: ±60°
Depth of Field	QR (5 mil) 40 mm~100 mm Code39(3 mil) 35 mm~140 mm Code39(5 mil) 35 mm~190 mm EAN(13 mil) 50 mm~330 mm
Supported Symbolologies	1D: UPC A, UPC E, EAN 8, EAN 13, Code 128, Code 39, Code 93, Code 32, Code11, Codabar, Plessey, MSI, Interleaved 2 of 5 IATA 2 of 5, Matrix 2 of 5, Straight 2 of 5, Pharmacode, GS1 DataBar 14, GS1 DataBar Expanded, GS1 DataBar Limited, Composite Code A, Composite Code B, Composite Code C 2D: Data Matrix, QR Code, Micro QR, PDF417, Micro PDF417, Aztec, MaxiCode, Han Xin Code
Trigger Modes	Manual trigger, Continuous mode, Presentation mode, Host-command trigger

Connectivity & Wireless	
Connectivity	Wired, Wireless, 2.4 GHz, Bluetooth Wired, 2.4 GHz wireless, Bluetooth (supported versions 2.0, 3.0, 4.0, 4.2) 2.4 GHz, USB HID (USB COM), Bluetooth (HID, SPP, BLE)
Host Interfaces	USB Standard USB interface
Wireless Range	2.4 GHz: 65 m Bluetooth: 20 m
Onboard Memory	64kb~2M

Power	
Battery Capacity	2000 mAh
Operating Time	3 minutes to enter standby
Standby Time	3 minutes to enter standby
Charge Time	Approx. 5 hours 5V 1~2A
Operating Voltage	5V±5% 170 mA ±5% (Typical),260 mA ±5% (Maximum) 0.6µA

Physical Specifications	
Dimensions	137 × 50 × 38
Weight	Approx. 129 g
Enclosure Material	Elastomer: TPU Rigid housing: ABS
Color Options	White, Blue
Cable Length	Type-C Cable length: 1.2 m
Stand Included	No
User Feedback	Buzzer, Vibration

Environmental & Compliance	
IP Rating	IP54
Drop Resistance	Withstands a 1.5 m drop to concrete
Operating Temperature	-20°C~+60°C
Certifications	CE, RoHS, FCC