

CS9501 Portable 2D Barcode Scanner with Zebra Scan Engine



PRODUCT OVERVIEW

Model	CS9501
Product Type	Barcode Scanner

Scanning Performance	
Decode Capabilities	1D/2D
Scan Engine	CMOS
Image Sensor	CMOS
Sensor Resolution	CMOS 1280 x 960
Illumination	aiming: Green LED Illumination: Warm-white LED
Aiming System	Illumination: Warm-white LED
Minimum Element Resolution	1D≥3 mil 2D≥5 mil
Minimum Print Contrast	≥25%
Angular Tolerance	Horizontal: 42° Vertical: 28°
Depth of Field	4 mil Code 39 3.3 in/8.4 cm (near range) 8.8 in/22.4 cm (far range) 5 mil Code 128 2.8 in /7.1 cm (near range) 8.2 in/20.8 cm (far range) 5 mil Code 39 2.0 in/5.08 cm (near range) 13.5 in/34.3 cm (far range) 5 mil PDF417 3.1 in/7.9 cm (near range) 8.4 in/21.3 cm (far range) 10 mil DataMatrix 2.9 in/7.4 cm (near range) 10.1 in/25.7 cm (far range) 100% UPCA 1.8 in/4.6 cm (near range) 26.0 in/66.0 cm(far range) 20 mil Code 39 2.0 in/5.08 cm(near range) 30.0 in/76.2 cm (far range)
Supported Symbolologies	2D PDF417, MicroPDF417, Code 128 Emulation, QR Code, MicroQR, Data Matrix, MaxiCode, Aztec 1D Code128 (UCC/EAN-128, GS1-128, ISBT 128), UPC/EAN(UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, ISBN, ISSB EAN), Code39, Code32, Code93, Code11, Interleaved 2 of 5 (ITF), Discrete 2 of 5 (DTF), Codabar (NW-7) MSI, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, Inverse 1D, Postal Codes, GS1 DataBar, Composite
Trigger Modes	Manual trigger, Continuous mode, Presentation mode 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. 130 g
Enclosure Material	Elastomer: TPU Rigid housing: ABS
Color Options	Black, Red
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