

GY-20U Industrial 2D Barcode Scanner



PRODUCT OVERVIEW

Model	GY-20U
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 2.4 GHz wireless+Bluetooth (supported versions 2.0, 3.0, 4.0, 4.2) USB HID (USB COM), RS232serial port, Bluetooth (HID, SPP, BLE)
Host Interfaces	USB, RS232 Standard USB interface, RS232serial port
Wireless Range	2.4 GHz: 300 m (with AP extended-range transmission) Bluetooth: 20 m
Onboard Memory	64kb~2M

Power	
Battery Capacity	3200 mAh (Standardtwo batteries)
Operating Time	3 minutes to enter standby
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Charge Time	Approx. 5 hours 5V 1~2A
Operating Voltage	5V±5% 300 mA ±5% (Typical),500 mA ±5% (Maximum) 0.6μA

Physical Specifications	
Dimensions	198 × 74 × 105
Weight	Scanner: Approx. 346 g Cradle: Approx. 492 g battery: Approx. 58 g
Enclosure Material	Elastomer: TPU Rigid housing: ABS
Color Options	Black, Blue
Cable Length	Cable length: 2 m, cable gauge: 5 mm, with ferrite core+shielded
Stand Included	No
User Feedback	Buzzer, Vibration

Environmental & Compliance	
IP Rating	IP67
Drop Resistance	Withstands a 3 m drop to concrete
Certifications	CE, RoHS, FCC