

GY-50U USB Industrial 2D Barcode Scanner



PRODUCT OVERVIEW

Model	GY-50U
Product Type	Barcode Scanner

Scanning Performance

Decode Capabilities	1D/2D
Scan Engine	CMOS
Sensor Resolution	two 1280 pixels (H)x 1080 pixels (V)
Illumination	Redlight (mid-focus), Whitelight (far-focus) LaserdotAiming
Aiming System	LaserdotAiming
Minimum Element Resolution	0.127(5 mil)@Code 39, PCS=90%
Minimum Print Contrast	>20% (UPC/EAN 100%, PCS 90%)
Field of View	mid range: Horizontal 28.0° (V), Vertical 22.0° (H) far range: Horizontal 11.5° (V), Vertical 9.0° (H)
Angular Tolerance	mid range: Horizontal 28.0° (V), Vertical 22.0° (H) far range: Horizontal 11.5° (V), Vertical 9.0° (H) Pitch: 360°, Skew: ±60°, Pitch: ±60°
Depth of Field	Code 39 (5 mil)5 cm~32 cm EAN/UPC (13 mil) 5.5 cm~190 cm EAN/UPC (15.6 mil) 7 cm~210 cm Code 128 (40 mil) 38 cm~400 cm QR (20 mil) 5.5 cm~140 cm DM (200 mil) 100 cm~1000 cm reading performance may be affected by barcodebarcode quality or environmental conditions
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, Dotcode
Trigger Modes	Manual trigger, Continuous mode, Presentation mode, Host-command trigger

Connectivity & Wireless

Connectivity	Wired USB HID (USB COM)
Host Interfaces	USB Standard USB interface

Power	
Operating Voltage	5V±5% 260 mA ±5% (Typical), 380 mA ±5% (Maximum) 110 mA (Maximum)

Physical Specifications	
Dimensions	198 × 74 × 105
Weight	Approx. 390 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
Operating Temperature	-20°C~+60°C
Certifications	CE, RoHS, FCC