

GY-80U

Handheld Wireless 2D Industrial Scanner



Product Description

GY-80U is a handheld wired 2D barcode scanner launched by NETUM suitable for industrial environments. It is equipped with a 1280*1080 megapixel C-MOS sensor with excellent scanning recognition.

GY-80U has an IP67 industrial grade, and it can maintain good working condition for a long time in a humid or dusty working environment.

GY-80U adopts a high-strength soft TPU and hard ABS two-color shell design. The internal components are designed for harsh working environments. Even if an accidental collision occurs, it will not cause damage to the product.

The overall design of GY-80U is fully in line with industrial applications. The internal decoding engine is equipped with high-brightness LEDs and high-quality photosensitive modules. Its theoretical design life can reach 100,000 hours, which greatly improves the life of the whole machine.

Product Features

GY-80U high-performance barcode recognition technology can efficiently read barcodes of various code systems. The algorithm is highly robust and can effectively deal with situations such as dirty, defective, and low-contrast barcodes. It uses a 1.3MP global shutter sensor and a lighting system to ensure excellent image quality. It comes with LED aiming to clearly indicate the target field of view.

GY-80U is suitable for scanning DPM codes, including PCB hollow codes, reflective metal laser codes, casting surface needle codes, surface oil engraving codes, resin laser codes, cylindrical laser codes....

GY-80U has an IP67 industrial protection level and is suitable for various complex industrial environments

The USB data cable uses a detachable cable connection for more reliable is suitable for various complex industrial environments

The USB data cable uses a detachable cable connection for more reliable

GY-80U Specification

1 Optical Performance		
1.1	Resolution:	1280 × 1024
1.2	Illumination:	White LED
1.3	Focus Assist:	Red LED
1.4	Frame Rate:	Up to 50 fps
1.5	Motion Tolerance:	6m/s [19.7 ft/ s]
1.6	Field of View (FOV)	40°(H), Vertical: 34°(V)
1.7	Scanning Angles:	Tilt: 360°, Skew: ±60°, Pitch: ±60°
1.8	Supported Symbologies:	1D: Code 39, Code 93, Code 128, Codabar, EAN-8, EAN-13, ITF-25, ITF-14, UPC-A, UPC-E, etc. 2D: Data Matrix, QR Code, PDF417, etc. DPM Codes: PCB cut-out codes, reflective metal laser-etched codes, dot peen on cast surfaces, engraved codes on oily surfaces, resin laser-etched codes, cylindrical surface laser codes, etc.
1.9	Read Range (Typical):	Code 39 (3 mil): 45 ~ 80 mm Code 39 (5 mil): 35 ~ 100 mm Data Matrix (5 mil): 45 ~ 75 mm Data Matrix (10 mil): 45 ~ 220 mm EAN13 (13 mil): 60 ~ 400 mm
1.2.0	Decoding Precision:	1D: ≥3 mil 2D: ≥4 mil
1.2.1	Print Contrast:	≥20%(UPC/EAN 100% , PCS 90%)
2 Wireless Parameters		
2.1	Wireless method:	2.4G wireless + Bluetooth (supports protocols 2.0, 3.0, 4.0, 4.2)
2.2	2.4 GHz	300 m line of sight (with AP for long-distance transmission)
	Bluetooth:	20 m line of sight
2.3	Battery Capacity	3200 mAh (standard with two batteries)
2.4	Charging Time:	Approximately 5 hours
2.5	Standby Activation:	Enters standby after 3 minutes of inactivity
2.6	Charging Input:	5V 1~2A
3 Electrical Characteristics		
3.1	Operating Voltage:	5V±5%
3.2	Standby Current:	0.6μA
3.3	Operating Current:	360 mA ±5% (maximum)
4 Operational Features		
4.1	Interfaces:	Standard USB interface, RS232 serial port
4.2	Communication Modes:	USB HID (USB COM), RS232 serial port, Bluetooth (HID, SPP, BLE)
4.3	Notification Modes	Buzzer, Vibration
4.4	Scanning Modes	Trigger scan*, continuous scan, auto-sensing scan, command-triggered scan, etc.
5 Physical Parameters		
5.1	Dimensions (L × W × H):	198*74*105

5.2	Weight: Scanner:	≈ 346g, Base: ≈ 492g, Battery: ≈ 58g
5.3	Cable:	Length: 2m, Diameter: 5mm
5.4	Color:	Soft Rubber: Black Hard Plastic: Gray
5.5	Housing Material:	Soft Rubber: TPU Hard Plastic: ABS
6	Safety and Regulatory Compliance	
6.1	Operational Vibration:	10–150 Hz, 0.5G, 3 axes, 1 min/oct, 1 cycle/axis
6.2	Endurance Vibration:	10–150 Hz, 2G, 3 axes, 1 min/oct, 20 cycles/axis
6.3	Drop Resistance:	Withstands 3-meter drops onto concrete
6.4	IP Rating:	IP67
6.5	Certifications:	CE, ROHS, FCC, etc.

Test Conditions: Ambient temperature = 25°C; Ambient light = 150 lux incandescent lamp; using company-standard testing procedures.