

GY-20U

Handheld Wireless 2D Industrial Scanner



Description

GY-20U 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-20U has an IP67 industrial grade, and it can maintain good working condition for a long time in a humid or dusty working environment.

GY-20U 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-20U 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.

Features

- 1.Supports high-performance 1D/2D barcode scanning, and also performs well in reading low-contrast, stained, distorted and other printed barcodes.
- 2.GY-20U has an IP67 industrial protection grade and is suitable for various complex industrial environments.
- 3.GY-20U uses a megapixel optical lens, supports fast scanning of slender barcodes at close range, and can also accurately scan tiny barcodes.
- 4.The USB data cable uses a detachable cable connection for more reliable connection.

GY-20U Specification

1	Scanning Performance	
1.1	Resolution:	1280 (H) * 1080 (V)
1.2	Illumination:	White LED (IEC 62471 compliant)
1.3	Aiming:	Cross-hair laser (red)
1.4	Frame Rate:	Up to 120 fps
1.5	Motion Tolerance:	6m/s [19.7 ft/ s]
1.6	Field of View (FOV):	43° (H) × 36° (V)
1.7	Scanning Angle:	<ul style="list-style-type: none"> Tilt: 360° Horizontal: ±60° Vertical: ±60°
1.8	Supported Symbologies:	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, Hanxin Code
1.9	Reading Range (Typical):	QR (5mil) 40mm~100mm Code39(3mil) 35mm~140mm Code39(5mil) 35mm~190mm EAN(13mil) 50mm~330mm
1.2.0	Minimum Resolution:	1D: ≥ 3 mil 2D: ≥ 5 mil
1.2.1	Print Contrast:	≥ 20%(UPC/EAN 100% , PCS 90%)
2	Wireless Parameters	
2.1	Transmission:	2.4G wireless + Bluetooth (v2.0/3.0/4.0/4.2)
2.2	Communication Range:	2.4G: 300m (with AP for extended range)
	Bluetooth:	20m (line-of-sight)
2.3	Battery Capacity	3200mAh (2 batteries included)
2.4	Charging Time	5 hours
2.5	Standby Mode:	Activates after 3 minutes
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:	Typical: 300mA ±5% Max: 500mA ±5%

4	Operational Features	
4.1	Interfaces:	USB, RS232 serial port
4.2	Transmission Modes:	USB HID / USB COM / RS232 / Bluetooth (HID/SPP/BLE)
4.3	Alert Modes:	Buzzer, vibration
4.4	Scanning Modes:	Manual trigger, continuous scan, auto-sensing, command trigger
5	Physical Specifications	
5.1	Dimensions (L×W×H):	198*74*105
5.2	Weight:	<ul style="list-style-type: none">• Scanner: ~346g• Base: ~492g• Battery: ~58g
5.3	Cable:	2m length, 5mm diameter
5.4	Color:	<ul style="list-style-type: none">• Soft rubber: Black• Hard casing: Gray
5.5	Materials:	<ul style="list-style-type: none">• Soft rubber: TPU• Hard casing: ABS
6	Safety & Compliance	
6.1	Operating Vibration:	10–150Hz, 0.5G, 3 axes, 1min/oct, 1 cycle/axis
6.2	Endurance Vibration:	10–150Hz, 2G, 3 axes, 1min/oct, 20 cycles/axis
6.3	Drop Test:	Withstands 3m drops onto concrete
6.4	IP Rating:	IP67
6.5	Certifications:	CE, RoHS, FCC, etc.