

# BW20

## Handheld wireless 2D industrial scanner



### Product Description

BW20 is a handheld wireless 2D barcode scanner which is mainly used for industrial environments. It is equipped with a 1280\*1080 megapixel C-MOS sensor with excellent scanning recognition.

BW20 is IP67 industrial grade, and it can maintain good working condition for a long time in a humid or dusty working environment.

BW20 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 BW20 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 scanner.

### Product Features

1. Supports high-performance 1D/2D barcode scanning, and also performs well in reading scenarios of printed barcodes with low contrast, stains, distortions, etc.

2. BW20 engine is red light (mid-focus) and white light (far-focus) for automatic recognition and switching, excellent bar code compatibility and error correction capabilities, large depth of field parameters, and performance with two different focal lengths.

3. BW20 white light is suitable for long-distance code scanning, (DM 200Mil) the longest distance can reach to 10 meters.

4. Full-range depth scanning capability, dual lenses to read various 1D and 2D codes, flexible application in different scenarios, dual lenses, double efficiency.

5. BW20 is IP67 and suitable for various complex industrial environments.

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

<b>1 Optical performance</b>		
1.1	Resolution:	2pcs 1280 pixels (H)x 1080 pixels (V)
1.2	Light:	Red light (mid focus), white light (far focus)
1.3	Focus:	Laser dot focus
1.4	Scanning distance:	100cm ~ 1000 cm @DM -200 mil 100 %,PCS 90%
1.5	View:	Medium range: Horizontal 28.0° (V), Vertical 22.0° (H) Long range: Horizontal 11.5° (V), Vertical 9.0° (H)
1.6	Scanning angle:	Tilt: 360°, left and right: ±60°, up and down: ±60°
1.7	Code support:	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, Dotcode
1.8	Read range (typical):	Code 39 (5mil)5cm~32cm EAN/UPC (13mil) 5.5cm~190cm EAN/UPC (15.6mil) 7cm~210cm Code 128 (40mil) 38cm~400cm QR (20mil) 5.5cm~140cm DM (200mil) 100cm~1000cm Barcode reading performance may be affected by barcode quality or environmental factors.
1.9	Minimum resolution	0.127(5mil)@Code 39, PCS=90%
1.2.0	Printing contrast:	More than 20% (UPC/EAN 100%, PCS 90%)
<b>2 Wireless data</b>		
2.1	Transfer way:	Wireless 2.4G+bluetooth (Supported Protocols 2.0、3.0、4.0、4.2)
2.2	2.4G communication distance:	300m Visual Distance (with AP Long Distance Transmission)
	Bluetooth communication distance:	20m Visual Distance
2.3	Battery capacity:	3000mAh (Two batteries as standard)
2.4	Charging time:	About 5 hours
2.5	Standby time:	3 minutes to standby
2.6	Charging Input:	5V 1~2A
<b>3 Electrical characteristics</b>		
3.1	Working voltage	5V±5%
3.2	Standby currency:	0.6μA
3.3	Working currency:	260 mA ±5% (typical) , 380 mA ±5% (max)
<b>4 Working characteristic</b>		
4.1	Interface support:	USB
4.2	Transmission mode:	USB HID (USB COM)
4.3	Prompt mode:	Buzzer, vibration
4.4	Scanning mode:	Key scan, continuous scan, self-sensing scan, command trigger (etc.)
<b>5 Physical parameters</b>		
5.1	Size length*width*height (mm):	198*74*105
5.2	Weight:	scanner: ≈346g base: ≈492g battery: ≈58g
5.3	Cable:	Cable length: 1.2m、cable width: 5mm
5.4	Color	Soft glue: black Hard glue: gray
5.5	Shell material	Soft plastic: TPU Hard plastic: ABS
<b>6 Safety regulations</b>		
6.1	Working vibration:	10~ 150HZ, 0.5G, 3 Axial, 1min/oct, 1 time/axial
6.2	Durable vibration:	10~ 150HZ, 2G , 3 Axial, 1min/oct, 20 times/axial
6.3	drop:	Withstands a 6-meter drop onto concrete
6.4	IP rate:	IP67
6.5	Certificate:	CE ROHS FCC and so on