

# 2D Hand-held Barcode wireless Scanner

## User Guide

### **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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# Chapter I Product Information

## Introduction



【Fig.1. Physical drawing of CQH20BG】

CQH20BG scanner is a universal commercial two-dimensional barcode wireless scanner, which adopts advanced image recognition technology and intelligent image recognition system. It can easily read two-dimensional bar codes on paper, commodities, screens and other media, and has powerful reading performance. CQH20BG scanner products are ergonomically designed to make it more comfortable and convenient to use.

## Main feature

- ✧ Ergonomic design, comfortable to use
- ✧ Easily read all mainstream QR codes in the market.
- ✧ With high performance processor, it can decode quickly.
- ✧ Easily read barcodes of various media such as paper, plastic cards and LCD screens.
- ✧ Adopt 2.4GHz wireless transmission technology, and support reliable transmission of wireless distance up to 200m.
- ✧ Wired mode
- ✧ Inventory mode
- ✧ Large-capacity storage, supporting the storage of more than 100,000 commodity data.

## Area of application

Manufacturing, warehousing and logistics, medical and health care, chain retail, mobile payment, express supermarket, inventory management, food traceability, asset inventory, etc.

## Chapter II Performance Parameters

### Reading performance

Light source	White LED
Processor	COMS
Resolution	300000
Resolution	$\geq 3\text{mil}/0.1\text{mm}$ (PCS90%,CODE 39)
Reading depth of field	50mm~310mm
Reading mode	Manual reading and constant light reading
Reading angle	<i>Test Conditions: CODE39, 10mil/0.25mm,PCS90%</i> Pitch: $\pm 60^\circ$ Roll: $\pm 30^\circ$ Skew: $\pm 60^\circ$
Print contrast	$\geq 25\%$
Ambient light	Dark environment, indoor natural light.
Code reading system	UPC-A, UPC-E, EAN-8, EAN-13, ISSN, ISBN, Code 128, GS1-128, ISBT 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Standard 2 of 5 (IATA), Codabar (NW-7), Plessey, MSI Plessey, RSS, China Post, etc.

## Mechanical/electrification performance

Weight	About 120g (excluding wires)
Appearance size	150mm L * 70mm W * 95mm H
Communication interface	USB-KBW, Wireless 2.4G
Wire length	1.5 meters
Material	ABS
Colour	Black
Operating voltage	DC 5V
Electric current	60mA (Work), 30mA (standby)

## Wireless performance

Wireless standard	2.4GHz
Transmission distance	2.4G 100 (outdoor open environment)
Storage capacity	About 100,000 commodity codes
Battery capacity	2000mAh
Battery charging time	About 6-8 hours
Continuous working time	10-12hours
Standby duration	≥90 days (after dormancy)

## Working environment

Working temperature	-20°C to 50°C
Storage temperature	-40°C to 70°C
Working humidity	5% to 95% (No condensation)
Protection grades	IP42

Drop test	1.5 meters, 4 times
High and low temperature test	30 minutes for high Temp., 30 minutes for low Temp.,
High temperature	60°C
Low temperature test	-20°C
Transportation vibration test	10H@125RPM

## Accessories list

Wireless	2.4G receiver
Cable	USB charging data cable
Power adapter (optional)	Output: DC 5V, 1A; Input: AC 100~240V, 50~60Hz