

# Quick Reference Guide

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**HS3660 Series**

**Wired Handheld Industrial  
DPM Barcode Reader**

Ver. 20230728

## Product Specifications



### Physical Performance

Dimension	191.8mm x 130.2 mm x 76.9 mm
Weight	352 g

### Electrical Characteristics

Operating Voltage	4.75-5.25 VDC
Standby Current	150mA
Operating Current	310mA
Communication Interface	RS232、USB Keyboard、USB Simulated Serial port

### Environment

Operating Temperature	0° C ~ +45° C
Storage Temperature	-10°C~+50°C
Relative Humidity	5%~85% Non-condensing
IP Rating	IP67
Ambient Light Immunity	Sunlight: 10000 Lux, Incandescent Lamp: 6000 Lux, Fluorescent Lamp: 2000 Lux
Shock Resistance	Capable of withstanding multiple impacts of falling from a height of 1.2 meters onto the cement floor (allowable deflection of 5°)

### Reading Performance

Image Resolution	1280X1024
Illumination	White point illumination/ red area illumination/ blue area illumination
Aiming Mode	Laser aiming
Viewing Angle	44° (Horizontal), 34° (Vertical)
Reading Direction	Angle of elevation $\pm 60^\circ$ , Oblique angle $\pm 55^\circ$

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Readable Barcode Types	1D, 2D and stacked codes that comply with national and international standards
Maximum Reading Accuracy	1D code: 3mil    2D code: 4mil

### Reading Distance

Unit:mm

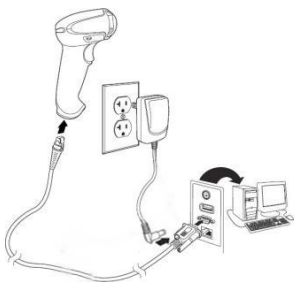
Barcode specifications	Nearest	Farthest
3.34mil Code 128	5	73
5mil Code 128	5	82
10mil Code 128	5	121
15mil Code 128	5	150
5mil    DataMatrix	5	51
6.67mil    DataMatrix	5	72
10mil    DataMatrix	5	93
15mil    DataMatrix	5	111

## Product Connection Diagram

### USB connection



### RS-232 connection

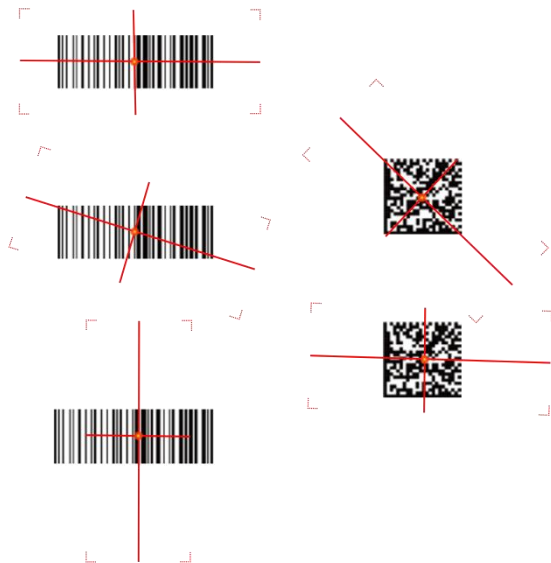


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## Note Of Barcode Reading

The cross red aiming laser emitted by the reader should be located in the center of the barcode or pass through the barcode. The following illustrations are several correct aiming methods.



The closer the reader is to the barcode, the smaller the aiming range of the laser; The farther the reader is away from the barcode, the larger the aiming range of the laser. If the barcode is small, the

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reader should be placed close to the barcode; If the barcode is large, the reader should step away from the barcode to make it easier to correctly read it.

If the barcode has a high reflectivity (such as coated), you may need to tilt the reader at an angle to scan the barcode.

## Interface



USB keyboard port



USB simulated Serial port



RS232 interface

(Rate 9600, 8 data bits, 1 stop bit)

## Open RS232 Serial communication configuration

When the device is switched to the RS232 interface, you need to scan below setting code to set the Serial communication baud rate and check bit.



open RS232 Serial communication



## Serial communication baud rate setting



300



600



1200



2400



4800



9600



19200



38400



57600



115200

## Communication check bit setting



7 data bits, 1 stop character,  
even parity bit



7 data bits, 1 stop character, no  
parity check



7 data bits, 1 stop  
character, odd parity bit



7 data bits, 2 stop characters ,  
even parity bit



7 data bits, 2 stop characters, No  
Parity



7 data bits, 2 stop  
characters, odd parity bit



8 data bits, 1 stop character,  
even parity bit



8 data bits, 1 stop character, odd parity bit



8 data bits, 1 stop character,  
No Parity

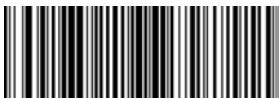
## Suffix

### Add carriage return suffix



add a carriage return suffix for  
all code systems

### Add carriage return and line feed suffix



add carriage return and line feed  
suffix for all code systems

### Remove suffix



clear all code suffixes

## Mobile phone mode reading

Supports adaptive reading of paper, mobile screen and computer screen. In some special situations, the device can be set to mobile phone mode to make it easier to read the screen. In this mode, the performance of reading paper barcodes deteriorates when the external light is poor.



Mobile phone screen - handheld reading mode

## Sensing mode

In sensing mode, turn on low lighting to detect if a barcode has passed by. When a barcode is detected, turn on the lighting to read the barcode.



sensing mode

## Manual trigger mode

If the sensing mode needs to be turned off, the device can be set to manual trigger mode, in which the button needs to be triggered to scan the barcode.



manual trigger mode

## Factory reset

This barcode setting is only allowed to be scanned when the reader is unable to function properly and the barcode setting for standard products is still invalid.



factory reset

## Code system



enable all coding systems



turn off all coding systems



codabar code on



codabar code off



code 39 on



code 39 off





interleaved 2 of 5 on



interleaved 2 of 5 off



code 128 on



code 128 off



GS1-128 open



GS1-128 off



UPC-A open



UPC-A off



UPC-E0 open



UPC-E0 off



UPC-E1 open



\*UPC-E1 off



EAN/JAN-13 open



EAN/JAN-13 off



PDF417 on



PDF417 off



QR Code on



QR Code off



Data Matrix open



Data Matrix off



Aztec Code on



Aztec Code off

## Sample barcode



1 2 3 A B C  
Code39



A B C D 1 2 3 4  
Code 128



0 1 2 3 4 5 6 7 8 9 0 5  
UPCA



9 7 8 3 4 5 6 7 8 9 0 1 9  
EAN-13



A 1 2 3 4 5 6 7 8 B

Codabar



5 5 6 7 8 9 0 1 2 3

Interleaved 2/5



PDF 417



Postnet



Micro PDF



DataMatrix



Aztec



QR Code



## **Routine Maintenance**

### 1. Clean the barcode reader frequently

If the reading window of the barcode reader is not clean, the performance of the reader will decrease. When the window is visibly dirty or the barcode reader reading efficiency is not very good, you can use a soft cloth or a mirror wiping cloth dipped in a little water to wipe the window.

### 2. Regularly check the connection end and cable of the barcode reader

Damage to the connecting end or cable of the barcode reader can affect its normal operation. When damage is found, please replace it promptly.

## **After-sale service**

When users encounter problems difficult to solve, they can seek solutions through our service hotline.

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## Legal Notice

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## Power Supply

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This product can only be used with the original infoscan DC power adapter, or DC power supplies and other power devices verified and authorized by Bilin Intelligence's personnel.

## Instructions For Using LED

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- Please follow the steps specified in the manual for control and adjustment, otherwise, it may cause dangerous LED radiation.
- Please be sure to follow the below precautions, otherwise it may cause harm to human body (eyes or skin).
- Do not directly gaze at LED light and specular reflection light.
- Do not disassemble, repair or modify this product on your own.
- Do not view directly with optical instruments. Viewing the LED output with certain optical instruments (for example, eye loupes, magnifiers and microscopes) within a distance of 100mm may pose an eye hazard.

## Laser Safety

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- This product may include an aiming laser source for positioning the barcode reader.
- Do not disassemble, repair or modify this product.
- The product meets the relevant requirements of IEC 60825-1.
- Please control and adjust according to the steps specified in the manual, otherwise, it may cause harm to the human body (eyes or skin).

## Product Safety Precautions

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- Non explosion-proof models should not be used in explosion-proof areas.
- Be sure to turn DC power off before attempting to connect or disconnect the control cable.
- Please strictly follow the instructions when using I/O terminals. If external equipment is not connected according to the usage specifications or if the connection exceeds the specified load, this may cause damage to the product itself and prevent it from enjoying warranty and repair services.
- Insert the connector straight so that it is not tilted and then tighten it securely. Under-tightening can lead to a loose connector due to vibrations, resulting in poor contact.
- Please standardize the use of insulation sheets and screws to avoid on-site static electricity and other abnormal conditions affecting the barcode reader.
- Do not disassemble or modify this product, as this may cause damage to the product and unable to receive warranty service.
- Keep equipment and cables as far away from high-voltage lines and power cables as possible. Otherwise, it may lead to product failure or cable failure.
- Do not allow water, oil, corrosive objects or other foreign objects to stick to the product, as this may cause reading errors or damage to the product. Please use a soft dry cloth or a soft cloth soaked with alcohol to wipe any substances on the product.
- Before using this product, please ensure that it operates

normally in terms of functionality and performance.