

Quick Reference Guide

HS3150 Series

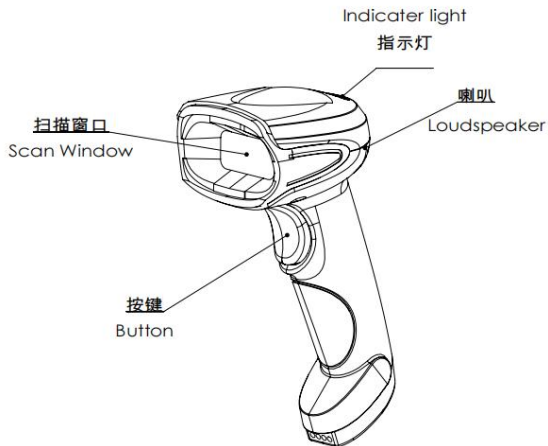
**Wired Handheld Industrial
DPM Barcode Reader**

Ver: 20230808

Packing List

Content	Unit	QTY	Remark
HS3150 Host	pc	1	The reader host
Guide book	pc	1	Connection method and setting codes
Cable	pc	1	USB or RS232 communication cable
5VDC power	pc	1	Supplied only for RS232 communication mode

Overall Look

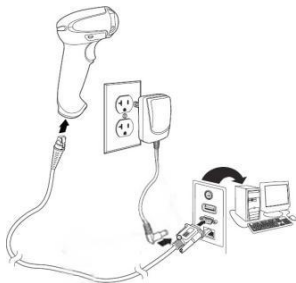


Product Connection Graph

USB connection



Serial port (RS-232) connection



Technical Parameter Specifications

Parameter	Parameter Description
Sensor type	CMOS sensor
Resolution	1280x1024
Frame rate	Up to 60 fps
Viewing angle	44° (horizontal) 34° (vertical)
Roll/ Pitch/ Yaw	360°(roll)、65°(pitch)、55°(yaw)
Reading direction	Roll/ Pitch/ Yaw±60° Oblique angle±55°
Illumination	White LED (available in red and blue)
Aiming mode	Red LED
Communication interface	RS232 / USB keyboard / USB COM
Operating voltage	5V±5% VDC
Standby current	150mA
Operating current	370mA
Consumption	1.85W
Shell material	PC
Weight	146g
Dimension	163mmx69.5mmx106mm
Operating temperature	0°C ~ +45°C

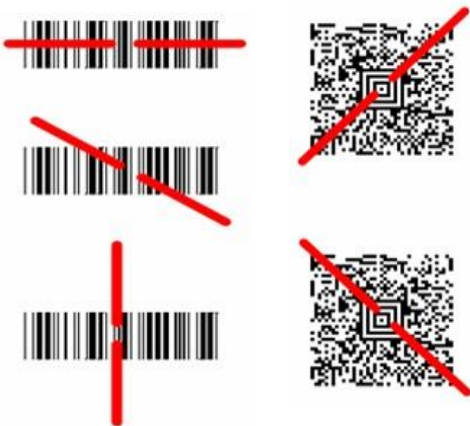
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Storage temperature	-10°C ~ +50°C
Relative humidity	5%~95% non-condensing
IP rating	IP54
Product certification	CE FCC RoHS
Ambient light immunity	Sunlight: 10000 Lux Incandescent lamp: 6000 Lux
Shock resistance	Capable of withstanding multiple impacts of falling from a height of 1.2 meters onto the cement floor (allowable deflection of 5°)
Readable bar code types	1D, 2D and stacked codes that comply with national and international standards
Maximum reading accuracy	1D code: 3mil 2D code: 5mil

Note: Performance may be affected by bar code quality and environmental conditions.

Note of Barcode Reading

The red aiming laser emitted by the reader should be located in the center of the barcode or pass through the bar code. 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 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.

Settings

Switch to USB communication mode

When the device switches from RS232 interface to USB interface, it needs to replace with the USB cable first then scan the setting code before setting the USB communication mode. If the default is USB communication mode already, the USB communication transmission mode can be set directly.



USB communication mode

USB communication transmission mode



USB keyboard



USB simulated serial port

Switch to RS232 communication mode

When the device is switched from USB interface to RS232 interface, it is necessary to replace with the RS232 cable first and then scan the setting code before setting the Serial communication Baud and check bit. If it has already defaulted to RS232 communication mode, there is no need to scan this setting barcode.



RS232 Serial communication mode

Serial port Baud setting



1200



2400



4800



9600



19200



38400



57600



115200

Serial communication check bit setting



7 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 check

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 codes suffixes

Screen barcode reading mode

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 you need to turn off the LED screen reading mode or sensing mode, the device can be set to manual trigger mode (which is the

default factory mode), in which the button needs to be triggered to scan the barcode.



manual trigger

Code system settings

All coding systems



all coding systems on



all coding systems off

Codabar



on



off

Code 39



on



off

Interleaved 2 of 5

<Default for all Interleaved 2 of 5 settings>



on



off

Code 93

<Default for all Code 93 settings>



on



off

Straight 2 of 5 Industrial (three-bar start/stop)

<Default for all traight 2 of 5 Industrial settings>



on



off

Straight 2 of 5 IATA (two-bar start/stop)

<Default for all Straight 2 of 5 IATA settings>



on



off

Code 128

<Default for all Code 128 settings>



on



off

GS1-128

<Default for all GS1-128 settings>



on



off

UPC-A

<Default for all UPC-A settings>



on



off

Note: When scanning "off" barcode of UPC-A setting codes, UPC-A barcode is transmitted as EAN-13.

UPC-E0

<Default for all UPC-E settings>



on



off

EAN/JAN-13

<Default for all EAN/JAN settings>



on



off

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Note: If you want to convert UPC-A barcodes to EAN-13 type, please scan "off" code of UPC-A setting barcode.

ISBN Translate

When set to ISBN symbol transmission, the EAN-13 Bookland symbol will be converted to the equivalent ISBN symbol format. Default=Off



on



off

PDF417

<Default for all PDF417 settings>



on



off

QR code

<Default for all QR Code settings>



on



off

Data Matrix

<Default for all Data Matrix settings>



on



off

Aztec code

<Default for all Aztec Code settings>



on



off

Factory reset

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



Factory Reset

Sample barcode



1 2 3 A B C

Code 39



A B C D 1 2 3 4

Code 128



0 12345 67890 5

UPC A



9 783456 789019

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



Data Matrix



Micro PDF



QR Code



Aztec

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.

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Power Supply

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

- 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, magnifier or microscope) within a distance of 100mm may pose an eye hazard.

Safety Precautions For Use

- Be sure to turn DC power off before attempting to connect or disconnect the control cable.
- 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.
- Do not disassemble or modify this product, as this may cause damage to the product and unable to get 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.