

# BC-CS90HD

## Industrial QR Code Scanner

BC-CS90HD is a fixed two-dimensional scanning module suitable for general industrial environment use launched by BLACK COPPER company.

It is equipped with a 1280\*800 megapixel C-MOS sensor with excellent scanning recognition. BC-CS90HD has an industrial grade of IP65, and it can maintain good working conditions for a long time even in a humid or dusty working environment.



### Features

#### MEGAPIXEL IMAGE SENSOR

Using 1280\*800 high-resolution image sensor, the same distance can read barcodes with higher precision

#### SIMPLE I/O INTERFACE

Through I/O cable external trigger scanning and code reading indication output, improve work efficiency and achieve more accurate and effective code reading

#### HIGH SPECIFICATION INDUSTRIAL PROTECTION

The body is made of high-strength metal material, which is sturdy and reliable; IP65 protection grade, blocking dust and resisting the impact of low-pressure fresh water splash

#### LARGE VIEWING ANGLE, HIGH FRAME RATE

Adopt optical lens with horizontal 46°, vertical 29° viewing angle, 60FPS frame rate, meet low-speed motion, point-to-point code reading



### APPLICATION SCENARIOS



Direct Store  
Delivery



Ticket Service



Healthcare



Warehouse



Retail



Manufacturing



Parcel Express

<b>Resolution</b>	1280 * 800 pixel		
<b>Field of View</b>	Horizontal 46° (H), Vertical 29° (V)		
<b>Illumination</b>	High brightness red light/white light		
<b>Aiming</b>	Green LED		
<b>Scan Mode</b>	<ul style="list-style-type: none"> <li>• Automatic Induction</li> <li>• External Pulse Trigger Mode</li> <li>• Continuous Scan Mode</li> <li>• Serial Port Command Mode</li> </ul>		
<b>Decode Capacity</b>	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 , RSS-14 , RSS-14 Expanded , RSS-14 Limited ,Composite Code-A , Composite Code-B , Composite Code-C	
	2D	PDF 417 , Micro PDF 417 , Data Matrix , QR , Micro QR , Aztec , MaxiCode	
<b>Typical Reading</b>	Model	BC-CS90HD	BC-CS120HD
		Code 39 (5mil) : 60 mm ~ 250 mm	Code 39 (3 mil) : 50 mm ~ 90 mm
	Depth of View	EAN-13 (13mil) : 50 mm ~400 mm	Data Matrix (10 mil) : 40 mm ~ 150 mm
		QR (10 mil) : 35 mm ~ 130 mm	QR (7 mil) : 35 mm ~ 120 mm
	Accuracy	1D : ≥4 mil ; 2D : ≥9 mil	1D : ≥3 mil ; 2D : ≥7 mil
<b>Print Contrast</b>	≥20% (UPC/EAN 100% , PCS 90%)		
<b>Dimension (mm)</b>	36 (W) ×43 (D) ×24 (H)		
<b>Material</b>	Aluminium alloy		
<b>IP Rating</b>	IP65		
<b>User Indicator</b>	Buzzer, Indicator light		
<b>Transmission</b>	RS232 , USB (HID ; CDC) ,(TCP/UDP/Modbus)		
<b>Power</b>	5-36 VDC		
<b>External Input</b>	1 optocoupler isolated input (NPN / PNP / relay)		
<b>External Output</b>	2-way optocoupler isolated output (Good; NG)		
<b>Current@5 VDC</b>	Operating Current 300 mA ±5% (Typical) , 450 mA ±5% (Max) Standby Current 100 mA ±5%		
<b>Storage Temp.</b>	-40°C~+70°C		
<b>Operating Temp.</b>	-20°C~+50°C		
<b>ESD protection</b>	±20 kV (air discharge) , ±8 kV (direct discharge)		
<b>Certifications</b>	CE EN55022 , FCC Part 15 Class B , CE EMC Class B		