

## The BC50-series code reader



### Description:

- Support for 1D and 2D code detection
- Small appearance, suitable for small space
- Can be set with keys and software, easy to operate
- LED lighting light source, can be controlled up and down separately
- Support for RS232, Profinet, TCP / IP communication
- With a conventional light source and a polarized light model
- With high cost performance

### Product model:

Model	Resolution	Focal length (mm)	Light source	Support code system
BC50-K80R-MRS	1280*800	80	Red	Support for 1D / 2D codes 1D-Code128 (GS1-128), Code 93, Code 39, EAN/U-PC, Interleaved 2 of 5, CODABAR 2D-Data Matrix (ECC200), QR
BC50-K130R-MRS	1280*800	130	Red	
BC50-K200R-MRS	1280*800	200	Red	
BC50-K80W-MRS	1280*800	80	White	
BC50-K130W-MRS	1280*800	130	White	
BC50-K200W-MRS	1280*800	200	White	
BC50-K80B-MRS	1280*800	80	Blue	
BC50-K130B-MRS	1280*800	130	Blue	
BC50-K200B-MRS	1280*800	200	Blue	
BC50-K80RP-MRS	1280*800	80	Red, polarization	
BC50-K130RP-MRS	1280*800	130	Red, polarization	
BC50-K200RP-MRS	1280*800	200	Red, polarization	

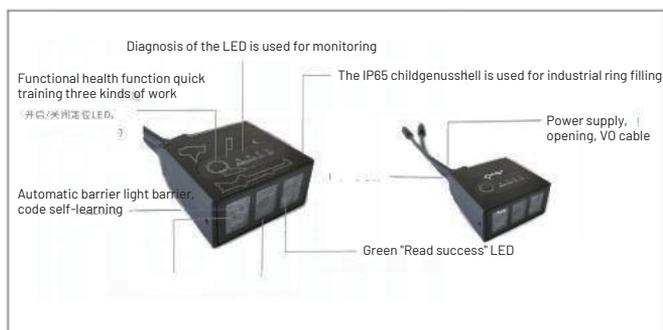
# The BC50-series code reader

## BC50-K130 Read Distance \*(130mm at focal plane FOV 95x60mm)

Code type	Exposure time	Gain	Code resolution	Reading distance	The proximal field of view (Horizontal , Vertical)	Far end field of view (Horizontal , Vertical)
Code39	500 us	4	6 mil	90-155mm	72x46mm	119x77mm
			8 mil	70-165mm	56x36mm	127x82mm
			12 mil	70-220 mm	56x36mm	168x108mm
			20 mil	70-260 mm	56x36mm	199x128mm
Code128	500 us	4	6 mil	95-155mm	77 x49mm	119x77mm
			8 mil	75-175mm	72x46mm	135x87mm
			12 mil	70-210mm	66x42mm	160x103mm
			20 mil	85-280mm	68x44mm	212x136mm
Interleaved 2 of 5	500 us	4	8 mil	80-170mm	66x42mm	131x85mm
			12 mil	70-220mm	56x36mm	168x108mm
			20 mil	70-310mm	56x36mm	235x150mm
Data Matrix (ECC200)	500 us	4	10 mil	90-165mm	72x46mm	127x82mm
			15 mil	90-215mm	72x46mm	164x105mm
			20 mil	90-235mm	72x46mm	180x114mm

\* The above table is the test results of the Grade A test card on the reader around the X axis. The resolution, contrast level and other environmental factors will affect the test results.

## BC50 software



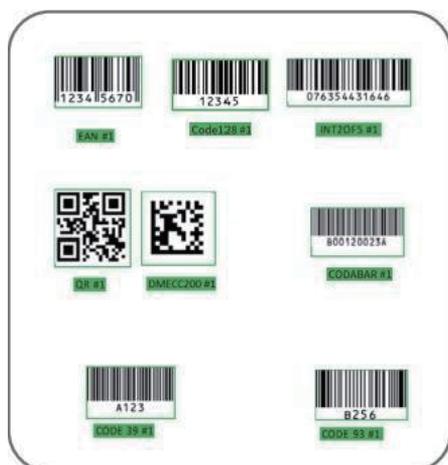
- Simple interface and easy to operate
- With the functions of bar code automatic teaching, automatic image setting and code self-learning
- With five image setting functions, it can set different exposure times and gains respectively to meet the needs of complex decoding applications
- With a variety of image preprocessing functions, it is possible to meet the requirements of complex applications.
- Save ALL / OK / NG images selectively
- The software has its own debugging assistant to observe the decoding results
- Support both Chinese and English



- ### Advanced configuration
- Intuitive configuration options
  - Rich, comprehensive and easy to use
  - Support for internal trigger, external I / O trigger, external network trigger, and gating trigger
  - External I / O trigger signal supports optional "front" and "rear edge" to meet the requirements of trigger timing
  - Support Serial port and Ethernet string trigger and Profinet bit trigger
  - Software supports code reader as server-side or client

# The BC50-series code reader

## Support code system



1D code: Code 128, Code 93, Code 39, EAN / UPC, Interleaved 2 of 5, CODABAR  
 2D code: Data Matrix(ECC200), QR

## Performance parameter

Power supply	12-24 V dc
Communication protocol	RS232 serial port, Ethernet TCP / IP, Profinet
Communication speed	RS232:115200 bit/s Ethernet: 10 / 100 Mbit / s
Input	2 PNP or NPN, V: 12V-24V, I: 5 mA
Output	2 PNP or NPN, V: 5V-24V, I: 140 mA (average current).
Image	1280×800, CMOS
Image speed	60 Frames
Dimensions	50mm x48mm x25mm
External material	Aluminium
Working environment	0 ~ 50 C
	90% maximum relative humidity
IP rating	IP65
Attestation	CE

## Fittings

Model	Explain
CB-M12-2000E-17GF	Power supply & IO cable, M12,17 core, 2 m fly line
CB-M12-5000E-17GF	Power supply & IO cable, M12,17 core, 5 m fly line
BC-ETH-M02	Ethernet cable, M12-4 pin D code to RJ45,2 m
BC-ETH-M05	Ethernet cable, M12-4 pin D code to RJ45,5 m
BT-BC	Right-angle mounting bracket