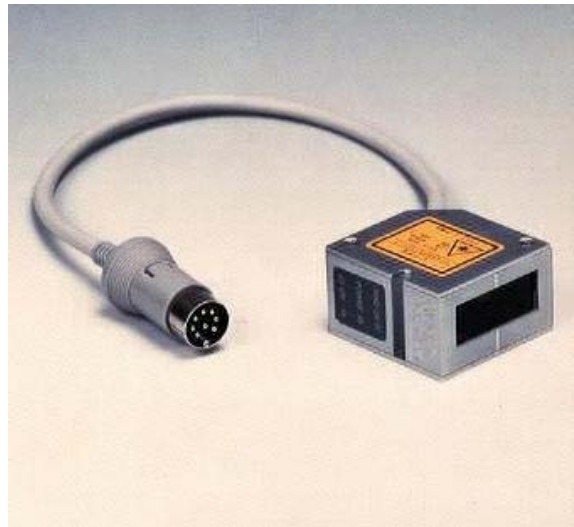


Empowered by Innovation

NEC

BCR2660/70/80 SERIES

Miniature Fixed Laser Bar Code Reader

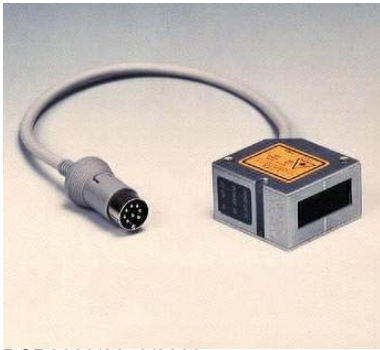


Miniature laser bar code reader with built-in decoder

NEC Infrontia's BCR2660/70/80 series laser bar code readers are compact in size, smaller than half a business card, and lightweight, making them ideal for use in systems with limited space. The readers have a sealed dust-free enclosure and are certified for use in a Class 1 clean room.

The BCR2660/70/80 series is well suited for use in semi-conductor manufacturing, analytical equipment, and robotic applications.

DENSEIUSA



BCR2660/2670/2680



BCC2500



BCA1100

Clean room compatible

The BCR2660 has a dust-free enclosure, allowing its use in a clean room of Class 1.

Miniaturized for space limited installations

The front-looking reader measures only 42mm long by 40mm wide by 24mm high (1.7" long by 1.6" wide by 1.0" high) and weighs just 100g (3.5 oz). The miniature size and choice of optical throw are suitable for applications with severe space restrictions. The available optical throws are as follows: 90mm for the 2660 model, 180mm for the 2670 model, and 300mm for the 2680 model.

Tolerant to poor bar code print quality

The 12-raster scan system of the BCR2660 is able to read poor quality bar codes (e.g. blurs, voids, and spots).

Available for high-density bar codes

The minimum resolution for the BCR2660 is 6 mils (0.15mm). This allows for the use of high-density bar code symbols.

Network

An optional network controller can be used to connect up to 4 bar code readers on an RS-485 network. The data is then transferred to the host computer via an RS-232 interface. The RS-485 bar code readers can operate up to a distance of 1km (0.6mi) maximum. With the combined use of the BCR2660 readers and the controller the user can easily build a customized network.

► BCR2660 / 2670 / 2680 Series

Model	BCR2662-□TA	BCR2666-□TA	BCR2672- □ TA	BCR2676- □ TA	BCR2682- □ TA	BCR2686- □ TA
Readable bar codes	UPC/EAN, Code 39, Code 93, Code 128, Codabar, Interleaved 2 of 5					
Number of characters	1 to 32 characters				1 to 40 characters	
Minimum resolution	0.15mm (6 mil)		0.25mm (10 mil)		0.3mm (12 mil)	
PCS value	0.7 or more (white reflection 85% or more)					
Optical throw / Depth of field	90mm±50/-40 (12mil X dimension)		180mm±50(12mil X dimension)		300mm±50(12mil X dimension)	
Access time	20 ms					
Reading start method	Inzone signal from an external device (no-voltage contact of open collector)					
Operating temperature	0 to 40°C (32 to 104°F)					
Operating humidity	20 to 90% (non-condensing)					
Storage temperature	-20 to 70°C (-4 to 158°F)					
Storage humidity	20 to 90% (non-condensing)					
Max. external illumination	6000 lux or less					
Interface	RS-232	RS-485	RS-232	RS-485	RS-232	RS-485
Scan beam pattern	Raster scan ¹ or Single scan					
Scan speed	100 scans/sec					
Direction of beam irradiation	Side or front view					
Safety standard for laser	CDRH Class 2 (output 1.0 mW or less)					
Baud rate	1200, 2400, 4800, 9600 baud (BCR26X2-□TA)					
Clean room	Class 1 (0.1µm)					
Power source	+5VDC±5%, 140mA				+5VDC±5%, 160mA	
Dimensions	Front view: L 42mm × W 40mm × H 24mm (1.7"×1.6"×1.0") Side view: L 61.5mm × W 40mm × H 25mm (2.5"×1.6"×1.0")					
Weight	100g (3.5 oz)					

¹12 beams in a scan width of 6mm (0.12") and at a distance of 100mm (3.9") from the reader

► Recommended Power Supplies

Model	BCA1100	BCA1080
Input voltage	100V/240V	100V
Input frequency	50/60 Hz	
Dielectric strength	1.5 kVA, 1min.	0.5kVA, 1min
Insulation resistance	50MΩ or more	
Operating temperature	0 to 40°C (32 to 104°F)	
Operating humidity	20 to 90% (non-condensing)	
Storage temperature	-20 to 70°C (-4 to 158°F)	
Storage humidity	20 to 90% (non-condensing)	
Dimensions	L 180mm x W 72mm x H 42mm (7.1" x 2.8" x 1.6")	L 110mm x W 94mm x H 32mm (4.3" x 3.7" x 1.2")
Weight	500g (18 oz)	400g(14 oz)

► Controller (Optional)

Model		BCC2500
Host interface	Synchronous system	Asynchronous (RS-232)
	Transmission method	Half-duplex
	Transmission speed	1200 to 38400 baud (adjustable)
Reader interface		Max. number of readers to be connected : 4 units Max. transmission distance : 1km (0.6 mi)
Input voltage		85V – 265V (50/60 Hz)
Input current		0.45A maximum
Display		12 characters x 4 lines (typical), Asian characters supported
Number of keys		19 keys
Operating temperature		0 to 40°C (32 to 104°F)
Operating humidity		20 to 90% (non-condensing)
Storage temperature		-20 to 70°C (-4 to 158°F)
Storage humidity		20 to 90% (non-condensing)
Dimensions		L 180mm x W 130mm x H 50mm (7.1" × 5.1" × 2.0")
Weight		1.2kg (2.6 lb)



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