Code® CR2100
Wireless Barcode Scanner

Compact and affordable for a reliable wireless workflow

The fourth-generation CR2100 delivers scanning excellence with enhanced performance, reading even the most damaged barcodes to keep workflows moving. Bluetooth® 5 provides secure data transmission, while Low Energy technology extends battery life. A built-in battery gauge and quick-swap design minimize downtime.

Designed for strict hygiene standards, the CR2100 features wireless inductive charging to eliminate exposed metal, along with a seamless, IP52-rated design and CodeShield® Level 1 plastics for fast, thorough disinfection.

Beyond the device, we support a smooth deployment with a comprehensive protection plan—making the CR2100 a complete solution built to maximize uptime and support your business needs.

Expect More

- High-speed, multidirectional reading of 1D and 2D barcodes
- QuickConnect to host PC via base station, dongle, or DirectConnect
- Bluetooth® 5 Low Energy enhances data security and extends battery life
- Visual, audible, and haptic feedback
- Batch mode stores data for later offload
- Smart battery with built-in power gauge for proactive management
- Compatible with Android, iOS, and Windows (via USB or Bluetooth)
- Swappable battery keeps business moving
- PVC-free CodeShield® plastics stand up to frequent cleaning
- Inductive charging eliminates potential charging contact failure caused by cleaners

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Accessories

- USB Charging Cables
- Power Supplies
- Batteries
- Bluetooth Inductive Charging Stations
- Desktop Mounts
- Wall Mount Brackets
- VESA Mount Brackets
- Precut Adhesive Tapes
- Thumb Screws
- Bluetooth® Dongles

Typical Working Ranges

Test Barcode	Min mm (inches)	Max mm (inches)
7.5 mil Code 39	1.25" (32 mm)	6.4" (162 mm)
10.5 mil GS1 Databar	0.59" (15 mm)	5.75" (146 mm)
13 mil UPC	0.905" (23 mm)	10.0" (254 mm)
6.3 mil DM	1.10" (28 mm)	4.17" (106 mm)
10 mil DM	0.63" (16 mm)	6.46" (164 mm)
20.8 mil DM	0.83" (21 mm)	12.52" (318 mm)

Note: All samples were high-quality barcodes and were read along a physical center line at a 10° angle. Measured from the front of the read with default settings in metric units then converted to imperial units. Testing conditions may impact working ranges.

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Physical Characteristics

Reader Dimensions	5.1" H x 2.1" W x 5.1" L (129 mm H x 52 mm W x 130 mm L)
Charging Station Dimensions	Charging Station: 1.9" x 3.1" W x 3.1" L (49 mm H x 79 mm W x 79 mm L) With base: 2.2" H x 3.7" W x 4.8" L (55 mm H x 93 mm W x 121 mm L)
Reader Weight	6.2 oz. (177 g) including battery
Charging Station Weight	3.4 oz. (97 g)
IP Rating	52
Colors	Black

Performance Characteristics

Field of View	Single field: 50° horizontal by 33.5° vertical
Focal Point	Approximately 3.9" (100 mm)
Sensor	CMOS 1.2 megapixel (1280 x 960) grayscale
Optical Resolution	Single field: 960 x 640
Pitch	± 65° (from front to back)
Skew	± 60° from plane parallel to symbol (side-to-side)
Rotational Tolerance	± 180°
Symbol Contrast	15% minimum reflectance difference
Target Beam	Single blue targeting bar, 470 nm
Ambient Light Immunity	Sunlight: Up to 9,000 fc (96,890 lux)
Shock	Withstands multiple drops of 6' (1.8 m) to concrete
Power Requirements	Reader: 5 VDC; Charging station: 5 W max; Quad-bay charger: 6 W max
Number of Scans	Up to 50,000 scans per charge
ESD Protection	15 kV air, 8 kV direct
Charge Station Communication Interfaces	USB 2.0 (Generic HID, HID Keyboard, CDCS)
Reader Communication	Bluetooth® 5 Low Energy (Class II)
Warranty	Visit the warranty page at pdchealthcare.com

User Environment

Operating Temperature	-4° to 131° F (-20° to 55° C)
Storage Temperature	-22° to 150° F (-30° to 65° C)
Humidity	5% to 95% non-condensing
Decode Capability	1D: BC412, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, IATA 2 of 5, Interleaved 2 of 5, GS1 DataBar, Hong Kong 2 of 5, Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Pharmacode, Plessey, Straight 2 of 5, Telepen, Trioptic, UPC/EAN/JAN
	Stacked 1D: Codablock F, Code 49, GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417
	2D: Aztec Code, Data Matrix, Data Matrix Rectangular Extension, Grid Matrix, Han Xin, Maxicode, Micro QR Code, QR Code, QR Model 1, Dot Code
	Proprietary 2D: GoCode® (optional license required)
	Postal codes: Australian Post, Canada Post, Intelligent Mail, Japan Post, KIX Code, Korea Post, Post-Net, Planet, UK Royal Mail, UPU ID-tags
Image Output Options	Formats: JPEG, BMP or PGM
Field of View	Wide field
Data Parsing	GS1, HIBC, driver's licenses & ID cards
Data Structure Validation	ISO15418, ISO15434, HIBC UDI