

DATA SHEET CR2100

CODE READER 2100



Expect More

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

Common Applications



Features at a Glance



The New Standard for Barcode Scanning

The CR2100 is one of Code’s fourth-generation barcode readers, combining nearly twenty years of market experience with new features for improving workflows. We took unparalleled scanning performance and stepped it up a notch, tackling even more damaged and poorly printed barcodes to keep business moving.

Worried about keeping things clean? With the introduction of wireless (inductive) charging, Code has eliminated any exposed metal. Combined with seamless construction, an IP52 rating and top-of-the-line CodeShield® Level 1 plastics, the CR2100 can be quickly and completely wiped down with a wide variety of chemicals.

The CR2100 brings Bluetooth® 5 to your scanning, increasing the security level on data transmission. By implementing a Bluetooth Low Energy radio, Code has extended the battery life on the CR2100 to further minimize downtime during the workday. A built-in gauge tells users when it is time to change the battery, which can quickly be swapped for a fresh one, getting your team right back to work.

Code is also ready to assist with installation and training options to ensure a smooth rollout, and Code protection plans practically eliminate downtime in the future. **Code knows barcode scanning and the CR2100 is ready to tackle your scanning needs.**

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Accessories

- USB Charging Cable
- Power Supplies
- Battery Cartridge
- Bluetooth Inductive Charging Station
- Desktop Mount
- Wall Mount Bracket
- VESA Mount Bracket
- Precut Adhesive Tapes
- Thumb Screws
- Bluetooth® Dongle

Typical Working Ranges

Test Barcode	Min Inches	Max 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: Working ranges are a combination of both the wide and high density fields. 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	Wide 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	Wide 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: codecorp.com/support/warranty

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