

## Code Reader 2.0™



The Code Reader 2.0 (CR2) can read and decode all existing bar code symbols. Whether you are reading smaller, high density two-dimensional codes, or larger, low density linear codes, the CR2 will outperform all other devices in its class. Code's unique Dynamic Optimization Technology (DOT™) quickly adapts a reader to its reading environment, continually improving reader performance. The CR2 incorporates a unique dual path optical system, a 1.3 million pixel CMOS sensor and a 400 MHz processor. The CR2 reader features a beep and vibrate mode, multifunction LED indicators and two top control buttons. While it can be further ruggedized for high-volume use case scenarios, the CR2 reader is lightweight with a unique ergonomic design. CR2 operates efficiently in batch, cabled or wireless modes with accessories to further enhance use-case functionality.



Wireless readers are available with a Bluetooth® Class I radio (with a range of 300 feet /100 meters) or Class III radio (30 feet / 9.5 meters) with Bluetooth firmware V1.2; the firmware is easily upgradeable in the field. The CodeXML Bluetooth Modem enables simplified wireless transmission of captured data to a host computer or system. Code's JavaScript Software Development Kit provides programming tools for integrating captured data into enterprise software.

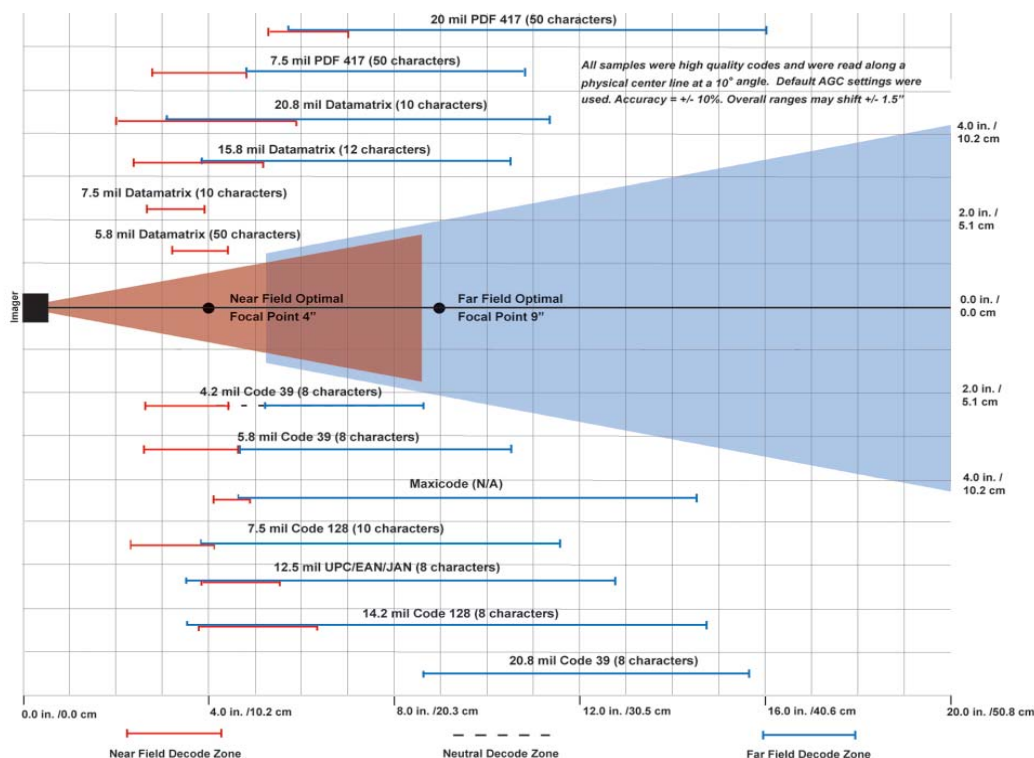
The CR2 can be accompanied by a variety of accessories, making it is the only product available in: batch, cabled or wireless formats; hand-held, ruggedized cabled, or battery handle use-case scenarios; and, lanyard hook attachment or presentation stand form factors. Code's full line of reader accessories tailor the reader's use to best meet your needs.

### CR2 Features & Benefits

- Reads and decodes all symbologies
- Low cost; best-in-class
- Lightweight, ergonomic design
- Equally efficient in batch, cabled or wireless modes
- 'Good read' feedback with audible tones and LED indicators
- Firmware is field upgradeable
- Code's proprietary DOT technology quickly adapts reader's performance to reading environment
- Data output via Bluetooth, USB , RS232 or Keyboard options
- JavaScript Application Development Suite allows program development to prepare captured data for integration with enterprise software
- Accessories available to further ruggedize reader for high-volume use scenarios



## Working Range



## Physical Characteristics

Reader Dimensions:	1.3" H x 4.3" L x 1.8" W (3.3cm H x 10.9cm L x 4.6cm W)
Reader Weight:	2.5 oz (71.5 gm)
Battery Weight:	2.1 oz (59.5 gm)
Battery Blank Weight:	.5 oz (13.6 gm)



## User Environment

Operating Temperature:	0 ° to 50 ° C / 32 ° to 122 ° F
Storage Temperature:	-20 ° to 65 ° C / -4 ° to 150 ° F
Humidity:	5% to 95% non-condensing
Decode Capability:	MaxiCode, PDF417 (including Macro support), Data Matrix, QR and Micro QR, MicroPDF417, GoCode*, Composite, Code 11, Aztec, Code 39, Code 128, Pharmacode, UPC/EAN/JAN, Int 2 of 5, Codabar, Codablock F, Code 93, RSS, Postnet, Planet, Japanese Post, Australian Post, Royal Mail, KIX, MSI Plessey, Trioptic, NEC 2 of 5, Matrix 2 of 5, Telepen, OCR (A & B*), and Hong Kong (2 of 5)
Image Output Options:	Formats: JPEG, Raw (Uncompressed)
Field Selection:	Near or Far
Resolution Selection:	1024 x 640 (Multiple Window Options)
Grayscale:	256 Level
Time Stamp:	Interval Logging
Data Editing:	JavaScript Capable*

\* Requires Additional Licensing

## Performance Characteristics

Field of View:	Near: 21.5° horizontal by 16.2° vertical Far: 22.9° horizontal by 11.6° vertical
Focal Point:	Near: approximately 4" Far: approximately 9"
Sensor:	Progressive Scan CMOS 1.33 MP (1024x1280) 256 level gray scale
Optical Resolution:	Near Field: 1024 x 640 Far Field: 1024 x 640
Pitch:	± 60 ° (from front to back)
Skew:	± 60 ° from plane parallel to symbol (side-to-side)
Rotational Tolerance:	± 180 °
Print Contrast Res.:	25% (1-D symbologies) or 35% (PDF417) absolute dark/light reflectance differential, measured at 650 nm
Target Beam:	Class 2M Visible Laser Diode at 630nm
Ambient Light Immunity:	Sunlight: Up to 9,000ft-candles/96,890 lux
Shock:	Withstands multiple drops of 6 feet (1.8 Meters) to concrete
Power Requirements:	Reader @ 5vdc (mA) - Typical = 140; Peak = 310; Idle = n/a; Sleep = 3; Bluetooth Radio @ 90m away (mA) Typical = 280 Peak = 350; Idle = 96; Sleep = 3 1950 mAh Battery in reader with radio will support 11,000+ reads/transmits per charge.
Optional Cable Interfaces:	USB (Full Speed), RS232 & PS/2
Code Quality:	Code Readability Index
Memory Capacity:	3.8 MB Non-Volatile Memory
Operational Modes:	Wireless, Cabled or Batch Modes

## Accessories

- External Two-Bay Battery Charger
- CodeXML Bluetooth Modem
- CodeXML Router Software
- Software Development Kits
- Ruggedized Cabled or Battery Handle
- Reader Stand
- USB, PS/2 & RS232 Cables
- 1950 mAh Li-Ion batteries
- US/Europe/SA/UK/Asia Power Supply
- Protective Case Cover or Holster
- Elastomer Protective Boot



**code**

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Specifications  
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