Code Reader 2.0

Code Reader 2.0 (CR2)

CR2 is a revolutionary new, bar code reader. Developed to be the first universal reader, no other single device performs as many functions. With a cost of ownership far less than comparable systems, the CR2 incorporates a unique dual path optical system, a 1.3 million pixel CMOS sensor, and a 400 MHz processor. This combination has created a reading system that supports:

- High density matrix codes and larger low density linear codes
- Superior working range
- High-speed omni-directional decoding
- Cordless and cabled interfaces
- Unsurpassed data rates
- Linux OS (OEM version)

The CR2 sets a new benchmark for size and weight. It is smaller and lighter than comparable systems yet can withstand multiple drops to concrete. It is the only product available in handheld, gun handle, and presentation stand form factors with cabled, batch and cordless versions. The cordless version utilizes the latest Bluetooth™ class 1 radio with a 300 foot operating range. Although rugged and lightweight, the cordless version will operate for more than a complete shift at the highest use rate. The CR2 performs more than 3000 reads and transmits from a single battery charge.

The CR2 is versatile enough for the most demanding warehouse and production applications, yet graceful, rapid and economical enough for point-of-sale applications. Small and light enough to be used in parcel tracking, the CR2 features a 1300 milliamp Lithium-Ion battery and 8 MB of non-volatile memory, outperforming all other store and forward devices.

CR2 will automatically discriminate between all major 2-D matrix and linear barcode symbologies and features a timestamp feature for logging data.

"Bluetooth is a trademark owned by Bluetooth SIG, Inc. and is used by Code under license."

Whether you need a small, palm held device or a traditional gun, CR2 was specifically developed so users may easily choose the device that best meets their needs. The CR2 is available in three (3) configurations:

CR2 Cabled

The CR2 cabled version is available with USB (standard), RS-232 or PS2 interfaces. All cables use rugged automatic locking adapters that allow users to change cables, but prevent inadvertant disconnections.

CR2 Batch (Store-Forward)

The CR2 Batch version features a 1300 mA or 1800 mA Lithium-Ion battery with a 3000 scan lifespan plus 8 hours of standby time. The unit features 8 MB of non-volatile memory and automatically recharges when connected via the USB, RS-232 or PS2 interface.

CR2 Cordless

The CR2 Cordless version features a class 1 Bluetooth radio with a 300 foot operating range (when connected with another Class 1 device). The CR2 communicates seamlessly with desktop PC's, laptop PC's, PDA's, printers, cell phones, point of sale devices, LAN and WLAN routers. CR2 offers 3000 reads and transmittals plus 8 hours of standby time

CR2 Adapters and Accessories

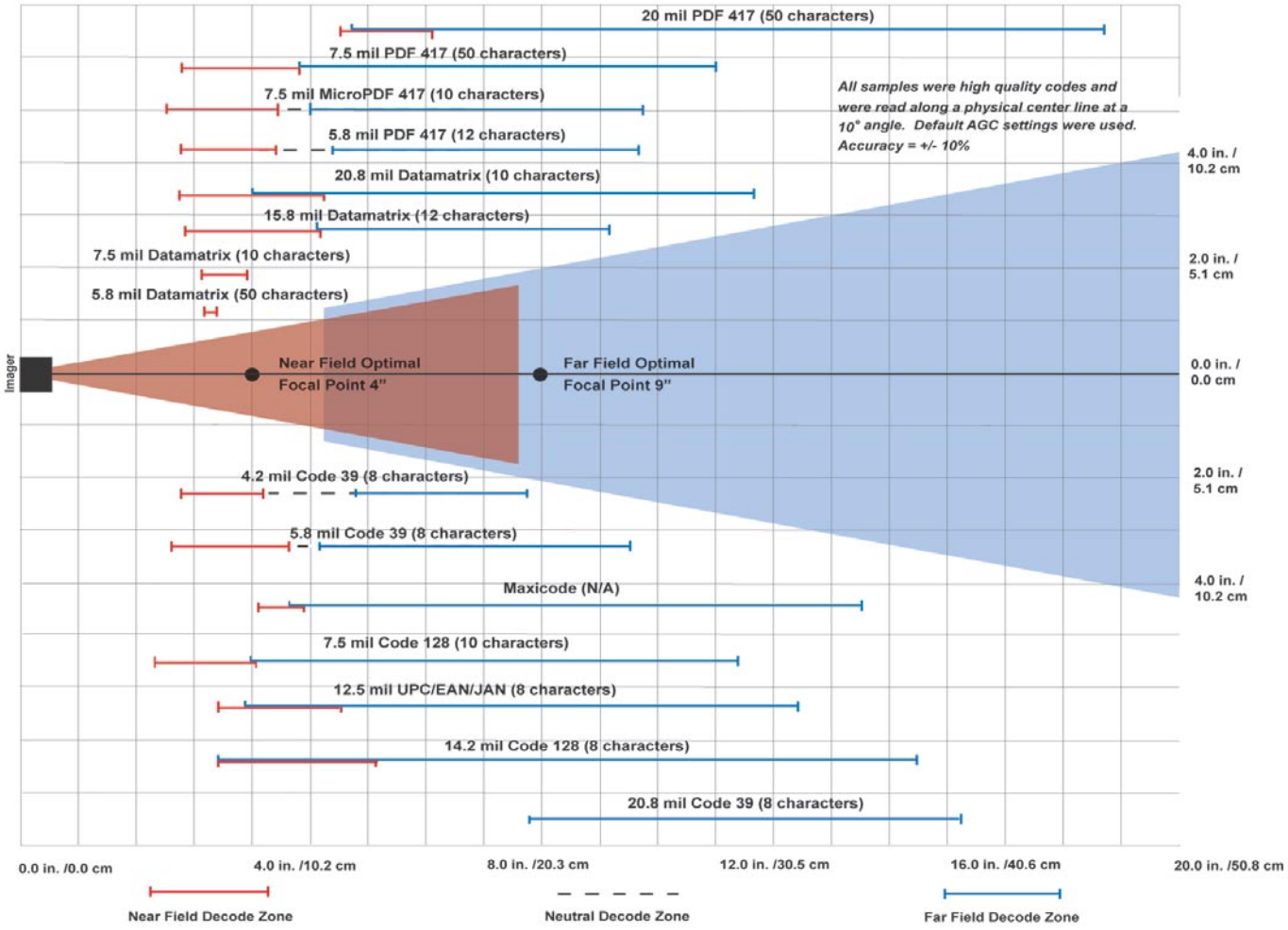
The CR2 was developed to be configurable and features the following accessories:

- 3 cable options (USB, RS-232 or PS2)
- 1300 mA or 1800 mA long-life Lithium-Ion battery
- Class 1 Bluetooth radio with 300 foot operating range
- Clip-on pistol grip handle
- External battery charger
- Belt clip (Available Q1 2004)

Code Corporation

Code designs, develops and manufactures automatic ID implementation and data collection platforms. Incorporating imaging in its innovative reading hardware and providing unsurpassed flexibility in its CodeXML™ open-platform software, Code supplies a complete set of tools to manage complex data collection applications using the latest Internet-based systems. Code headquarters are located in the Salt Lake City, Utah metropolitan area.

CR2 Decode Zone - Features simulateous near-field and far-field decoding creating a a decode zone from 2” - 20”



Physical Characteristics

Dimensions: Reader: 1.3” H x 4.3” D x 1.8” W
(3.3cm H x 10.9cm L x 4.6cm W)
Handle: 3.8” H x 1.4” D x 1.2” W
(9.65cm H x 3.6cm D x 3cm W)

Weight: Reader: 2.5 oz (71.5) - Does not include cable
Battery: 2.1 oz (59.5 gm) - Does not include cable
Battery Blank: .5 oz (13.6 gm) - Does not include cable
Handle: 2.1 oz (58.9 gm) - Does not include cable

Cable Length: 6ft/1.8m

User Environment

Operating Temperature: 0 ° to 40 ° C/32 ° to 104 ° F

Storage Temperature: -20 ° to 60 ° C/-4 ° to 140 ° F

Humidity: 0% to 95% noncondensing

Decode Capability: MaxiCode, PDF417 (including Macro support), Data Matrix, QR Code, MicroPDF417, GoCode, UCC Composite, Aztec Code, Code 39, Code 128, UPC/EAN/JAN, Int 2 of 5, Codabar, Codablock F, Code 93, UCC RSS, POSTNET, PLANET, Japanese Post, Australia Post, Royal Mail RM4SCC, KIX code

Image Output Options: Formats: JPEG, Raw (Uncompressed)
Field Selection: Near or Far
Resolution Selection: 1024 x 640 (Multiple Options)
Gray Scale: 256 Level

Time Stamp: Interval Logging

Performance Characteristics

Field of View: Near: 21.5º horizontal by 16.2º vertical
Far: 22.9º horizontal by 11.6º vertical

Focal Point: Near: 21.5º horizontal by 16.2º vertical
Far: 22.9º horizontal by 11.6º vertical

Sensor: Progressive Scan CMOS 1.33MP (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% (1D symbologies) or 35% (PDF417) absolute dark/light reflectance differential, measured at 650 nm

Target Beam: Class 2 Visible Laser Diode at 630nm

Ambient Light Immunity: Sunlight: Up to 9,000ft-candles/96,890 lux

Shock: Withstands multiple drops of 6.56 feet (2 Meters) 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; @ 50m away - Typical = 270 Peak = 350; Idle = 96; Sleep = 3; @ 10m away - Typical = 260 Peak = 350; Idle = 96; Sleep = 3; Battery with radio will support 4000 read/ transmits per charge including 8 hours of standby interval.

Interfaces: USB (standard), RS-232, PS2, Bluetooth Class 1 Radio (300 feet)

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CAUTION CLASS 2 LASER Do not stare into beam