

# CODE READER™ 2300



## Features & Benefits

- Lightweight, ergonomic palm style reader
- Durable, quick-release rechargeable battery cartridges
- Battery status LED indicators with fuel gauge
- User feedback with audible tones and LED
- High speed, omnidirectional reading of 1D and 2D barcodes
- Reads barcodes on cell phone screens
- Multiple programmable buttons for customized workflow processes
- Easy to clean, IP43 housing
- Paging button to assist in locating reader (Charging Station with embedded CodeXML® modem option only)
- CortexRM™ remote management ready
- Powerful data management capability with JavaScript



CR2300 with charging station.

## Keep things moving in the right direction.

Time is of the essence when it comes to customer satisfaction. The Code Reader™ 2300 (CR2300) is a reliable, Bluetooth barcode reader designed for use in retail applications—from inventory tracking and age verification to e-forms and mobile coupons and ticketing. Its ease of use and rapid data transmission allow it to securely handle anything that comes its way.

The CR2300 is an ideal match with other Bluetooth-enabled devices powered by iOS, Android and Windows operating systems. The versatile interface between reader and mobile device is seamless, and requires no need for modified or additional software. The CR2300 is also equipped with a robust imaging decode engine that generates omni-directional barcode reading and high-speed data output. Features like these equate to fewer delays and shorter lines at check-out counters—both of which are key factors in garnering positive customer relations.

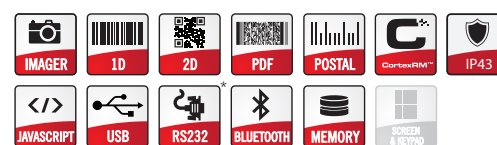
## Simple solutions in the palm of your hand.

For added versatility the CR2300 features two programmable buttons for customized workflow applications, driver license parsing capability, and is remote management ready. The CR2300 is a highly customizable barcode reader geared towards retailers looking for a practical way to simplify both new and existing workflow processes.

## Applications

Retail, mobile POS, manufacturing, warehouse, scanning highly reflective barcodes

## Features at a glance



\*RS232 is only available as CodeXML® M3 Modem Communication Interface Option

# CODE READER™ 2300 SPECIFICATIONS

## Physical Characteristics

<b>Palm Reader Dimensions</b>	1.1" H x 5.1" L x 2.0" W (28mm H x 130mm L x 51mm W)
<b>Charging Station Dimensions</b>	2.4" H x 4.5" L x 3.3" W (60mm H x 115mm L x 83mm W)
<b>Palm Reader Weight</b>	4.5 oz (128 g)
<b>Battery Weight</b>	1.7 oz (48 g)
<b>Charging Station with Embedded Modem Weight</b>	5.4 oz (153 g)
<b>Charging Station without Embedded Modem Weight</b>	4.9 oz (139 g)

## User Environment

<b>Operating Temperature</b>	-20° to 55° C / -4° to 131° F
<b>Storage Temperature</b>	-30° to 65° C / -22° to 150° F
<b>Humidity</b>	5% to 95% non-condensing
<b>Decode Capability</b>	<b>1D:</b> Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, Interleaved 2 of 5, GS1 DataBar (RSS), Maxtrix 2 of 5, MSI Plessey, Plessey, Straight 2 of 5, Trioptic, UPC/EAN/JAN <b>Stacked 1D:</b> GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417 <b>2D:</b> Aztec Code, Data Matrix, Micro QR Code, QR Code, Han Xin <b>Proprietary 2D:</b> GoCode® (Additional License Required)
<b>Image Output Options</b>	Formats: JPEG or PGM
<b>Field Selection</b>	Wide Field
<b>Data Editing</b>	JavaScript (Additional License Required) / CodeXML® Rules

## Working Ranges

CR2300 Performance

Test Code	Min Inches (mm)	Max Inches (mm)
4 mil Code 39	1.6" (40 mm)	3.1" (78 mm)
7.5 mil Code 39	1.3" (34 mm)	7.2" (182 mm)
9.5 mil Code 128	0.6" (15 mm)	8.3" (212 mm)
10.5 mil UPC	0.8" (20 mm)	9.0" (228 mm)
13 mil UPC	1.1" (28 mm)	11.0" (280 mm)
4.2 mil DM*	1.9" (48 mm)	2.6" (66 mm)
5 mil DM*	1.7" (43 mm)	3.0" (76 mm)
6.3 mil DM*	1.3" (33 mm)	4.1" (104 mm)
10 mil DM*	0.8" (20 mm)	6.5" (165 mm)
20.8 mil DM*	1.1" (28 mm)	13.5" (343 mm)

Note: All samples were high quality codes and were read along a physical center line at a 10° angle. Default AGC settings were used. Accuracy= +/- 10%.

## Performance Characteristics

<b>Field of View</b>	Wide Field: 50° horizontal by 33.5° vertical
<b>Focal Point</b>	Approximately 100 mm
<b>Sensor</b>	CMOS gray scale
<b>Optical Resolution</b>	Wide Field: 960 x 640
<b>Pitch</b>	± 60° (from front to back)
<b>Skew</b>	± 60° from plane parallel to symbol (side-to-side)
<b>Rotational Tolerance</b>	± 180°
<b>Print Contrast Res.</b>	25% (1D symbologies) or 35% (2D symbologies) absolute dark/light reflectance differential, measured at 650 nm
<b>Target Beam</b>	Single, blue targeting bar
<b>Ambient Light Immunity</b>	Sunlight: Up to 9,000ft-candles/96,890 lux
<b>Shock</b>	Withstands multiple drops of 6' (1.8 Meters) to concrete
<b>Power Requirements</b>	Reader @ 4.2vdc (mA): Typical and Peak = 362 mA; Idle = 80 mA; Sleep = 20 mA Charging Station with Embedded CodeXML® Modem @ 5vdc (mA): USB max charge rate = 555 mA USB trickle charge rate = 165 mA Charging Station with External CodeXML® M3 Modem @ 5vdc (mA): USB max charge rate = 514 mA USB trickle charge rate = 125 mA
<b>Number of Scans</b>	Up to 50,000 scans per charge
<b>Memory Capacity</b>	128MB Flash ROM, 32MB RAM
<b>Bluetooth Modem</b>	RS232, USB.2.0 (Generic HID, HID Keyboard, Virtual COM Port)
<b>Communication Interfaces</b>	Bluetooth (Class II)
<b>Operational Modes</b>	
<b>Warranty</b>	1 Year

## Accessories

- Lithium-Ion Battery
- USB Charging Cable, US, Europe/South America, UK Power Supplies
- Charging Station
- Mini-USB (charging station with embedded CodeXML® Modem), USB and RS232 Cables (via External CodeXML® M3 Modem)
- Charging Station with Embedded CodeXML® Modem
- Software Development Kits
- CodeXML® M3 Modem (external)
- CodeXML® Router Software



**code**  
ADVANCED BARCODE READERS

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