

# 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
- Unequaled performance on rounded, curved and shiny surfaces
- 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)
- Reads barcodes on cell phone screens
- 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 applications is seamless, and requires no need for modified or additional software. The CR2300 also carries a robust decoding engine that generates high-speed data output and omnidirectional barcode reading. 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.

A straightforward approach to hardware management makes the CR2300 an intelligent investment in high-caliber performance. This sensible remote management tool is geared toward retailers looking for a practical way to simplify workflow without affecting the budget. The CR2300 is available in a dark gray, palm configuration that includes a charging station, quick-release, rechargeable battery cartridges, and battery status LED indicators with a fuel gauge.

## Applications

Retail, manufacturing, 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)
<b>IP Rating</b>	43

## 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>	<p><b>1D:</b> 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, Pharmaco, Plessey, Straight 2 of 5, Telepen, Trioptic, UPC/EAN/JAN</p> <p><b>Stacked 1D:</b> Codablock F, Code 49, GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417</p> <p><b>2D:</b> Aztec Code, Data Matrix, Data Matrix Rectangular Extension, Grid Matrix, Han Xin, Maxicode, Micro QR Code, QR Code, QR Model 1</p> <p><b>Proprietary 2D:</b> GoCode® (Additional License Required)</p> <p><b>Postal Codes:</b> Australian Post, Intelligent Mail, Japan Post, KIX Code, Korea Post, Planet, Postnet, UK Royal Mail, UPU ID-tags</p>
<b>Image Output Options</b>	Formats: JPEG or PGM
<b>Field Selection</b>	Wide Field
<b>Data Editing</b>	JavaScript

## Working Ranges

### CR2300 Performance

Test Barcode	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)
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 barcodes 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>	± 65° (from front to back)
<b>Skew</b>	± 60° from plane parallel to symbol (side-to-side)
<b>Rotational Tolerance</b>	± 180°
<b>Print Contrast</b>	15% minimum reflectance difference
<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>	<p>Reader @ 4.2vdc (mA): Typical and Peak = 362 mA; Idle = 80 mA; Sleep = 20 mA</p> <p>Charging Station with Embedded CodeXML® Modem @ 5vdc (mA): USB max charge rate = 555 mA USB trickle charge rate = 165 mA</p> <p>Charging Station with External CodeXML® M3 Modem @ 5vdc (mA): USB max charge rate = 514 mA USB trickle charge rate = 125 mA</p>
<b>Number of Scans</b>	Up to 50,000 scans per charge
<b>Memory Capacity</b>	128MB Flash ROM, 32MB RAM
<b>Bluetooth Modem Communication Interface</b>	RS232, USB.2.0 (Generic HID, HID Keyboard, Virtual COM Port)
<b>Reader Communication Interface</b>	Bluetooth (Class II)
<b>Warranty</b>	www.codecorp.com

## Accessories

- Battery Cartridge
- 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
- CodeXML® M3 Modem (external)
- CodeXML® Router Software



**code**<sup>®</sup>  
REVOLUTIONIZING BARCODE READING

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