CODE READER™ 2300

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.

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.

Applications

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

Features at a glance

IMAGER	1D	2D	PDF	POSTAL	CortexRM™	IP43

JAVASCRIPT	USB	RS232*	BLUETOOTH	MEMORY	SCREEN & KEYPAD

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

Physical Characteristics

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

User Environment

Operating Temperature	-20° to 55° C / -4° to 131° F
Storage Temperature	-30° to 65° C / -22° to 150° F
Humidity	5% to 95% non-condensing
Decode Capability	**1D:** 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
	Stacked 1D: GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417
	2D: Aztec Code, Data Matrix, Micro QR Code, QR Code, Han Xin
	Proprietary 2D: GoCode® (Additional License Required)
Image Output Options	Formats: JPEG or PGM
Field Selection	Wide Field
Data Editing	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

Field of View	Wide Field: 50° horizontal by 33.5° vertical
Focal Point	Approximately 100 mm
Sensor	CMOS gray scale
Optical Resolution	Wide Field: 960 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% (2D symbologies) absolute dark/light reflectance differential, measured at 650 nm
Target Beam	Single, blue targeting bar
Ambient Light Immunity	Sunlight: Up to 9,000ft-candles/96,890 lux
Shock	Withstands multiple drops of 6' (1.8 Meters) to concrete
Power Requirements	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
Number of Scans	Up to 50,000 scans per charge
Memory Capacity	128MB Flash ROM, 32MB RAM
Bluetooth Modem	RS232, USB.2.0 (Generic HID, HID Keyboard, Virtual COM Port)
Communication Interfaces Operational Modes	Bluetooth (Class II)
Warranty	1 Year

Accessories

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

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Legacy, Inc.,
160 West Road,
Ellington, CT 06029

Toll Free: 866-271-9891
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