

# Code Reader™ 1000



(Light Gray CR1000)

## Features & Benefits

- High speed, omnidirectional reading of 1D and 2D bar codes
- Dual field optics, both high density and wide field in the same unit
- Glare reduction technology for reading codes on shiny surfaces
- Manual or automatic triggering
- Bright, LED indicators and loud, programmable audible tone indicator
- Reads bar code reliably off cell phone screens
- Compatible with Code's CortexTools™ software configuration utility
- Data editing and parsing with JavaScript
- Uses Code's new rapid disconnect Affinity® cables
- Extremely low power consumption
- Available in light and dark gray
- Disinfectant ready housing



## Overview

The Code Reader™ 1000 (CR1000) features a compact design that takes up limited workspace without compromising bar code reading performance. The patented dual-field optical platform of the CR1000 allows users to scan both wide bar codes and very small bar codes with the same device. In addition, the CR1000 features Code's glare reduction technology for scanning bar codes printed on shiny surfaces, such as bottles, syringes and IV bags. This patented glare reduction technology allows the CR1000 to be configured to read bar codes shown on mobile phones in such applications as mobile ticketing and mobile coupons.

The bright blue aiming bar of the CR1000 makes reading bar codes simple and intuitive. In addition, the reader features Code's new Affinity rapid disconnect cable set which offer durable connectivity to both the reader and the host device without compromising the ability to quickly remove and replace damaged cables. For data editing and parsing, end users can take advantage of Code's JavaScript rules to create custom routines and applications that are easily embedded into the reader.

The unique design of the reader gives System Integrators and Value Added Resellers the flexibility to use the CR1000 in a wide range of applications. For retail applications, the CR1000 can be used in either hands-free or handheld mode and can be combined with various peripherals for truly unique point-of-sale solutions. With environmentally friendly power management, the CR1000 boasts the lowest power consumption for a product in its class. Whether its mobile devices such as workstations-on-wheels, tablet PCs or environmentally conscious kiosk operators, the CR1000 power consumption won't drain your battery or your pocketbook.



(Dark Gray CR1000)

Applications for the CR1000 include: Healthcare, Mobile coupon or ticketing (event, airline, cinema, etc), Pharmacy, Patrol Vehicles, ATMs or Kiosks, Retail, and Manufacturing.

# Code Reader™ 1000 Specifications

## Physical Characteristics

|                           |   |
|---------------------------|---|
| <b>CR1000 Dimensions:</b> | 2.6" L x 2.2" W x 1.7" H<br>(67 mm L x 52 mm W x 30 mm H) |
| <b>CR1000 Weight</b>      | 2.4 oz  |
| <b>Color Options:</b>     | Available in light or dark gray                           |
| <b>IP Rating</b>          | 54  |

## Performance Characteristics

|                                  |   |
|----------------------------------|---|
| <b>Field of View:</b>            | High Density Field: 30° horizontal by 20° vertical<br>Wide Field: 50° horizontal by 33.5° vertical            |
| <b>Focal Point:</b>              | High Density Field: approximately 100 mm<br>Wide Field: approximately 115 mm                                  |
| <b>Sensor:</b>                   | CMOS 1.2 Megapixel<br>(1280 x 960) gray scale   |
| <b>Optical Resolution:</b>       | High Density Field: 960 x 640<br>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)  |
| <b>Power Requirements:</b>       | Reader @ 5vdc (mA): Typical = less than 450 mA; Idle = less than 80 mA; Sleep = less than 31 mA               |
| <b>Memory Capacity:</b>          | 128MB Flash ROM, 32MB RAM   |
| <b>Communication Interfaces:</b> | RS232, USB 2.0 (Generic HID, HID Keyboard, Virtual Com Port)  |
| <b>Warranty:</b>                 | 2 year standard warranty; extended service plan available   |

## Accessories

- USB Affinity® Straight Cables
- RS232 Affinity® Coiled Cable
- USB Affinity® Coiled Cables
- Straight Affinity® Locking USB+ Power Connector
- Universal Stand



CR1000 with Universal Stand

## 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<br><br><b>Stacked 1D:</b> GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417<br><br><b>2D:</b> Aztec Code, Data Matrix, Micro QR Code, QR Code, Han Xin<br><br><b>Proprietary 2D:</b> GoCode® (Additional License Required) |
| <b>Image Output Options:</b>  | Formats: JPEG, PGM, BMP   |
| <b>Field Selection:</b>       | High-Density or Wide Field  |
| <b>Data Editing:</b>          | JavaScript (Additional License Required)  |

## Working Ranges

| CR1000 Performance   |                 |                 |
|----------------------|-----------------|-----------------|
| Test Code            | Min Inches (mm) | Max Inches (mm) |
| 3 mil Code 39        | 3.1" (80 mm)    | 4.0" (102 mm)   |
| 7.5 mil Code 39      | 1.3" (33 mm)    | 7.2" (182 mm)   |
| 10.5 mil GS1 DataBar | 0.8" (20 mm)    | 8.7" (220 mm)   |
| 13 mil UPC           | 1.1" (28 mm)    | 11.0" (280 mm)  |
| 4.2 mil Data Matrix  | 1.9" (48 mm)    | 4.3" (110 mm)   |
| 5 mil Data Matrix    | 1.7" (43 mm)    | 4.5" (115 mm)   |
| 6.3 mil Data Matrix  | 1.3" (33 mm)    | 5.9" (150 mm)   |
| 10 mil Data Matrix   | 0.8" (20 mm)    | 7.1" (180 mm)   |
| 20.8 mil Data Matrix | 1.1" (28 mm)    | 13.5" (343 mm)  |

Note: working ranges are a combination of both the wide and high density fields. 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%.

**code**

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Specifications subject to change without notice.

