

Code Reader™ 1400



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
- 3 programmable indicators: vibration mode, LED and tone
- Comes with Universal Stand
- 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 rapid disconnect Affinity® cables
- Low power consumption
- Available in dark and light gray
- Disinfectant ready, IP54 housing

Overview



The Code Reader™ 1400 (CR1400) is a compact, rugged bar code reader that features a high performance scan engine, patented dual-field optical platform and intuitive targeting that makes reading 1D and 2D bar codes extremely fast, reliable, and more affordable than ever.

The CR1400's dual-field optical platform, allows users to read both wide and very small bar codes with the same device. In addition, the CR1400 features Code's glare reduction technology for reading bar codes printed on shiny surfaces. In retail applications, bar codes printed on items such as bottles, pre-packaged food products, and shiny cans can be easily ready. Coupons on mobile phones can be read in a snap, without slowing down the checkout process. In healthcare applications, the CR1400 can scan all standard bar codes throughout your facility including difficult to read codes found on items such as syringes, IV bags, and items with extra plastic wrapping.

The CR1400 can be used in either hands-free or handheld mode and can be combined with various peripherals for truly unique solutions. 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 innovative design of the CR1400 makes it one of the smallest, most durable bar code readers on the market today. Whether it is being used in a healthcare, retail, or other high-use environments, the CR1400's disinfectant ready plastic housing, and IP54 rating ensures that the performance and life of the reader is never compromised by harsh cleaning agents, dust and water ingress, or even multiple drops.

Applications for the CR1400 include: Healthcare, Mobile coupon or ticketing (event, airline, cinema, etc), Pharmacy, Patrol Vehicles, Retail, and Manufacturing.



Code Reader™ 1400 Specifications

Physical Characteristics

CR1400 Dimensions:	5.5" H x 2.75" L x 2.0" H (140 mm H x 70 mm L x 50 mm W)
CR1400 Weight	3.9 oz (110 g)
Color Options:	Available in light or dark gray
IP Rating	54

Performance Characteristics

Field of View:	High Density Field: 30° horizontal by 20° vertical Wide Field: 50° horizontal by 33.5° vertical
Focal Point:	Approximately 100 mm
Sensor:	CMOS 1.2 Megapixel (1280 x 960) gray scale
Optical Resolution:	High Density Field: 960 x 640 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)
Power Requirements:	Reader @ 5vdc (mA): Typical = less than 450 mA; Idle = less than 80 mA; Sleep = less than 31 mA
Memory Capacity:	128MB Flash ROM, 32MB RAM
Communication Interfaces:	RS232, USB 2.0 (Generic HID, HID Keyboard, Virtual Com Port)
Warranty:	5 years

Accessories

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



CR1400 with Universal Stand

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, PGM, BMP
Field Selection:	High-Density or Wide Field
Data Editing:	JavaScript (Additional License Required)

Working Ranges

CR1400 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.

