



CODE READER™ 1000 XHD

Compact yet powerful, an efficient reader for barcodes in tight spaces.

Ideal for applications and environments where space-saving is critical, the CR1000 XHD takes up limited workspace without compromising barcode reading performance. A built-in macro lens and enhanced optical firmware platform generates an extremely high density field, increasing first-pass read rates of 1D, 2D and laser-etched marks as small as 2 mil. Motion detection options make barcode reading efficient whether in handheld or in-stand presentation mode. Weighing in at just 2.4 oz, capable of withstanding multiple drops from 6 feet and able to work in temperatures as high as 131° F, the CR1000 XHD could be the toughest featherweight you'll ever meet.

Features & Benefits

- High speed, omnidirectional reading of 1D, 2D and laser-etched barcodes
- Extreme high density field for reading barcodes as small as 2mil.
- Glare reduction technology for reading barcodes on shiny and mirrored surfaces
- Manual, motion detection and continuous scan barcode reading modes
- LED and programmable audible good read user feedback
- Reads barcodes reliably off PC and mobile device screens
- Data editing and parsing versatility with JavaScript
- For use with Code's USB or RS232 Affinity® cables
- Extremely low power consumption
- Compatible with Code's CortexTools® software configuration utility

Quick reads, advanced data management and excellent versatility.

The CR1000 XHD quickly and accurately reads barcodes from any surface. With glare reduction technology, even small barcodes on mirrored surfaces are easy targets, making this reader ideal for track and trace applications. For data editing and parsing, the internal JavaScript platform makes it easy for end users to embed custom routines and applications into the reader.

Working on a large scale in a limited workspace, the CR1000 XHD is your choice for huge performance on the smallest of barcodes.

Applications

Automotive, Semiconductor, Electronic Assembly, Pharmaceutical, Medical and Consumer Product industries

Features at a Glance



CODE READER™ 1000 XHD SPECIFICATIONS

Physical Characteristics

CR1000 XHD Dimensions	1.7" H x 2.6" L x 2.2" W (30 mm H x 67 mm L x 52 mm W)
CR1000 XHD Weight	2.4 oz (68 g)
Color Options	Available in dark gray
IP Rating	54

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	<p>1D: Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, IATA 2 of 5, Interleaved 2 of 5, GS1 DataBar (RSS), Hong Kong 2 of 5, Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Pharmacode, Plessey, Straight 2 of 5, Telepen, Trioptic, UPC/EAN/JAN</p> <p>Stacked 1D: GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417</p> <p>2D: Aztec Code, Code 49, Codablock F, Data Matrix, Han Xin, MaxiCode, Micro QR, QR Code</p> <p>Proprietary 2D: GoCode® (Additional License Required)</p> <p>Postal Codes: Australian Post, Intelligent Mail, Japan Post, KIX Code, Korea Post, Planet, Postnet, UK Royal Mail, UPU ID-tags</p> <p>Direct Part Marks: Barcodes applied by laser-etching</p>
Image Output Options	Formats: JPEG or PGM
Field Selection	High Density or Wide Field
Data Editing	JavaScript

Working Ranges

CR1000 XHD Performance

Test Barcode	Min Inches (mm)	Max Inches (mm)
3 mil Code 39	1.1" (29 mm)	2.1" (54 mm)
5.8 mil PDF417	0.9" (24 mm)	2.3" (59 mm)
7.5 mil Code 39	1.9" (50 mm)	2.8" (73 mm)
10.5 mil GS1 DataBar	1.2" (30 mm)	3.4" (86 mm)
13 mil UPC	1.8" (46 mm)	3.8" (98 mm)
3.3 mil DM	1.0" (26 mm)	1.7" (44 mm)
4.2 mil DM	0.9" (24 mm)	1.8" (46 mm)
5 mil DM	0.9" (24 mm)	2.0" (53 mm)
6.3 mil DM	0.8" (22 mm)	2.2" (56 mm)
10 mil DM	0.8" (22 mm)	2.7" (69 mm)
20.8 mil DM	0.8" (22 mm)	4.2" (107 mm)

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

Field of View	High Density Field: 30° horizontal by 20° vertical Wide Field: 50° horizontal by 33.5° vertical
Focal Point	High Density Field: approximately 100 mm Wide Field: approximately 115 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% 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 @ 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*	2 years

Accessories

- Various Cable Options Available. Visit www.codecorp.com/cables.php for a list of compatible cables
- Universal Stand



code® Web: www.codecorp.com
ADVANCED BARCODE READERS

* Warranty period is specific to North America and EMEA.