



CODE READER™ 1400 XHD

Smaller, smarter and tougher, the ideal barcode reader for challenging environments.

Designed for easy handling on long shifts, the CR1400 XHD is a lightweight barcode reader that doesn't skimp on performance. Its built-in macro lens and enhanced optical firmware generate an extreme high density field to increase first-pass read rates of 1D, 2D and laser-etched marks as small as 2 mil. Glare reduction technology allows the CR1400 XHD to decode barcodes from circuitry, pre-packaged food and mirrored surfaces with ease and its advanced data formatting capabilities means reliable data integration into any manufacturing application.

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 PCs and mobile device screens
- Data editing and parsing versatility with JavaScript
- Use with Code's USB or RS232 Affinity[®] cables
- Extremely low power consumption
- Compatible with Code's CortexTools[®] software configuration utility

One reliable partner, even in rigorous conditions.

The CR1400 XHD is built to perform in a variety of conditions. IP54 housing protects the reader against harsh cleaning agents, dust and water ingress. Its durable construction can even handle multiple drops to concrete floors. If you're working in unpredictable environments or need to accurately read barcodes on a range of items, the CR1400 XHD can stand up to whatever you throw its way.



Optional Universal Stand

Applications

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

Features at a Glance



CODE READER™ 1400 XHD SPECIFICATIONS

Physical Characteristics

CR1400 Dimensions	5.5" H x 2.75" L x 2.0" W (140 mm H x 70 mm L x 50 mm W)
CR1400 Weight	3.9 oz (110 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

CR1400 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	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% 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*	5 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.