Code Reader 1400™

Features & Benefits

- High speed, omnidirectional reading of 1D, 2D, Postal bar codes and OCR
- 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 Cortex™ software configuration utility
- Data editing and parsing with JavaScript
- Uses Code's rapid disconnect Affinity™ cables
- Low power consumption
- Disinfectant ready, IP54 housing

Overview

Imager 1D 2D PDF Postal OCR Optical Character USB Interface RS232 Interface Memory JavaScript

The Code Reader 1400™ (CR1400) is a compact, rugged, bar code reader that features a high performance scanning, 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. In addition, 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 by 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)
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)

Accessories

- 6ft. Straight USB Affinity Cable
- 8ft. Coiled RS232 Affinity Cable
- 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:** UPC/EAN/JAN, Code 39, Code 128, Interleaved 2 of 5, Codabar, GS1 DataBar (RSS), MSI Plessey, Code 11, Code 93, NEC 2 of 5, Matrix 2 of 5, Trioptic Code, Telepen, Hong Kong 2 of 5, Pharmacode **Stacked 1D**: PDF417, Micro PDF417, Codablock A & F, Composite Codes **2D:** Data Matrix, QR Code, Micro QR Code, Aztec Code, Maxicode **Proprietary 2D:** GoCode® (Additional License Required) **Postal:** USPS OneCode (4CB), POSTNET, PLANET, Japanese Post, Australian Post, Royal Mail, KIX Code **OCR:** OCR-A and OCR-B Fonts, Passports
Image Output Options:	Formats: Bitmap or JPEG
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	3.9" (100 mm)	5.0" (125 mm)
7.5 mil Code 39	2.2" (55 mm)	8.0" (205 mm)
13 mil UPC	2.0" (50 mm)	10.8" (275 mm)
4.2 mil Data Matrix	3.7" (95 mm)	4.7" (120 mm)
5 mil Data Matrix	3.7" (95 mm)	5.5" (140 mm)
6.3 mil Data Matrix	3.1" (80 mm)	6.3" (160 mm)
10 mil Data Matrix	1.6" (40 mm)	7.9" (200 mm)
20.8 mil Data Matrix	1.6" (40 mm)	12.2" (310 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%.

14870 S. Pony Express Rd. #200
Bluffdale, UT 84065
phone: (801) 495-2200 **fax:** (801) 495-0280
web: www.codecorp.com

Specifications subject to change without notice.