code

Code Reader 3500[™]





Features & Benefits

- Dual field optics, both high density and wide field in the same unit
- NEW reflection and glare reducing illumination
- Lightweight, ergonomic, fully-mobile modular design (hand held, handle, presentation stand)
- Rapid battery replacement, multiple battery formats and charging options
- User feedback with vibration and/or audible tones
- Unequaled performance on rounded, curved, and shiny surfaces
- Over 10 MB of batch data and JavaScript memory
- Reads all linear stacked and 2D matrix symbologies
- Withstands multiple drops to concrete from 6'
- High speed digital image capture
- Powerful data management capability via JavaScript
- Firmware is field upgradeable
- Multicolor LEDs with optimal focus and FOV indicator



Overview

The Code Reader 3500 (CR3500) extends mobile all-symbology bar code reading to include information display and keyboard entry, making it an ideal bar code reading solution that can be deployed in both low and high-volume use-case scenarios. The CR3500 decodes bar codes faster and offers features not found in other readers, including new automatic glare reducing illumination technology. The result is unequaled performance, even on difficult reading surfaces, including circuit boards, IV bags, patient-wristbands, driver licenses and other shiny or curved surfaces.

The CR3500 also offers the next generation in dual-field optics and is the only bar code reader that can read both wide linear and the smallest of 2D bar codes. With OCR enabled, the wide-field of the CR3500 can read the MRZ on passports. The optimal focus and field of view indicator of the CR3500 make bar code reading even easier than before. Built on an open JavaScript platform, the CR3500 can be easily customized to meet the needs of any end-user application. The CR3500 will excel in batch, cabled or Bluetooth wireless modes, and all scanned data configuration settings and JavaScript files are stored in non-volatile flash memory and are maintained in the event of a power loss.

Enabled for both in-stand and out-of-stand operation the CR3500 can be used as a wireless hand-held and fixed presentation reader. This lightweight, comfortable and easy to use bar code reader solution can be further accessorized to fit the needs of applications in the healthcare, public safety, manufacturing, aerospace, industrial automotive and defense environment. With its modular design and JavaScript platform, the CR3500 is future-proof and the most cost-effective reader available.

Code Reader 3500[™] Specifications

Physical Characteristics

Reader Dimensions:	1.6" H x 4.9" L x 1.8" W (4.2cm H x 12.4cm L x 4.6cm W)
Display:	128 x 128 Monochrome
Reader Weight:	4.6 oz (129 gm)
Battery Weight:	2 oz (56 gm)
Battery Blank Weight:	0.5 oz (13.6 gm)
Battery Handle Weight:	BH1 4.8 oz (136 gm) / BH2 6.4 oz (181 gm)

Performance Characteristics

Vide Field: 33° horizontal by 10.5° verticalFocal Point:High Density Field: approximately 85 mm Wide Field: approximately 85 mmSensor:CMOS 1.3 Megapixel (1024x1280) gray scaleOptical Resolution:High-Density Field: 1024 x 640 Wide Field: 1024 x 640Pitch:± 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% (PDF417) absolute dark/light reflectance differential, measured at 650 nmTarget Beam:LED multicolor, optimal focus and field of view indicatorAmbient Light Immunity:Sunlight: Up to 9,000ft-candles/96,890 luxShock:Reader*@ 5vdc (mA) - Typical = 165; Peak = 631; Idle = n/a; Sleep = 3; Bluetooth Radio @ 90m away (mA) Typical = 175 Peak = 615; Idle = 55; Sleep = 3 *Some USB ports may not support operating CR3500 with a battery blankOptional Cable Interfaces:US8 (Full Speed), RS232 & PS/2	Field of View:	High Density Field: 17° horizontal by 10.5° vertical
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Operational Modes: Bluetooth Wireless, Cabled or Batch Mode		,
Accessories		

User Environment

Operating Temperature:	0° to 50° C / 32° to 122° F
Storage Temperature:	-20° to 65° C /- 4° 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, Composite Codes
	Stacked 1D: PDF417, Micro PDF417, Codablock A & F
	2D: Data Matrix, QR Code, Micro QR Code, Aztec Code,
	Maxicode
	Proprietary 2D: GoCode (Requires Additional Licensing)
	Proprietary 2D: GoCode (Requires Additional Licensing) Postal: USPS OneCode (4CB), POSTNET, PLANET, Japanese
	Postal: USPS OneCode (4CB), POSTNET, PLANET, Japanese
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Field Selection: Field Resolution Selection:	Postal: USPS OneCode (4CB), POSTNET, PLANET, Japanese Post, Australian Post, Royal Mail, KIX Code OCR: OCR-A and OCR-B Fonts, Passport Formats: JPEG, PGM, Raw (Uncompressed) High-Density or Wide Field 1024 x 640 (Multiple Window Options)
Field Selection: Field Resolution Selection: Time Stamp:	Postal: USPS OneCode (4CB), POSTNET, PLANET, Japanese Post, Australian Post, Royal Mail, KIX Code OCR: OCR-A and OCR-B Fonts, Passport Formats: JPEG, PGM, Raw (Uncompressed) High-Density or Wide Field 1024 x 640 (Multiple Window Options) Real Time Clock

Working Ranges

CR3500 Performance		
Wide Field	Depth of Field	
6.3 mil Data Matrix	87 mm - 95 mm	
20.5 mil Data Matrix	32 mm - 153 mm	
5.8 mil PDF417	80 mm - 109 mm	
7.5 mil Code39	53 mm - 110 mm	
10.5 mil GS1 DataBar Stacked	37 mm - 132 mm	
12.5 mil Code128	30 mm - 137 mm	
High Density Field	Depth of Field	
6.3 mil Data Matrix	86 mm - 90 mm	
20.5 mil Data Matrix	65 mm - 112 mm	
7.5 mil Code39	81 mm - 86 mm	
10.5 mil GS1 DataBar Stacked	60 mm - 99 mm	
12.5 mil Code 128	82 mm - 103 mm	
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%.		

CO 14940 S Pony Express Rd. #500 Bluffdale, UT 84065 phone: (801) 495-2200 fax: (801) 495-2202 web: www.codecorp.com Specifications subject to change without notice.

Single-Bay or Two-Bay Battery Charger

- Cabled or Wireless Handles
- Battery Handle Charger or Universal Mountable Charger
- CodeXML Router Software
- CodeXML Bluetooth® Modems
- Software Development Kits .
- Reader Stand
- USB, PS/2, or RS232 Cables
- 1950 and 3900 mAh Li-Ion Batteries
- Battery Blank
- US, Europe/South America, or UK Power Supply

