

Code Reader 3.0[™]



Features & Benefits

- 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
- Reads all linear stacked and 2D matrix symbologies
- High speed digital image capture
- Powerful data management capability via JavaScript
- Customize design menus, input screens, and data collection essentials with ease
- Firmware is field upgradeable





Overview

The CR3 establishes a new benchmark for Portable Data Terminals and Hand Held Computers by combining the industry's best imaging technology with a graphic display and rugged keyboard to create the smallest and lightest full-featured bar code reading terminal on the market. The CR3 features a 1.3 MegaPixel dual-field image collection engine, a 400MHz Microprocessor, and 10MB of non-volatile memory. Available in two portable options: 1950 mAh Lithium Ion Battery and a Real Time Clock with its own battery backup system or 2.4 GHz radio system compatible with a wide range of Bluetooth[™] systems.

Using the same ergonomic platform as the highly successful Code Reader 2.0, the CR3 extends mobile all-symbology bar code reading to include information display and keyboard entry. The CR3 instantly reads large linear as well as high density matrix symbols and adapts to resolution, illumination, and image field for the fastest and widest range of symbology types, sizes, hard to read surfaces and ambient lighting.

Code eliminates the need for costly, high-overhead operating systems by providing an open platform JavaScript development environment within its CodeXML Applications Development Suite. With CodeXML and JavaScript, developers and Information Technology organizations can integrate data with any enterprise software. A unique feature of the Applications Development Suite is the ability to protect both development investment and data security by a customer-unique key encryption, which allows the developer to control the distribution and modification of applications to specific serial-numbered CR3 units.

Code Reader 3.0[™] Specifications

Physical Characteristics

Reader Dimensions:	1.6" H x 4.4" L x 1.8" W (4 cm H x 11.2 cm L x 4.6 cm W)
Reader Weight:	3.93 oz (112 g)
Battery Weight:	2.1 oz (60 g)
Battery Blank Weight:	0.5 oz (13.6 g)

Performance Characteristics

Field of View:	Near: 21.5° horizontal by 16.2° vertical
	Far: 22.9° horizontal by 11.6° vertical
Focal Point:	Near: approximately 4"; Far: approximately 9"
Sensor:	CMOS 1.3 Megapixel
	(1024x1280) 256 level gray scale
Optical Resolution:	Near Field: 1024 x 640
	Far Field: 1024 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% (1-D symbologies) or 35% (PDF417) absolute dark/light
	reflectance differential, measured at 650 nm
Target Beam:	Class 2M Visible Laser Diode at 630nm
Ambient Light Immunity:	Sunlight: Up to 9,000 ft-candles/96,890 lux
Shock:	Withstands multiple drops of 4 feet to concrete
Power Requirements:	Reader @ 4.2Vdc - Peak (w/backlight) = 400mA;
	Continuous Scan (w/backlight) = 350mA;
	Idle (no backlight) = 150mA; Sleep = 12mA; Power Off = 0.5uA
	Bluetooth Radio @ 10m away at 4.2V
	Continuous Scan (w/backlight) = 400mA; Peak (w/backlight) =
	525mA; Idle (no backlight) = 250mA
Optional Cable Interfaces:	USB (Full Speed V1.1), RS232 & PS/2
Memory:	10MB of Non-volatile Memory
Operating Modes:	Batch, Cabled or Wireless Modes

Accessories

- Single-Bay or Two-Bay Battery Charger
- Cabled or Wireless Handle
- 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

User Environment

Operating Temperature:	0° to 40° C / 32° to 104° F
Storage Temperature:	-20° to 60° C / -4° to 140° 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)
	Postal: USPS OneCode (4CB), POSTNET, PLANET, Japanese
	Post, Australian Post, Royal Mail, KIX Code
	OCR: OCR-A and OCR-B Fonts
Image Output Options:	Formats: JPEG, PGM, Raw (Uncompressed)
Field Selection:	Near or Far
Field Resolution Selection:	1024 x 640 (Multiple Window Options)
Real Time Clock:	7 year On-Board Battery Backup
Data Editing:	JavaScript (Additional License Required) / CodeXML Rules

Working Ranges

Code Reader CR 3.0 Performance	
Near Field	Depth of Field
6.3 mil Data Matrix	63 mm - 99 mm
20.8 mil Data Matrix	46 mm - 113 mm
5.8 mil PDF417	55 mm - 97 mm
7.5 mil Code39	78 mm - 108 mm
10.5 mil GS1 DataBar Stacked	38 mm - 108 mm
12.5 mil Code128	101 mm - 131 mm
Far Field	Depth of Field
6.3 mil Data Matrix	135 mm - 178 mm
6.3 mil Data Matrix 20.8 mil Data Matrix	135 mm - 178 mm 109 mm - 237 mm
6.3 mil Data Matrix 20.8 mil Data Matrix 7.5 mil Code39	135 mm - 178 mm 109 mm - 237 mm 114 mm - 245 mm
 6.3 mil Data Matrix 20.8 mil Data Matrix 7.5 mil Code39 10.5 mil GS1 DataBar Stacked 	135 mm - 178 mm 109 mm - 237 mm 114 mm - 245 mm 89 mm - 276 mm
 6.3 mil Data Matrix 20.8 mil Data Matrix 7.5 mil Code39 10.5 mil GS1 DataBar Stacked 12.5 mil Code128 	135 mm - 178 mm 109 mm - 237 mm 114 mm - 245 mm 89 mm - 276 mm 67 mm - 306 mm
 6.3 mil Data Matrix 20.8 mil Data Matrix 7.5 mil Code39 10.5 mil GS1 DataBar Stacked 12.5 mil Code128 All samples were high quality codentified to the second state of the s	135 mm - 178 mm 109 mm - 237 mm 114 mm - 245 mm 89 mm - 276 mm 67 mm - 306 mm odes and were read along a physical center



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Specifications subject to change without notice.



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