Code Reader 3.0

Portable Data Terminal

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.

featuring DOT™

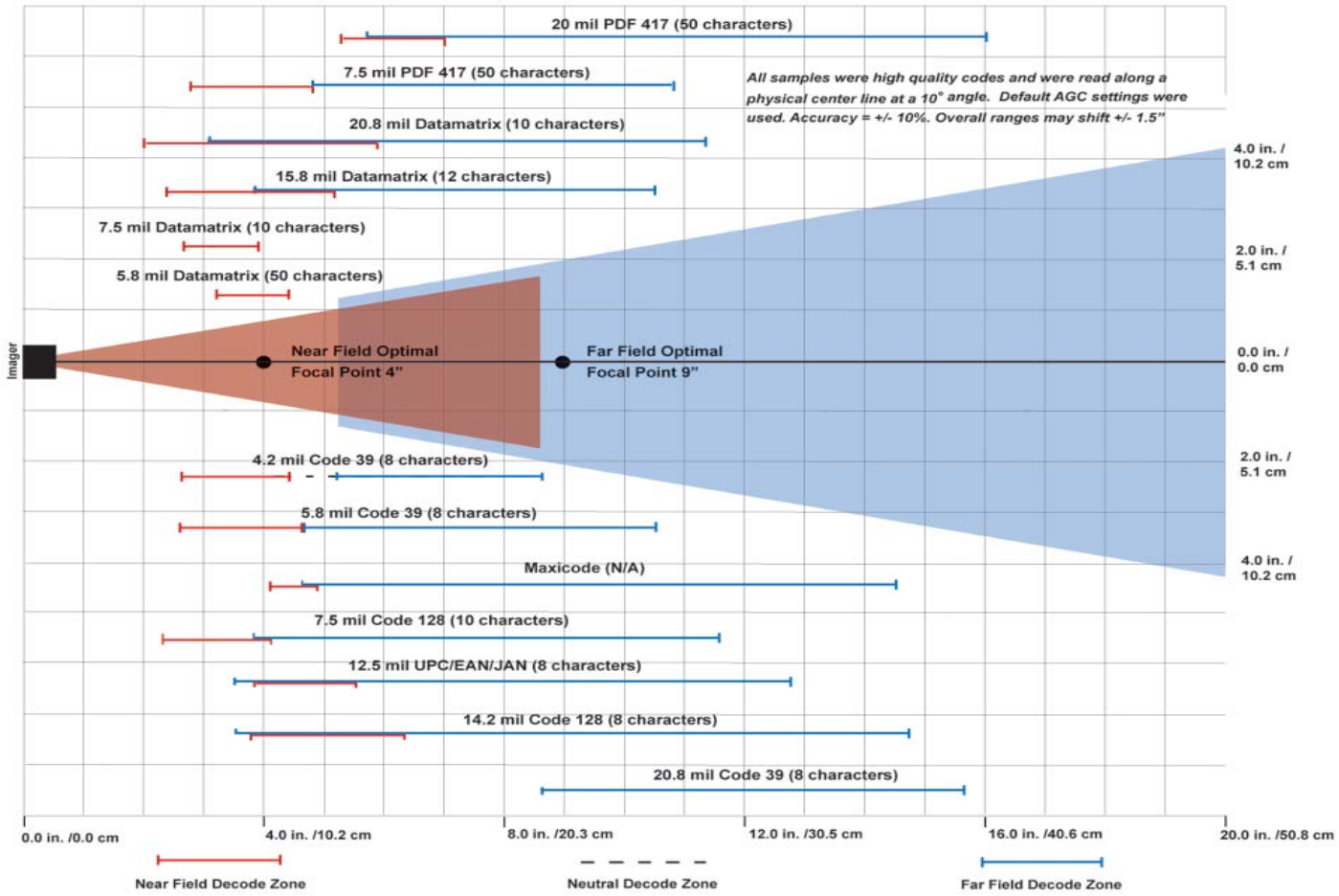
Using the same ergonomic platform as the highly successful Code Reader 2.0, the CR3 extends mobile all-symbology bar code reading to include information display and keyboard entry.

The CR3 instantly reads large linear as well as high density matrix symbols due to Code Corporation's unique Dynamic Optimization Technology (DOT), which continuously adapts the resolution, illumination, and image field for the fastest automatic symbology identification and decoding over the widest range of symbology types, sizes, recording surfaces and ambient lighting. With DOT, the CR3 achieves matrix symbol decoding at speeds that are similar to linear bar code decoding, while preserving battery energy. By monitoring each user's reading patterns, DOT reduces training time and eliminates the need for manual configuration optimization through parameter settings.

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 no longer need to worry about expensive porting of applications between Windows, Windows Pocket PC, Windows CE.Net, et.al.. 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 offers an easy to use tool for creating complete data collection applications for the CR3, without programming. You can design menus and input screens, control scanning and keypad entry, use look-up tables to validate input and send data to and from the CR3. All with a "point and click" interface on your windows PC.

The CR3 will instantly decode all bar and 2D codes

The CR3 features a 1.3 MegaPixel dual-field image collection engine, a 400MHz AMD Alchemy au1100 CPU, and 4MB of non-volatile memory. Portable operations are supported by a 1950 mAH Lithium Ion Battery and a Real Time Clock with its own battery backup system. For wireless communications, a 2.4 GHz radio system is available and compatible with a wide range of Bluetooth™ systems, as well as the CodeXML Modem, with a unique data and pairing encryption system for unsurpassed wireless data security.



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 without Battery:	3.93 oz (112 gm)
Battery Weight:	2.1 oz (60 gm)
Display:	128 x 128 Monochrome

User Environment

Field of View:	Near: 21.5º horizontal by 16.2º vertical Far: 22.9º horizontal by 11.6º vertical
Focal Point:	Near: approximately 4"; Far: approximately 9"
Sensor:	Progressive Scan CMOS 1.33 MP (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), RS232 & PS/2
Code Quality:	Code Readability Index
Memory:	4MB of Non-volatile Memory
Operating Modes:	Batch, Cabled or Wireless Modes

Performance Characteristics

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:	MaxiCode, PDF417 (including Macro support), Data Matrix, QR & Micro QR, MicroPDF417, GoCode*, Composite, Code 11, Aztec, Code 39, Code 128, Pharmacode, UPC/EAN/JAN, Int 2 of 5, Codabar, Codablock F, Code 93, RSS, Postnet, Planet, Japanese Post, Australian Post, Royal Mail, KIX, MSI Plessey, Trioptic, NEC 2 of 5, Matrix 2 of 5, Telepen, OCR (A & B*) and Hong Kong (2 of 5)
Image Output Options:	Formats: JPEG, Raw (Uncompressed)
Field Selection:	Near or Far
Resolution Selection:	1024 x 640 (Multiple Window Options)
Grayscale:	256 Level
Real Time Clock:	7 year On-Board Battery Backup
Data Editing:	JavaScript Capable*

* Requires Additional Licensing

Accessories

- **External Two-Bay Battery Charger**
- **CodeXML Bluetooth Modem**
- **CodeXML Router Software**
- **Software Development Kits**
- **Ruggedized Cabled or Battery Handle**
- **Reader Stand**
- **USB, PS/2 & RS232 Cables**
- **1950 mAH Li-Ion Battery**
- **US/Europe/SA/UK/Asia Power Supply**