

CR 1200-Based Embedded MegaPixel Reader System

The Code Reader CR1200-Based Embedded MegaPixel Reader System provides building blocks for the industry's next generation of bar code reading systems, with the power of MegaPixel digital imaging technology at a cost point formerly relegated to linear code reading devices.

Consisting of integrated imaging, processing, illumination, and interface sub-systems, the CR1200-Based Embedded MegaPixel Reader System provides original equipment manufacturers with a new level of design flexibility.



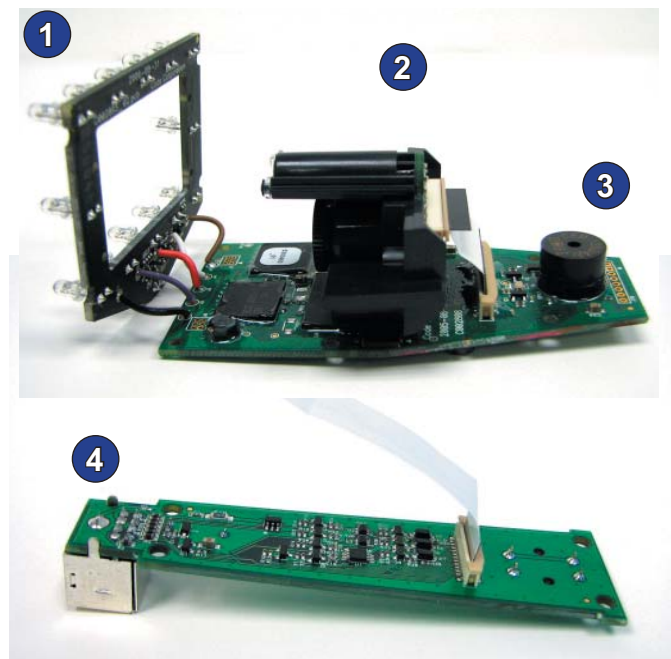
Applications logic can be developed quickly using JavaScript for operating system services, and for hardware interface controls for the implementation of customer-developed image processing and decoding algorithms. Alternatively, software integration is enhanced by the use of Linux Kernel 2.6.11.

When coupled with the CR1200's standard wide angle lens and illumination components, the product provides omnidirectional two-dimensional and one-dimensional decoding with a working range that facilitates integration into a wide variety of embedded devices.

The system may be ordered with the OmniPlanar decoding algorithms which provide efficient processing for all major linear and two-dimensional symbologies.

The Code Reader CR1200-Based Embedded MegaPixel Reader System consists of four major sub-systems:

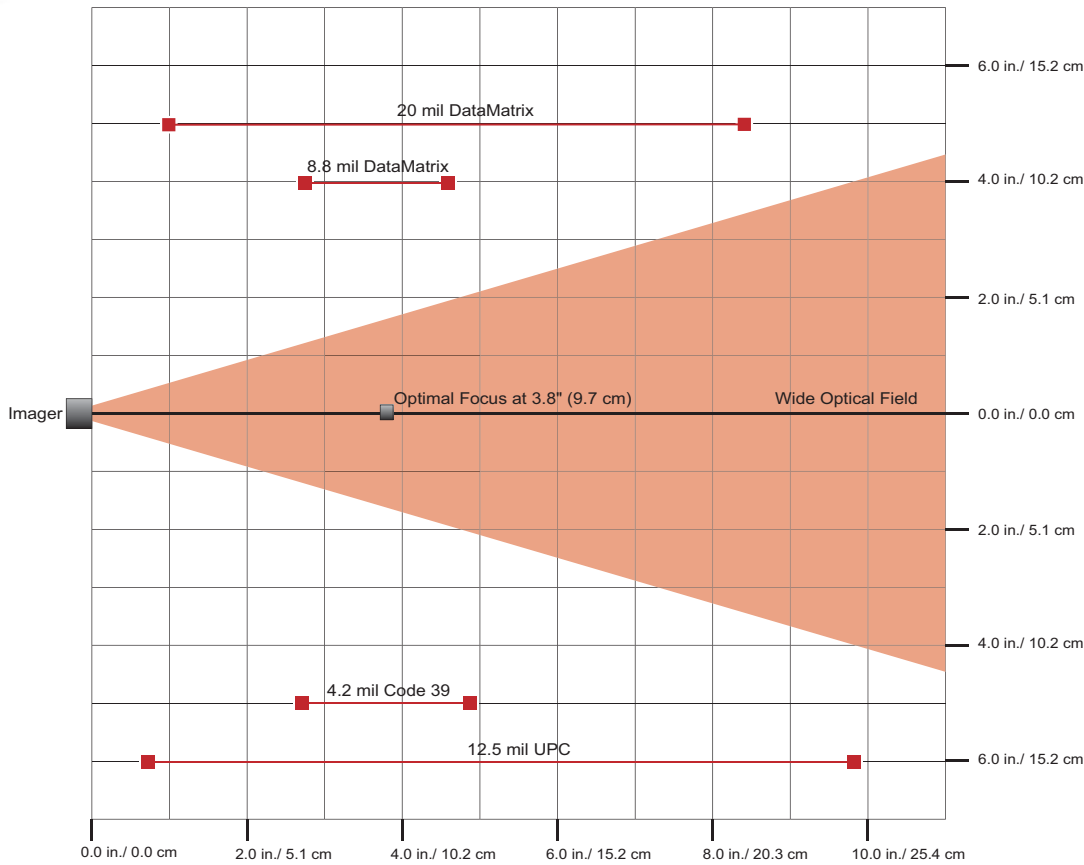
1. Illumination board containing the LED panel.
2. Camera lens and targeting LED sub-system.
3. Main processor board including the processor, RS232 communication interface, speaker and trigger pin.
4. Optional USB interface and vibrating motor.



System Features & Benefits

- Processor board provides all major functions, and TTL serial I/O
- Illumination and camera sub-systems provide flexibility for placement of illumination and working range
- Interface board provides USB level communications support
- Optional OmniPlanar decoding algorithms
- Optional JavaScript applications development system

Working Ranges



Note: Working ranges shown reflect Focal Point at 4" (104 mm); working ranges will change depending on placement of camera lens.



Physical Characteristics

Sub-System/Board Dimensions & Weights:

Illumination Board:	2" W x 1.9" L x .6" H (50 mm W x 47mm L x 15 mm H) .2 oz (5.71 gm)
Camera Lens & Targeting LEDs:	2" W x 2" L x 1" H (50mm W x 50mm L x 25mm H) .57 oz (16.15 gm)
Decoding and Communications:	1.6" W x 3.25" L x .25" H (41mm W x 83mm L x 6mm H) .59 oz (16.83 gm)
Optional USB Interface/Vibrating Motor:	1.1" W x 3.9" L x 1.8" H (27mm W x 98mm L x 30mm H) .61 oz (17.48 gm)

Warranty: 3 Years

Performance Characteristics

Field of View:	43.48° horizontal by 31.86° vertical
Focal Point:	Adjustable
Sensor:	Progressive Scan CMOS 1.33 MP Processor - RMI Alchemy Au1200™ 400MHz
Optical Resolution:	1280 x 1024 pixels
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:	Two targeting LEDs converge for optimal focus
Ambient Light Immunity:	Sunlight: Up to 9,000ft-candles/96,890 lux
Power Requirements:	Reader @ 5 vdc (mA): Idle = 250mA; Peak (Typical) = 330mA; Peak (Max) = 345mA
Communications Interfaces:	22 pin Ribbon: USB; RS232; (2) Trigger; (11) GPIOs Simple Interface: RS232, (1) Trigger Optional: USB, RS232, PS2 Cable, Vibration Motor (see pg 1 sub-system 4)
Code Quality:	Code Readability Index



* Requires Additional Licensing

User Environment

Decode Capability:

MaxiCode, PDF417 (including Macro support), Data Matrix, QR and Micro QR, MicroPDF417, GoCode*, Composite, Code 11, Aztec, Code 39, Code 128, Pharmacoode, 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)

Note: Can be purchased without decoder.

Image Output Options:

Formats: JPEG, Raw (Uncompressed)

Resolution Selection:

Up to 1280 x 1024 with Multiple Window Options

Grayscale:

256 Level

Data Editing:

JavaScript Capable*



Ordering Information

Embedded MegaPixel Reader System
Reader System Interface Board

SKU: OEM1200-F1
SKU: OEM12A-U0

Please contact Code to learn more about optional performance packages available in the CR1200-Based Embedded Reader System.

code

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Specifications subject to change without notice.