

## CR2

Wireless Handheld Imager



The Opticon CR2 can read and decode all existing barcode symbols. Whether you are reading smaller, high density two-dimensional codes, or larger, low density linear codes, the CR2 will outperform all other devices in its class.

#### Product Features

##### DOT™

The CR2's decode performance is continuously improved with Dynamic Optimization Technology (DOT™), a revolutionary technology which automatically improves decode performance by continuously processing resolution, illumination, and image field settings for the fastest possible symbol identification.

##### Real-time Performance Feedback

The CR2's user feedback systems include a choice of a beep, vibration and/or status LEDs along with a laser targeting technique for audible, tactile and visual performance feedback.

##### Wireless Capable

For wireless communications, a Bluetooth™ radio is available and compatible with a wide range of systems, or can be used in conjunction with a specially designed modem that provides data and pairing encryption for unsurpassed wireless data security.

##### Application Specific Accessories

The CR2 can be accompanied by a variety of accessories, making it is the only product available in: batch, cabled or wireless formats; hand-held, ruggedized cabled, or battery handle use-case scenarios; and, lanyard hook attachment or presentation stand form-factors..

Cabled

Mobile

Stationary

OEM

**OPTICON**  
always scanning for new ID's

# Specifications: CR2 Wireless Handheld Imager

## Electrical specifications

Voltage requirement:	5V
Reader current:	140 mA Typical; 310 mA MAX
Bluetooth current:	280 mA Typical; 96 mA Idle; 350 mA MAX
Power consumption:	1950 mAh Battery in reader with radio will support 11,000+ reads/ transmits per charge.

## Optical specifications

Photo sensor:	Progressive Scan CMOS 1.33 MP
Optical resolution:	1024 x 1280 (1024 x 640 Near/Far Field) 8-bit (256-level) grayscale
	JPEG, Raw (Uncompressed) output
Reading pitch angle:	± 60° (from front to back)
Reading skew angle:	± 60° from plane parallel to symbol (side-to-side)
Reading rotation angle:	± 180°
Field of view:	21.5° horizontal by 16.2° vertical (Near) 22.9° horizontal by 11.6° vertical (Far)
Focal plane:	approximately 4 in (Near) approximately 9 in (Far)
Target beam:	Class 2M Visible Laser Diode at 630nm
Print contrast res.:	25% (1D symbologies) or 35% (PDF417) absolute dark/light reflectance differential, measured at 650 nm

## Identification

Symbologies:	MaxiCode, PDF417 (including Macro support), Data Matrix, QR and Micro QR Code, MicroPDF417, GoCode*, Composite, Code 11, Aztec, Code 39, Code 128, Pharmacode, Codabar, Int 2 of 5, UPC/EAN/JAN, 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, OCR (A & B*), Telepen, and Hong Kong (2 of 5)
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Code quality:	Code Readability Index
Data editing:	JavaScript Capable*

\* Requires additional licensing

## Communication specifications

Interface:	USB (HID), RS232 & PS/2
Operational modes:	Wireless, Cabled or Batch Modes

## Environmental specifications

Operating temperature:	0° to 50° C / 32° to 122° F
Storage temperature:	-20° to 65° C / -4° to 150° F
Operating humidity:	5% to 95% non-condensing
Ambient light immunity:Sunlight:	Up to 9,000ft-candles/96,890 lux.
Shock:	Withstands multiple drops of 6 ft (1.8 m) to concrete

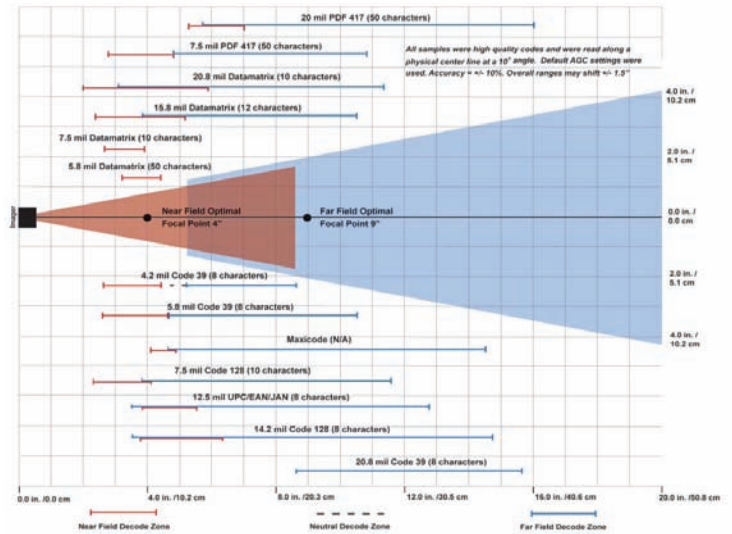
## Physical specifications

Dimensions (H x D x W):	33 x 109 x 46 mm / 1.3 x 4.3 x 1.8 in
Reader weight:	2.5 oz (71.5 g)
Battery weight:	2.1 oz (59.5 g)
Battery blank weight:	0.5 oz (13.6 g)
Memory capacity:	3.8 MB Non-Volatile Memory
Time stamp:	Interval Logging

Typical performance based on good quality symbols in normal room temperature and light conditions.

## Depth of field

The reading width is a calculated value and is for guidance only.  
Unit: mm (inches)



## Accessories (sold separately)

- External Two-Bay Battery Charger
- CodeXML Bluetooth Modem
- Ruggedized Cabled or Battery Handle
- Reader Stand
- USB, PS/2 & RS232 Cables
- 1950 mAh Li-Ion batteries
- US/Europe/SA/UK/Asia Power Supply
- Battery Handle Charger
- Elastomer Protective Boot

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- The Netherlands: Hoofddorp  
- France: ISSY Les Moulineaux CEDEX  
- Germany: Dietzenbach  
- Italy: Castel Maggiore (BO)  
- Spain: Valencia  
- Sweden: Järfälla  
- United Kingdom: Luton, Bedfordshire  
- U.S.A.: Orangeburg, NY - Seattle, WA  
- Japan: Warabi City

- Taiwan: Taipei  
- P.R.China: Shanghai  
- Australia: Kariang

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**OPTICON**  
always scanning for new ID's