

## CR3

Wireless Terminal



The Opticon CR3 extends mobile all-symbology barcode reading with a graphic display and rugged keyboard to create the smallest and lightest imaging terminal on the market.

#### Product Features

##### DOT™

The CR3'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 CR3'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.

##### Application Flexible

The CR3 builds upon the proven imaging technology of the highly successful CR2 by including an information display and keyboard entry expanding the range of applications that can be handled by a mobile all-symbology barcode reader.

##### 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.

Cabled

Mobile

Stationary

OEM

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

# Specifications: CR3 Wireless Terminal

## Electrical specifications

|                      |   |
|----------------------|---|
| Voltage requirement: | 4.2V                                    |
| Reader current:      | 350 mA Typical; 400 mA MAX              |
| Bluetooth current:   | 400 mA Typical; 250 mA Idle; 525 mA MAX |

## 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)<br>22.9° horizontal by 11.6° vertical (Far)                 |
| Focal plane:            | approximately 4 in (Near)<br>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) |
|--------------|---|

|               |                        |
|---------------|------------------------|
| Code quality: | Code Readability Index |
| Data editing: | JavaScript Capable*    |

\* Requires additional licensing

## Communication specifications

|                    |                                 |
|--------------------|---------------------------------|
| Interface:         | USB (HID)                       |
| Operational modes: | Wireless, Cabled or Batch Modes |

## Environmental specifications

|                                  |   |
|----------------------------------|---|
| Operating temperature:           | 0° to 40° C / 32° to 104° F                           |
| Storage temperature:             | -20° to 60° C / -4° to 140° 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 4 ft (1.3 m) to concrete |

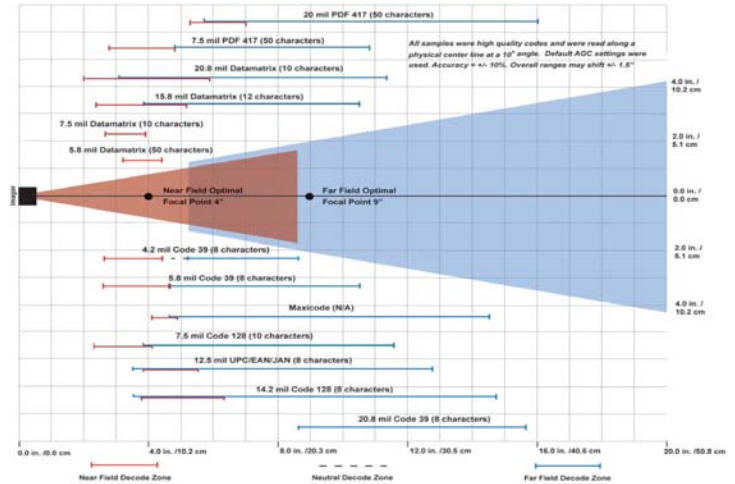
## Physical specifications

|                         |                                       |
|-------------------------|---------------------------------------|
| Dimensions (H x D x W): | 40 x 112 x 46 mm / 1.6 x 4.4 x 1.8 in |
| Reader weight:          | 3.9 oz (112 g)                        |
| Battery weight:         | 2.1 oz (59.5 g)                       |
| Battery blank weight:   | 0.5 oz (13.6 g)                       |
| Display:                | 128 x 128 Monochrome                  |
| Memory capacity:        | 4 MB Non-Volatile Memory              |
| Real time clock:        | 7 year On-Board Battery Backup        |

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
- USB Cables
- 1950 mAh Li-Ion batteries
- US/Europe/SA/UK/Asia Power Supply