



## 2D Engine Product Spec Sheet (3100)

### Spec Chart

#### Physical Characteristics

|                     |   |
|---------------------|---|
| Dimensions:         | Engine: 31.7mm L x 12.2mm H x 12mm D<br>Decode board: 38mm L x 19mm W x 7.5mm D |
| Weight (w/o cable): | 10g   |
| Power:              | 5 VDC $\pm$ 10% @ 260 mA  |

#### Performance Characteristics

|                 |  |
|-----------------|--|
| Light Source:   | Aimer: 617 nm LED<br>Illumination: 625 nm LEDs |
| Field of View:  | 39° (H) x 25° (V)                              |
| Roll:           | 0 - 360°                                       |
| Pitch:          | $\pm$ 65° or greater                           |
| Yaw:            | $\pm$ 60° or greater                           |
| Print Contrast: | 25% minimum reflective difference              |

#### Symbology Decode Capability

|                       |   |
|-----------------------|---|
| 1D:                   | UPC/EAN, UPC/EAN with supplementals, ISSN, BooklandEAN, UCC Coupon Extended Code, Code128, GS1-128, ISBT 128, Code 39 Full, ASCII, Code93, Code11, Matrix 2 of 5, Code 32, Interleaved 2 of 5, Code 39, Trioptic Code 39, Discrete 2 of 5, Codabar, MSI, Chinese 2 of 5, GS1 DataBar, ISBT Concat Korean 3 of 5, Variants |
| 2D:                   | PDF417, MicroPDF417, Composite Codes, TLC-39, Data Matrix, Maxicode, QR Code, MicroQR, Aztec  |
| Motion Tolerances:    | Up to 25 in. / 63.5 cm per second   |
| Interfaces Supported: | <u>USB:</u> HID Keyboard (default mode),<br>COM Port Emulation<br><u>RS232:</u> Standard  |
| Minimum Resolution:   | -SR: Code 39 4.8mil, UPC 60% 5 mil,<br>PDF417 5 mil, Datamatrix 7.5 mil<br>-HD: Code 39 3 mil, UPC 60% 5 mil,<br>PDF417 4 mil, Datamatrix 4.8 mil   |

Power Supplies: Power supplies are available for applications that do not supply power over the host cable.

#### REGULATORY

|                    |  |
|--------------------|--|
| Electrical Safety: | UL60950-1 2nd ed, CSA C22.2 No. 60950-1 2nd ed, EN60950-1/IEC60950-1 2nd ed. |
| LED Safety:        | IEC/EN60825-1:2001, IEC/EN62471:2006   |
| EMI/RFI:           | FCC Part 15 Class B, ICES-003 Class B, EN55022 Class B, EN55024              |
| Environmental:     | Compliant with RoHS directive 2002/95/EEC                                    |

#### WARRANTY

Subject to the terms of OCOM 's hardware warranty statement, the 3100 is warranted against defects in workmanship and materials for a period of 1 years from the date of shipment. For the complete OCOM hardware product. warranty statement, go to: <http://www.ocominc.com>

#### User Environment

|                 |  |
|-----------------|--|
| Operating Temp: | 0° C to 55° C                                    |
| Storage Temp:   | -40° C to 60° C                                  |
| Humidity:       | 5% to 95%, non-condensing                        |
| Drop Spec:      | Withstands multiple 6 ft. drops to concrete      |
| Ambient Light:  | Immune to normal indoor lighting up to 1600 Lux. |
| Immunity:       | Immune to sunlight up to 86,000 Lux.             |

#### Accessories

Interface board and cable

## DECODE RANGES

| Typical Performance*      |                | Typical Working Ranges |       |                   |       |
|---------------------------|----------------|------------------------|-------|-------------------|-------|
|                           |                | HD Focus Range         |       | SR Focus Range    |       |
| Bar Code Type             | Symbol Density | Near                   | Far   | Near              | Far   |
| Code 39                   | 5.0 mil        | 0mm                    | 90mm  | 60mm              | 130mm |
| 100% UPCA                 | 13.0 mil       | 5mm                    | 180mm | 30mm              | 300mm |
| Code 39                   | 20.0 mil       | 5mm                    | 250mm | 35mm              | 350mm |
| PDF 417                   | 6.8 mil        | 0mm                    | 85mm  | 40mm              | 150mm |
| Data Matrix               | 10.0 mil       | 0mm                    | 70mm  | 50mm              | 130mm |
| QR Code                   | 20.0 mil       | 0mm                    | 180mm | 25mm              | 250mm |
| Resolution 1D Code 39     |                | 3 mil (0.076mm)        |       | 5 mil (0.127mm)   |       |
| Resolution 2D Data Matrix |                | 5 mil (0.127mm)        |       | 6.7 mil (0.170mm) |       |

\*Performance may be impacted by bar code quality and environmental conditions.



