

## 2D Baecode Scan Engine's Specifications :

Model Name

**AI3255R**



| Description                        | 2D Barcode Scan Engine                                                                                                                                                                                                                                                                             |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Performance Characteristics</b> |                                                                                                                                                                                                                                                                                                    |
| • Illumination Element             | Red Light                                                                                                                                                                                                                                                                                          |
| • Aiming LED                       | Red Light                                                                                                                                                                                                                                                                                          |
| • Image Sensor                     | CMOS (640×480 pixels)                                                                                                                                                                                                                                                                              |
| • Depth of Field                   | 13 mil EAN 13 : 360 mm                                                                                                                                                                                                                                                                             |
| • Best Resolution                  | 1D (4mil) : Code 39<br>2D (5mil) : PDF417                                                                                                                                                                                                                                                          |
| • Print Contrast                   | ≥ 25 %                                                                                                                                                                                                                                                                                             |
| • Scan Angle                       | Tilt: 360° / Pitch ±50° / Skew ±50°                                                                                                                                                                                                                                                                |
| • Indicators                       | LED & beeper                                                                                                                                                                                                                                                                                       |
| • Interface                        | USB HID, Virtual-COM , UART                                                                                                                                                                                                                                                                        |
| • Symbolologies                    | 1D: Code 128, EAN-13, EAN-8, Code 39, Code 32, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, ISBN/ISSN, Code 93, Code 11<br>GS1-128, GS1 Databar, GS1 Databar Limited, GS1 Databar Expanded<br>2D: PDF417, QR Code, Micro PDF417, Micro QR Code, Data Matrix, Aztec |

### Electrical Characteristics

|                       |              |
|-----------------------|--------------|
| • Input voltage       | 3.3 VDC ± 5% |
| • Current - operating | < 220 mA     |

### Physical Characteristics

|                         |                      |
|-------------------------|----------------------|
| • Dimension (W x D x H) | 21.8 x 11.2 x 7.1 mm |
| • Weight                | 3.5 g                |

### User Environment

|                         |                                                |
|-------------------------|------------------------------------------------|
| • Temperature-operation | -10°C to 55°C                                  |
| • Temperature-storage   | -20°C to 65°C                                  |
| • Humidity              | 5% to 95% relative humidity, non-condensing    |
| • Ambient Light         | 0-100,000 lux (total darkness-bright sunlight) |

**Decode Zone** (DOF is measured at the office under 600 lux and by Standard barcode. There are +/- 10 mm Torrence. DOF may be also impacted by barcode quality and environmental conditions.)

|                     |             |
|---------------------|-------------|
| • 4mil Code39       | 60 ~ 120 mm |
| • 5mil Code39       | 50 ~ 165 mm |
| • 13mil EAN13       | 50 ~ 360 mm |
| • 6.67 mil PDF417   | 60 ~ 160 mm |
| • 10 mil DataMatrix | 45 ~ 180 mm |
| • 20 mil QR Code    | 45 ~ 280 mm |

*Product specification is subject to change without notice.*

**RIOTEC CO., LTD.**

**8F., 196-2, DaTong Rd., Sec. 3, Xizhi Dist., New Taipei City 221, Taiwan**

TEL : +886-2-8647-1828

FAX : +886-2-8647-1800

E-mail : sales@riotec.com.tw

Web : www.riotec.com.tw