## ZEBRA

## FEATURES

## Large working range

Meets the needs of a wide range of applications for increased productivity

## Small and light scan

 engineEasily optimize product designs

## 100 scans per second

Optimized scanning speed delivers aggressive performance and accurate capture of all bar codes - even damaged and poor quality

## Low power consumption

Increases battery life in portable terminals

## Bright scan line and aim mode

Provides intuitive ease-of-use across the entire working range

## Programmable scan angle <br> Provides flexibility to easily and cost-effectively customize products for specific applications

## RoHS compliant

Meets RoHS requirements

## Die cast zinc chassis and single board construction <br> Shock rating of 2,000G for outstanding durability

## Liquid Polymer scan element <br> Eliminates friction and wear for superior durability and reliability

## Flash upgradeable

Easy to upgrade software

| Dimensions | $\begin{aligned} & 0.46 \mathrm{in} . \mathrm{H} \times .85 \mathrm{in} . \mathrm{W} \times .61 \mathrm{in} . \mathrm{D} \\ & 11.75 \mathrm{~mm} \mathrm{H} \mathrm{x} 21.6 \mathrm{~mm} \text { W x } 15.5 \mathrm{~mm} \\ & \text { D } \end{aligned}$ | Light Source | Visible Laser Diode 650 nm |
| :---: | :---: | :---: | :---: |
|  |  | Scan Rate | $104( \pm) 12 \mathrm{scans} / \mathrm{sec}($ bi-directional) |
| Weight | 0.27 oz./7.5 g | Scan Angle | $47^{\circ} \pm 3^{\circ}($ typical $) / 35^{\circ} \pm 3^{\circ}$ (narrow) |
| Configuration | Uncoded | Scan Patterns | Linear |
| Interface | DPB and $\mathrm{I}^{2} \mathrm{C}$ control on a 10 pin ZIF connector | Minimum Print Contrast | Minimum 20\% absolute dark/light reflectance measured at 650 nm |
| USER ENVIRONMENT |  | Ranges - 1D codes | 4 mil: Code 39; 2.5:1-80\% MRD: $1-5.5$ (in) / 2.5-13.97 (cm) |
| Ambient Light | Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. <br> Fluorescent, Incandescent, Mercury <br> Vapor, Sodium <br> Vapor, LED $^{1}$ : 450 Ft Candles (4,844 <br> Lux) Sunlight: <br> 8000 Ft Candles (86,111 Lux) |  | 5 mil: Code 39; 2.5:1-80\% <br> MRD:1.25-8 (in) / 3.18-20.32 (cm) <br> 7.5 mil: Code 39; 2.5:1-80\% <br> MRD:1.5-13 (in) / 3.81-33.02 (cm) <br> 10 mil: Code 39; 2.5:1-90\% <br> MRD:1.5-18 (in) / 3.81-45.72 (cm) <br> 13 mil: 100\% UPC - 90\% <br> MRD: 1.5-24 (in) / 3.81-60.96 (cm) <br> 15 mil: Code 39; 2.5:1-80\% |
| Operating Temp. | $-4^{\circ}$ to $140^{\circ} \mathrm{F}\left(-20^{\circ}\right.$ to $\left.60^{\circ} \mathrm{C}\right)$ |  | 20 mil: Code 39; 2.2:1-80\% |
| Storage Temp. | $-40^{\circ}$ to $158^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.70^{\circ} \mathrm{C}\right)$ |  | MRD: 1.75-33 (in) / 4.45-83.82 (cm |
| Humidity | 5\% to $95 \%$, non-condensing |  | 40 mil: Code 39; 2.2:1-80\% |
| Power | Input Voltage: 3.3 VDC $\pm 10 \%$ <br> Scan Current: 76 mA typical <br> Standby Current: 12 A max. |  | $\begin{aligned} & \text { MRD: *-36 (in) / x-91.44 (cm) } \\ & \text { dependent on } \\ & \text { width of barcode) } \\ & \mathbf{5 5} \text { mil: Code 39; 2.2:1-80\% } \end{aligned}$ |
| Shock Rating | 2,000 G |  | $\begin{aligned} & \text { MRD: * }-45(\mathrm{in}) / \mathrm{x}-114.30(\mathrm{~cm})( \\ & \text { dependent on } \\ & \text { width of barcode) } \end{aligned}$ |
| REGULATORY |  |  |  |
| Laser Classification | Intended for use in CDRH Class II and IEC <br> Class 2 devices - Optional Class I model | ( $*=$ dependent on width of bar code) <br> 1 - LED lighting with high AC ripple content can impact scanning performance |  |
| Electrical Safety | UL 60950, EN/IEC 60950 |  |  |
| EMI/RFI | FCC Part 15 Class B, EN 55024/ CISPR 22, <br> AS 3548, VCCI |  |  |
| Environmental | RoHS Compliant |  |  |

SE955 SCAN ENGINE SPECIFICATIONS CHART (DECODED)

| PHYSICAL CHARACTERISTICS |  | PERFORMANCE CHARACTERISTICS |  |
| :---: | :---: | :---: | :---: |
| Dimensions | $\begin{aligned} & \text { SE-955-I100R (3.3V): } \\ & .46 \mathrm{H} \times .85 \mathrm{~W} \times .61 \mathrm{D}(\mathrm{in}) / 11.8 \mathrm{H} \mathrm{x} \\ & 21.6 \mathrm{~W} \times 15.5 \mathrm{D}(\mathrm{~mm}) \\ & \text { SE-955-I105R (5V): } \\ & .48 \mathrm{H} \times .85 \mathrm{~W} \times .89 \mathrm{D}(\mathrm{in}) / 12.1 \mathrm{H} x \\ & 21.6 \mathrm{~W} \times 22.6 \mathrm{D}(\mathrm{~mm}) \end{aligned}$ | Light Source | Visible Laser Diode 650 nm |
|  |  | Scan Rate | $104( \pm) 12 \mathrm{scans} / \mathrm{sec}($ bi-directional) |
|  |  | Scan Angle | $47^{\circ} \pm 3^{\circ}$ (typical) $/ 35^{\circ} \pm 3^{\circ}$ (narrow) |
|  |  | Scan Patterns | Linear |
| Weight | . 28 oz./ 8 g | Minimum Print Contrast | Minimum 20\% absolute dark/light |
| Configuration | Decoded |  |  |
| Interface | SSI Control over TTL Serial on a 12 | Symbologies | All major 1D bar codes |


|  | pin ZIF connector | Supported |  |
| :---: | :---: | :---: | :---: |
| USER ENVIRONMENT |  | Programmable <br> Parameters | Laser On Time, Aim Duration, Power Mode, Trigger |
| Ambient Lighting <br> Tolerance | Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. <br> Fluorescent, Incandescent, Mercury <br> Vapor, Sodium <br> Vapor, LED ${ }^{1}$ <br> : 450 Ft Candles (4,844 Lux) Sunlight: <br> 8000 Ft Candles (86,111 Lux |  | Symbology Types/ <br> Lengths, Data Formatting, Serial <br> Parameters, Beeper <br> Tone, Scan Angle |
|  |  | Ranges - 1D codes | $\begin{aligned} & 4 \text { mil: Code } 39 ; 2.5: 1-80 \% \\ & \text { MRD: } 1-5.5(\mathrm{in}) / 2.5-13.97(\mathrm{~cm}) \\ & \text { 5 mil: Code } 39 ; 2.5: 1-80 \% \\ & \text { MRD:1.25-8 (in) / 3.18-20.32 (cm) } \end{aligned}$ |
| Operating <br> Temperature | $-4^{\circ}$ to $140^{\circ} \mathrm{F}\left(-20^{\circ}\right.$ to $\left.60^{\circ} \mathrm{C}\right)$ |  | MRD:1.5-13 (in) / 3.81-33.02 (cm) 10 mil : Code 39; 2.5:1-90\% |
| Storage Temperature | $-40^{\circ}$ to $158^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.70^{\circ} \mathrm{C}\right)$ |  | MRD:1.5-18 (in) / 3.81-45.72 (cm) <br> 13 mil: 100\% UPC - 90\% |
| Humidity | $5 \%$ to $95 \%$, non-condensing |  | MRD: 1.5-24 (in) / 3.81-60.96 (cm) |
| Power | Input Voltage: <br> SE-955-I100R (3.3V): $3.3 \pm 10 \%$ <br> SE-955-I105R (5V): 5V $\pm 10 \%$ <br> Scan Current: <br> SE-955-I100R (3.3V): 86mA <br> SE-955-I105R (5V): 90mA <br> Standby Current: <br> SE-955-I100R (3.3V): 12A <br> SE-955-I105R (5V): .35A |  | ```15 mil: Code 39; 2.5:1-80\% MRD:1.5-28 (in) / 3.81-71.12 (cm) 20 mil: Code 39; 2.2:1-80\% MRD: 1.75-33 (in) / 4.45-83.82 (cm ) 40 mil: Code 39; 2.2:1-80\% MRD: *-36 (in) / x - 91.44 (cm) ( dependent on width of barcode) 55 mil: Code 39; 2.2:1-80\%``` |
| Shock Rating | 2,000 G |  | $\begin{aligned} & \text { MRD: } *-45(\mathrm{in}) / \mathrm{x}-114.30(\mathrm{~cm})( \\ & \text { dependent on } \\ & \text { width of barcode) } \end{aligned}$ |
| REGULATORY |  |  |  |
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| Environmental | RoHS compliant |  |  |



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