



IS4110 Non-Decode model  
shown actual size



**IS4100 ScanQuest®** engines are miniature laser single-line scanners with a patented automatic trigger. Designed for integration into OEM equipment, ScanQuest engines are compact, lightweight and have low power requirements.

Sunrise 2005 Compliant

# IS4100 ScanQuest®

## Features

- **Patented automatic trigger or RS232 controlled activation**
- **Long-range/short-range activation modes**
- **Autodiscriminates all standard bar codes**
- **Bar code or serial programming**
- **Low power consumption**

## Metrologic's IS4100 ScanQuest

engines are miniature laser scanners with maximum scanning capabilities. With a patented automatic trigger, ScanQuest provides accurate scanning quickly and reliably.

Designed for integration into OEM equipment, ScanQuest engines are compact, lightweight and have low power requirements. Any equipment designed to incorporate bar code identification can utilize the ScanQuest engine - the applications are endless.

ScanQuest engines are offered in two models: the IS4120 and the IS4110. The IS4120 has built-in decoding for versatile OEM operations, while

the IS4110 non-decode version interfaces directly with decode-equipped OEM devices.

Note: Approval and certification from agencies such as the FDA (Food and Drug Administration) must be obtained by the manufacturer of the end equipment. The specifications required for agency approval are not obtainable until the ScanQuest engine is used in its final configuration. Therefore, it becomes the responsibility of the manufacturer who incorporates the scan engines into their product to comply with all federal laser safety regulations. The manufacturer must submit a Laser Product Report for the FDA in the U.S. or similar forms as required by other countries. Metrologic can assist its customers in complying with the necessary procedures.



# IS4100 ScanQuest®

## OPERATIONAL

|                        |   |
|------------------------|---|
| Light Source           | Visible Laser Diode 675 nm ± 5 nm   |
| Laser Power            | 0.800 mW (peak)   |
| Depth of Scan Field    | 12.7 mm - 203 mm (0.5" - 8") for 0.33 mm (13 mil) bar codes   |
| Width of Scan Field    | 28.6 mm (1.125") @ face; 101.6 mm (4") @ 76.2 mm (3")   |
| Scan Speed             | 52 scan lines per second  |
| Scan Pattern           | Single scan line  |
| Minimum Bar Width      | 0.173 mm (6.8 mil)  |
| Decode Capability      | IS4120: Autodiscriminates all standard bar codes<br>IS4110: None  |
| System Interfaces      | IS4120: RS232, Light Pen Emulation, PC Keyboard Wedge, Stand Alone Keyboard<br>IS4110: Decode dependent |
| Print Contrast         | 35% minimum reflectance difference  |
| Number Characters Read | IS4120: Up to 80 data characters read<br>IS4110: Decode limited   |
| Roll, Pitch, Yaw       | 42°, 68°, 52°   |
| Beeper Operation       | IS4120: Power on; good read signals<br>IS4110: Decode limited   |
| Indicators (LED)       | IS4120: Laser on; good read signals<br>IS4110: Decode limited   |

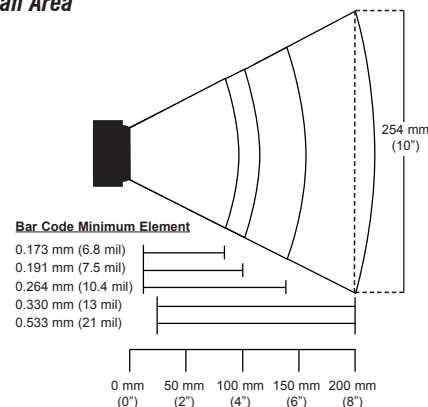
## MECHANICAL

|             |  |
|-------------|--|
| Dimensions  | IS4120: 45.7 mm x 40.6 mm x 18.5 mm (1.8" x 1.6" x 0.73")<br>IS4110: 45.7 mm x 40.6 mm x 14 mm (1.8" x 1.6" x 0.55") |
| Weight      | IS4120: 55 g (1.94 oz)<br>IS4110: 45 g (1.77 oz)   |
| Termination | IS4120: 12 pin ZIF connector<br>IS4110: 10 pin ZIF connector   |

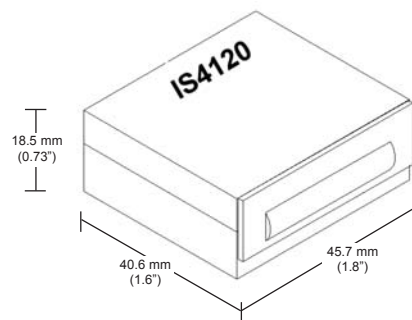
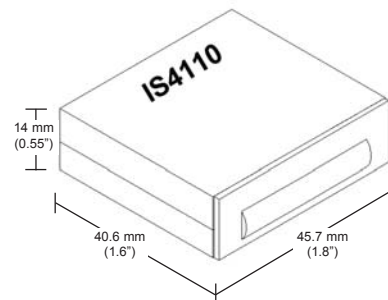
## ELECTRICAL

|                       |  |
|-----------------------|--|
| Input Voltage         | 5 VDC ± 0.25 V   |
| Power                 | IS4120: 0.625 W<br>IS4110: 0.375 W                               |
| Operating Current     | IS4120: 125 mA typical @ 5 VDC<br>IS4110: 75 mA typical @ 5 VDC  |
| Standby Current       | IS4120: 65 mA typical @ 5 VDC<br>IS4110: 1.7 mA typical @ 5 VDC  |
| Sleep Mode Current    | IS4120: 9 mA typical @ 5 VDC<br>IS4110: Not available            |
| Laser Class           | Designed to be used as a CDRH:Class II and IEC Class I component |
| EMC                   | FCC Class A, CISPR Class A                                       |
| Operating Temperature | -20°C to 50°C (-4°F to 122°F)                                    |
| Storage Temperature   | -40°C to 70°C (-40°F to 158°F)                                   |
| Humidity              | 5% to 95% relative humidity, non-condensing                      |
| Light Levels          | Up to 4842 Lux (450 footcandles)                                 |
| Contaminants          | Environment dependent  |
| Ventilation           | Environment dependent  |
| Certification         | UL recognized component  |

## Scan Area



## Dimensions



ISO 9001:2000



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DS4100

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