



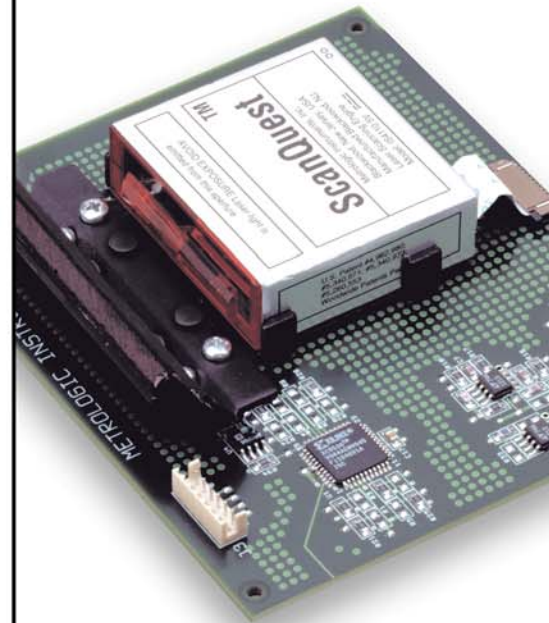
## IS4125 SERIES **ScanQuest®**

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.

Metrologic's ScanQuest offers bar code scanning that's easy to configure and integrate. This powerful scan engine provides flexibility to users through a host of features that can enable a variety of applications. The ScanQuest has built-in decoding for versatile OEM operations which can be easily updated in the field to keep the scanner current.

Besides the powerful software, the engine is mechanically robust as well. The unit is entirely enclosed to prevent contamination from the environment. The modular design can also be incorporated into a number of different mounting

configurations. With all of these options, the ScanQuest makes the addition of scanning to any application a snap.



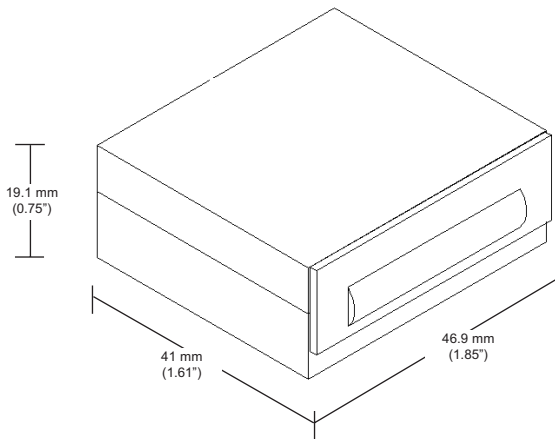
[www.metrologic.com](http://www.metrologic.com)

### FEATURES

- Compact
- Automatic scanning operation
- Long range/short range activation
- Metal housing
- Autodiscriminates

### BENEFITS

- Designed to fit efficiently into OEM devices
- Scans bar codes as they are presented; triggerless
- Activation is programmed to fit your application
- No exposed electronic components to prevent damage
- Has the ability to scan all standard 1D bar codes



**OPERATIONAL**

|                        |   |
|------------------------|---|
| Light Source           | Visible Light Diode 650 nm  |
| Laser Power            | 0.800 mW (peak)   |
| Decode Capability      | Autodiscriminates all standard bar codes, including RSS               |
| System Interfaces      | RS232, Light Pen Emulation, Keyboard Wedge, Stand Alone Keyboard, USB |
| Number Characters Read | Up to 80 data characters read   |
| Beeper Operation       | Power on; good read signals   |
| Indicators (LED)       | Laser on; good read signals   |
| Serial Programming     | Compatible with IS4120  |

**MECHANICAL**

|             |   |
|-------------|---|
| Dimensions  | 46.9 mm x 41 mm x 19.1 mm (1.85" x 1.61" x 0.75") |
| Weight      | 55 g (1.94 oz)                                    |
| Termination | 12 pin ZIF connector                              |

**ELECTRICAL**

|                    |   |
|--------------------|---|
| Input Voltage      | 5 VDC ± 0.25 V  |
| Power              | 0.625 W   |
| Operating Current  | 125 mA typical @ 5 VDC  |
| Standby Current    | 65 mA typical @ 5 VDC   |
| Sleep Mode Current | 9 mA typical @ 5 VDC  |
| Laser Class        | Designed to be used as a CDRH:Class II and IEC Class II component |
| EMC                | FCC Class A, CISPR Class A  |

**ENVIRONMENTAL**

|                       |   |
|-----------------------|---|
| 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                     |

**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.

**SCAN PERFORMANCE**

|                     |   |
|---------------------|---|
| 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)  |
| Print Contrast      | 35% minimum reflectance difference                          |
| Roll, Pitch, Yaw    | 42°, 68°, 52°   |

**Scan Area**

