



actual size

microQuest™ is a super small, single-line, undecoded laser scan engine. Designed for integration into OEM equipment, microQuest engines are compact, lightweight and have low power requirements.

IS4610 **microQuest™**

Features

- **100 scans per second for fast decoding of 1-D and 2-D symbologies**
- **Designed to withstand 2000Gs of shock**
- **Narrow exit angle provides precision beam positioning**
- **Supports both 3.3V and 5.0V input voltages**
- **Die cast chassis with built-in threaded mounting and locating holes**
- **Weighing less than 7 grams allows for seamless integration into portable devices**

Metrologic's microQuest is a super small, single-line, undecoded laser scan engine. The microQuest scanning components are mounted in a durable die-cast chassis that can withstand the shock commonly associated with hand-held devices such as PDTs, bar code scanners and medical devices. The microQuest's sturdy, modular construction allows the device to be safely mounted into a variety of equipment such as lottery machines, pick and place devices and robotic arms.

Supporting both 3.3V or 5.0V input and with very low power consumption, the IS4610 can operate

minimally using 2 'AAA' batteries. Depending on the capability of your decoder, the IS4610 can scan all standard 1-D bar code symbologies, and with more scans per second than other similar engines, the microQuest can scan stacked symbologies such as RSS-14 and PDF417.

The size and mounting capabilities of the IS4610 are equivalent to other commonly used scanning engines providing an alternative to equivalent, yet more expensive devices.



IS4610 microQuest™

OPERATIONAL

Light Source	Visible Laser Diode 650 nm ± 5 nm
Laser Power	0.800 mW (Peak, without window)
Depth of Scan Field	38.0 mm - 254 mm (1.5" - 10") for 0.33 mm (13 mil) bar codes
Width of Scan Field	57.0 mm (2.3") @ 25.4 mm (1.0"); 197 mm (7.8") @ 100 mm (4.0")
Scan Speed	100 scan lines per second
Scan Pattern	Single scan line
Minimum Bar Width	0.127 mm (5.0 mil)
Decode Capability	Undecoded
System Interfaces	Decode dependent
Print Contrast	35% minimum reflectance difference
Number Characters Read	Decode dependent
Roll, Pitch, Yaw	42°, 68°, 52°
Beeper Operation	Decode dependent
Indicators (LED)	Decode dependent

MECHANICAL

Dimensions (maximum)	24.5 mm x 14.2 mm x 11.1 mm (0.97" x 0.56" x 0.44")
Weight (maximum)	6.8 g (0.22 oz)
Termination	8 pin ZIF connector
Mounting	2 mounting holes, M1.6 mm threaded, 2 mm depth
Locators	2 locating holes, 0.8 mm diameter, 1.0 mm depth

ELECTRICAL

Input Voltage	3.3 VDC ± 0.15 VDC or 5.0 VDC ± 0.25 VDC
Power	280 mW
Operating Current	< 85 mA @ 3.3 VDC; < 60 mA @ 5.0 VDC
Standby Current	< 15 mA @ 3.3 VDC; < 10 mA @ 5.0 VDC
Sleep Mode Current	NA
Laser Class	Designed to be used as a CDRH:Class II and IEC, Class I component
EMC	Designed to be used as a FCC:Class A component

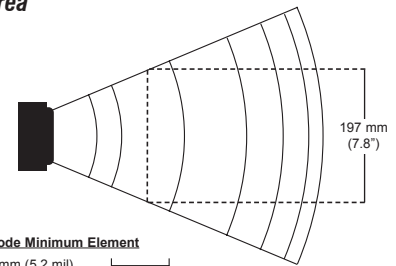
ENVIRONMENTAL

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	Housing dependent
Light Levels	Sunlight: 107,000 Lux (10,000 ft-candles); Ambient: 4842 Lux (450 ft-candles)
Shock	2000 G
Contaminants	Environment dependent
Ventilation	Environment dependent
Certification	UL recognized component

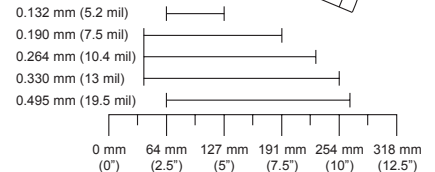
Note: Approval and certification from agencies such as the FDA (Food and Drug Administration) must be obtained by the manufacturer of the end equipment. The specifications required for agency approval are not obtainable until the miniQuest engine is used in its final configuration. Therefore, it becomes 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.



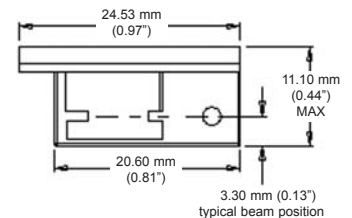
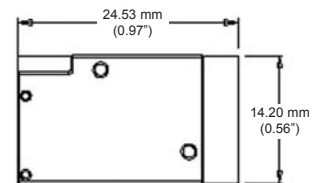
Scan Area



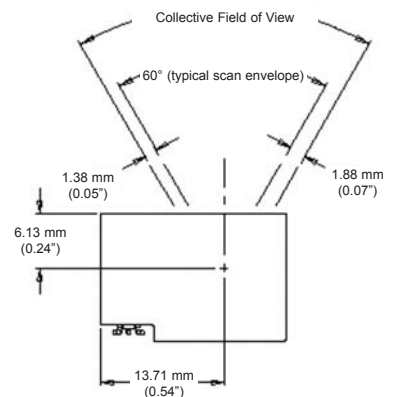
Bar Code Minimum Element



Dimensions



Field of View



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