



IG820

Area Imager Barcode Scanner

Specifications

Physical Characteristics

Weight	
Body weight	Approx. 110g / 3,88 oz
Material	
	ABS / Rubber
Cable Length	
	5FT. (150cm)
Dimension	
	73.5 mm W x 76.2 mm H x 173.0 mm L
Color Available	
	Black/Gray

Electrical Characteristics

Interface	RS232	USB
Supply Voltage		
Output Voltage (Typ.)	±9V	+5V
Output low Voltage (Max.)	-	0.7V
Current Draw		
Stand by (Typ.)	180 mA	180 mA
Operation (Typ.)	360 mA	360 mA

Performance

Light Source	White light LED
Sensor	752 (H) x 480 (V) pixels
Field of view	Horizontal – 40°, Vertical – 25°
Scan Rate	60 fps (at full resolution)
Reading Distance	250mm@20mil/0.5mm, PCS90%
Print Contrast Ratio	PCS45%@5mil/0.127mm
Resolution	3mil/0.076mm@PCS90% Code39, 10mil/.26mm@PCS90% QRCode
Reading Angle	<i>Test Conditions : Code 39, 10mil/0.25mm,PCS90%</i>
Pitch Angle	5°~60° (±5°)
Skew Tolerance	5°~60° (±5°)
Ambient Light	100,000 Lux Max.

Environmental

Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage Temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Relative Humidity	20% to 95% (Non-condensing)

Reliability

Life Time	
Trigger Switch	1,000,000 times @1kg ±50g cycles
MTBF(Calculated)	50,000 hours
Thermal Shock	
High Temp.	60 °C (140 °F)
Low Temp.	-20 °C (-4 °F)
Cycle time	30 minutes for high temp. , 30 minutes for low temp.
Cycles	24 cycles
Cable Bending Test	25,000 times minimum (30 times/min @ 200g/90°)
Drop Resistance	70.86 inches (180cm) drop on concrete surface
Electro-Static Discharge	Both contact and air at up to 16KV

Readable Symbolologies

1D Symbolologies

UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, Code 39, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, China Post, MSI/Plessey, Telepen, GS1 Databar Omni-directional, GS1 Databar Limited, GS1 Databar Expanded

2D Symbolologies

Data Matrix, PDF 417, QR Code
Option:
Aztec, Micro PDF 417, Micro QR Code, Han Xin Code, GM Code