IG220
2D Barcode Scanner

SCANTECH ID ®
CHAMPTEK Group

Introduction

IG220 is a general purpose, economical yet good performance 2D barcode scanner which is designed especially for retail, logistic and warehousing management market. It supports USB or RS232 interface with non-replaceable interface cable.

IG220 has modern design and good performance for the majority of 1D and 2D bar codes reading to increase your productivity. It can easily read the barcodes on label, display and other media.

An optional stand can be ordered to facilitate hand-free reading application.

Features

- Support most 1D, 2D codes.
- Good performance on both display and printed label reading.
- Support USB HID, Virtual COM and RS-232 interfaces.
- Interface cable is non-replaceable.
- An optional stand can be ordered to facilitate hand-free reading application.

IG220

Barcode	Depth of field
3mil Code39	20 ~ 55 mm
4mil Code39	20 ~ 75 mm
5mil Code39	20 ~ 100 mm
13mil EAN	20 ~ 220 mm
8mil PDF417	10 ~ 100mm
8mil QR Code	10 ~ 80 mm
8mil Data Matrix	10 ~ 75 mm
20mil QR Code	10 ~ 200 mm

The test is under ambient light 400 ~ 500 Lux.

Specifications

● Physical Characteristics

Weight	
Body weight	Approx. 155g / 5,47 oz
Material	ABS
Cable Length	150cm
Dimension	L167x W70 x H88mm
Color Available	Black body, orange button and windows side

● Electrical Characteristics

Interface	RS232	USB
Supply Voltage		
Output Voltage (Typ.)	±9V	+5V
Output low Voltage (Max.)	-	0.7V
Current Draw		
Stand by (Typ.)	57 mA	57 mA
Operation (Typ.)	< 130 mA	< 130 mA

● Performance

Light Source	White light illumiation, Red aimer
Sensor	640(H) x 480(V) pixels
Field of view	Horizontal – 36°, Vertical – 28°
Motion tolerance	25cm per second
Reading Distance	320 mm@20mil/0.5mm, PCS90%, Code39
Print contrast ratio	PCS25%
Resolution	1D: 4mil/0.1mm
	2D: 8mil/0.2mm QRCode
Reading Angle	
Pitch Angle	5°~50° (±5°)
Skew Tolerance	5°~50° (±5°)
Ambient Light	100,000 Lux Max.

● Environmental

Operating Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Relative Humidity	5% 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	47.2 inches (120cm) drop on concrete surface

● Readable Symbologies

1D Symbologies
UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, ISSN, Code 39, Code 39 Full ASCII, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, Code11, MSI,GS1 DataBar(14, Limited, Expanded).

2D Symbologies
QRCode, MicroQR Code, PDF417, Micro PDF417, Data Matrix, Aztec.

Due to Champtek/Scantech ID's continuing product improvement programs, specifications and features are subject to change.