



IG500

2D Barcode Scanner

SCANTECH ID[®]
CHAMPTEK Group

Introduction

IG500 is a general purpose gun-type 2D Barcode Scanner which is designed especially for retail, logistic and warehousing management market. We include friendly functions with replaceable multiple interface cable options that makes it more easily to be operated by the customers to accommodate itself to user environment.

IG500 has most modern design with rugged casing and supports IP52 sealing protection, with its unmatched performance for the majority of 1D and 2D bar codes, OCR-B character reading to increase your productivity. An optional stand can be ordered to facilitate hand-free reading application.

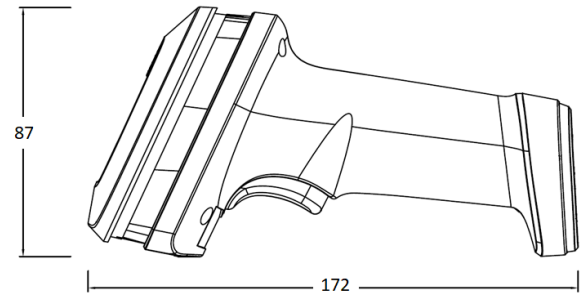
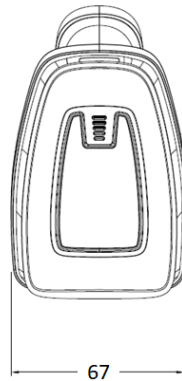
Features

- Support most 1D, 2D and GS1 Databar codes, and OCR-B character reading.
- The new button design with the high-rebound switch components, the handle perfectly fits the palms of different sizes.
- Good performance on both display and printed label reading.
- Support multiple interface options, USB HID, Virtual COM and RS-232.
- Designed as IP52 sealing protection.
- A stand option can be ordered to facilitate hand-free reading options.
- Support vibration when scanning.



IG500

Barcode	Depth of field
3mil Code39	70~150 mm
4mil Code39	60~160 mm
5mil Code39	50~240 mm
13mil UPC-A	40~450 mm
5mil PDF417	65~210mm
5mil QR Code	75~140 mm
10mil QR Code	45~290 mm
10mil Data Matrix	30~260 mm
20mil QR Code	20~480 mm



The test is under ambient light 500 ~ 600 Lux.

Mechanical Drawing
Unit: mm

Specifications

Physical Characteristics

Weight	
Body weight	Approx. 220g / 7,76 oz (include cable)
Material	
	ABS
Cable Length	
	6FT (180cm)
Dimension	
	172 x 67 x 87mm
Color Available	
	Black

Electrical Characteristics

Interface	RS232	USB
Supply Voltage		
Output Voltage (Typ.)	±9V	+5V
Output low Voltage (Max.)	-	0.7V
Current Draw		
Stand by (Typ.)	< 130 mA	< 130 mA
Operation (Typ.)	< 280 mA	< 280 mA

Performance

Light Source	White light illumination, Green aimer
Sensor	1280 (H) x 800 (V) pixels
Field of view	Horizontal – 45°, Vertical – 36°
Scan Rate	60 fps
Reading Distance	450mm@20mil/0.5mm, PCS90%, QRCode
Print Contrast Ratio	PCS20%
Resolution	1D: 3mil/0.076mm 2D: 6.67mil/0.2mm
Reading Angle	
Pitch Angle	5°~60° (±5°)
Skew Tolerance	5°~60° (±5°)
Ambient Light	100,000 Lux Max.
Sealing	IP52 Water and dust protection

Environmental

Operating Temperature	-10 °C to 50 °C (14 °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	47.24 inches (120cm) drop on concrete surface
Electro-Static Discharge	Contact 8KV and air 16KV

Readable Symbologies

1D Symbologies
UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, ISSN, UCC/EAN-128 , Code 39, Code 39 Full ASCII, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, Code11, China Post, MSI, Telepen, GS1 Databar Omni-directional, GS1 Databar Limited, GS1 Databar Expanded

2D Symbologies
Aztec, Data Matrix, MaxiCode, QRCode, PDF417, Micro PDF417, HANXIN, MicroQR Code, Dotcode, Grid Matrix

Support to read OCR-B character

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