



IP 54 SG700/BT

Gun-type Linear Imager Bar Code Scanner

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Introduction

SG700/SG700BT is a rugged gun-type linear imager bar code scanner which is designed especially for retail, logistic and warehousing management market.

We include friendly functions with replaceable multi-interface cable options that makes it more easily to be operated by the customers to accommodate itself to user environment and a stand option can be ordered to facilitate hand-free reading option.

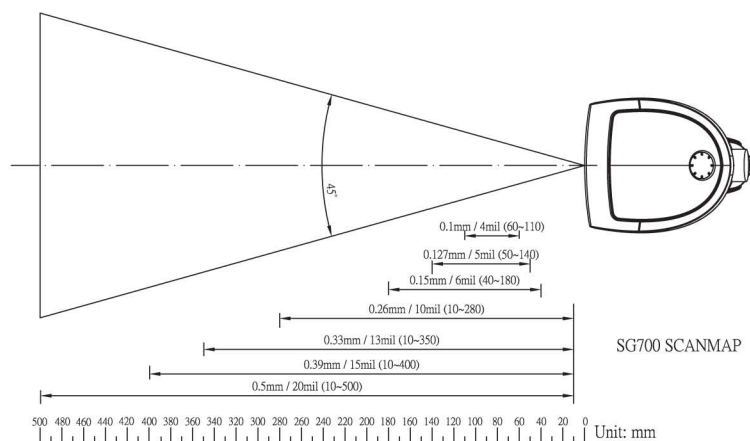
It has most modern design with rugged IP54 sealing protection casing. Its wireless supports Class1 Bluetooth V2.1 EDR technology with transmission range up to 100 m/328.08 ft. in line of sight.

With its smart auto-shuttle emulation detection , it offers reading speed up to 500 scans per second and up to 500mm reading depth of field for symbologies including the majority of 1D codes plus GS1 DataBar™ linear codes.

Features

- Support major 1D codes, GS1 Databar and Databar Stacked Codes.
- Automatic detect reading mode.
- Reading distance up to 500mm (20mil/0.5mm@code39 pcs90%).
- Smart detect reading speed up to 500 scans per second.
- Rugged casing that supports IP54, dropping from 1.8m.
- 4 in 1 Combo interface that changes interface by replacing cable.
- Bluetooth V2.1 Class 1 technology, Range up to 100 m/328.08 ft. in open space.
- Bluetooth supports HID and SPP profiles.

SG700/BT



Specifications

Physical Characteristics

SG700

Body weight	Approx. 152.6g
Material	ABS / Rubber
Cable Length	5ft (150cm)
Connector	RJ 45C 10Pins
Dimension (WxHxL)	75 x 71.73 x 177.96 mm

SG700 Stand (Option)

Dimension (WxHxL)	100 x 204.4 x 160 mm
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SG700BT

Scanner weight	Approx. 214.6g (incl. Battery)
Dimension (WxHxL)	75 x 71.73 x 177.96 mm
Cradle weight	Approx. 147.4g
Dimension (WxHxL)	112.18 x 84.64 x 130.6 mm

Performance

Light Source	Visible Red Light 632 nm LED
Sensor	Linear CCD Sensor
Processor Type	32-bit
Operating Freq.	8 MHz
Scan Speed	Smart detection, up to 500 scans per second
Depth of Field	Up to 500mm@20mil/0.5mm, PCS90%
Print Contrast Ratio	30%
Minimum Resolution	4mil/0.1mm@PCS90%
Reading Angle	Test Conditions : Code 39, 10mil/0.25mm, PCS 90%
	Pitch : $\pm 10^{\circ} \sim 65^{\circ} (\pm 5^{\circ})$
	Skew : $\pm 60^{\circ} (\pm 5^{\circ})$
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)
Sealing protection	IP54

Electrical Characteristics

SG700

Voltage	DC +5V $\pm 5\%$
Operation Consumption	150mA

SG700BT Scanner

Voltage Battery	Li-Ion 3.7V/2600 mAh
Charge Time	Approx. 5 hours
Reads per Charge	50,000 Times
Operation Consumption	200mA

SG700BT Cradle

Voltage	DC +5V $\pm 5\%$
Operation Consumption	70mA

Radio Characteristics

Bluetooth Module	Bluetooth V2.1 EDR
Frequency Band	2.402GHz ~ 2.480GHz
Transmission Range	Up to 100m / 328.08 ft. line of sight
RF Output Power	Class 1 (under 20dBm)

Reliability

MTBF(Calculated) SG700	50,000 hours
SG700BT	40,000 hours minimum
Cable Bending Test	25,000 times minimum (30 times/min @ 500g/90°)
Drop	70.86 inches (180cm) drop on Concrete Surface

Readable Symbolologies

All UPC/EAN/JAN, EAN128 Code, Code 39, Code 39 Full ASCII Code32 / Italian Pharmacy, Code 128, CODABAR/NW7 Interleave 25, Industrial 25, Matrix 25, MSI/PLESSEY, Telepen Code 93, Code 11, China Postage, Code 26, LCD25, GS1 DataBar

Due to Champtek's / Scantech ID's continuing product improvement programs, specifications and features are subject to change without notice.