

# IP 54 SG-700

## Gun-type CCD Scanner



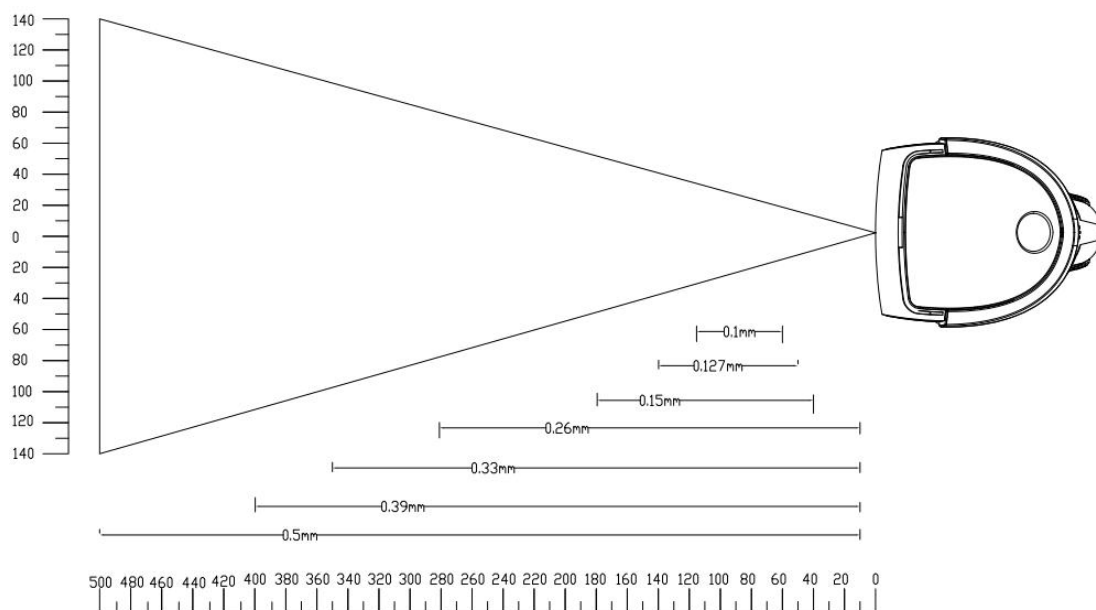
### Introduction

SG-700 is a gun type barcode scanner which is design specifically for retail market. We include friendly functions with the replaceable cable that makes it more easily to be operated by the customers.

SG-700 has most modern design with rugged casing that supports IP54 dropping from 1.8m and decoding distance up to 50cm. There is dual-field optical platform of the SG-700, allows users to scan both wide bar codes and very small bar codes with the same device.

### Features

- Support 1D barcodes.
- Support GS1 DataBarStack codes.
- Automatic detect reading mode.
- High performance Gun-Type decoder. Decoding distance up to 50cm (20mil/0.5mm@code39 pcs90%).
- Smart detect reading speed up to 500 scans/sec.
- Rugged casing that supports IP54 dropping from 1.8m.
- 4 in 1 Combo interface that changes interface by replacing cable.



## Specifications

### Physical Characteristics

Body weight	Approx. 150g
Material	ABS
Cable Length	5FT. (150cm)
Connector	RJ 45C 10Pins
Dimension	171.31 mm X 75 mm X 82.85 mm

### Performance

Light Source	Visible Red light 635nm LED
Sensor	Linear CCD Sensor
Processor Type	ARM Cortex™-M3, 32-bit
Operating Freq.	8 MHz
Scan Rate	Smart detect up to 500 scans/second
Reading Distance	500mm@20mil/0.5mm, PCS90%
Print Contrast Ratio	PCS45%@4mil/0.1mm
Resolution	4mil/0.1mm@PCS90%
Reading Angle	Test Conditions : Code 39, 10mil/0.25mm, PCS 90%
Forward & Backward	10°~65°(±5°)
Left & Right	± 60°(±5°)
Ambient Light	10,000 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

Light Source	40,000 hours
Trigger Switch	1,000,000 times
MTBF(Calculated)	80,000 hours

#### Thermal Shock

High Temp.	50°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 @ 500g/90 o)

#### Drop

70 inch(180cm) drop on  
Concrete Surface

#### Sealing

IP 54(water and dust resistant)

### 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.