

IP 54 LG700/BT

Multi-lines Gun type laser Scanner



LG700/BT Multi-lines Gun type laser Scanner

Introduction

LG700/LG700BT is a Multiple Laser lines bar code scanner which is perfect for use in retail environments and logistic activities. 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 options.

LG700 has most modern design with rugged casing and supports IP54 sealing protection, LG700BT Wireless Barcode Scanner supports Class1 Bluetooth V2.0 EDR technology with transmission range up to at least 80m in line of sight.

It offers good reading performance and is capable of reading a wide range of symbologies including the majority of 1D codes plus GS1 DataBar™ linear codes. With its multiple parallel laser scan lines, it offers snappy reading performance especially on GS1 stacked Databar.

Features

- Support multiple parallel Laser scan lines.
- Support 1D barcodes and GS1 DataBar and GS1 Stacked codes.
- Automatically detect reading mode.
- Reading distance up to 30cm (20mil/0.5mm@code39 pcs90%).
- Reading speed up to 500 scans/second.
- Multiple laser lines and single laser line mode can be switched by double click trigger.
- Rugged casing that supports IP54/IP42 sealing protection.
- 4 in 1 Combo interface that changes interface by replacing cable.
- Bluetooth V2.0 Class 1 technology, range up to 80m in open space.
- Bluetooth supports HID and SPP profiles.

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Specifications

Physical Characteristics

LG700

Body weight	Approx. 150g
Material	ABS / Rubber
Cable Length	5ft (150cm)
Dimension	82.9 mm (L) x 75.0 mm (W) x 171.3 mm (H)

LG700 Stand (Option)

Dimension	160.0 mm (L) x 100.0 mm (W) x 204.4 mm (H)
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LG700BT

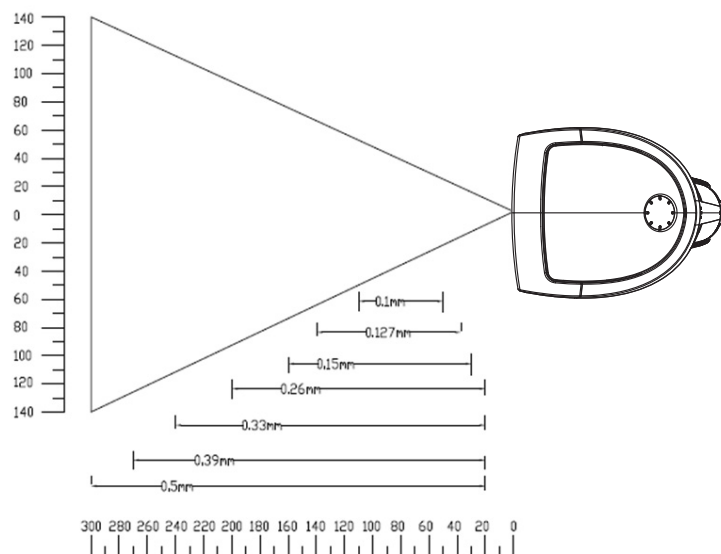
Scanner weight	Approx. 215g(incl. Battery)
Dimension	82.9 mm (L) x 75.0 mm (W) x 171.3 mm (H)
Cradle weight	Approx. 150g
Dimension	130.6 mm (L) x 112.2 mm (W) x 84.6 mm (H)

Performance

Light Source	Visible Red light 650nm Laser
Sensor	Photo Diode
Processor Type	ARM Cortex™-M3, 32-bit
Operating Freq.	8 MHz
Scan Speed	Up to 500 scans/second
Depth of Field	Up to 300mm@20mil/0.5mm, PCS90%
Print Contrast Ratio	PCS60%@4mil/0.1mm
Minimum Resolution	4mil/0.1mm@PCS90%
Reading Angle	Test Conditions : Code 39, 10mil/0.25mm, PCS 90% Pitch : $\pm 5^{\circ} \sim 60^{\circ} (\pm 5^{\circ})$ Skew: $\pm 5^{\circ} \sim 60^{\circ} (\pm 5^{\circ})$
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)
Sealing protection	IP 54 for LG700, IP42 for LG700BT



Electrical Characteristics

LG700 Scanner

Voltage	DC5V
Operation Consumption	230mA

LG700BT Scanner

Voltage Battery	Li-Ion 3.7V/2600 mAh
Charge Time	5.5 hours
Reads per Charge	12,000 Times
Operation Consumption	290mA

LG700BT Cradle

Voltage	DC5V
Operation Consumption	70mA

Radio Characteristics

Bluetooth Module	Bluetooth V2.0 EDR
Frequency Band	2.402GHz ~ 2.480GHz
Transmission Range	Up to 80M(266.67ft) line of sight
RF Output Power	Class 1 (under 20dBm)

Reliability

MTBF(Calculated) LG700	40,000 hours minimum
LG700BT	25,000 hours minimum
Cable Bending Test	25,000 times minimum (30 times/min @ 500g/90°)
Drop	47.24inches (120cm) 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, GS1 DataBar

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