CHAMPTEK®

FS310

Fixed Mount CCD Scanner

General Description

This brand-new designed handheld CCD scanner has inherited the characteristic of "high performance with low price" from its previous series. Aside from the principle of excellence mechanical design, it also installs with many user-friendly operations; extra-large trigger enable user to access the trigger in any scanning position, detachable cable, and 2 years product warranty; these have added-up additional values to it.

Performance: Its auto-shuttle-emulation-like smart detection, offers superior decoding performance on a reading speed up to 500 scans per second and up to 500mm reading depth for the majority of 1D bar codes and GS1 DataBar™ codes. A stand option can be ordered to facilitate hand-free "continuous mode" reading options.

With its built-in automatically turn off reading and switch on reading as it sense a bar code moving in front of it, can extend its lifespan. its 100,000 LUX ambient light resistance, hand-on software-programming function, this FS310 is the best choice ever for various fixed mount/build in OEM bar code scanning application.

CHAMPTEK®

*We value your ID's*

FS310

Features

- Linear imager fixed mount scanner which offers superior 1D scanning.
- Compact and lightweight design is flexible for external application requirement.
- Easily integrated with various OEM application.
- Center decoding utility to eliminate the need to position items precisely.

Specifications

Physical Characteristics

Weight

Body weight	Approx. 3.98 oz（113 g）
Cable weight(USB)	Approx. 4.24 oz（120 g）
Material	Polycarbonate
Cable Length	5FT.（150cm）
Dimension	56 mm W x 69 mm D x 28 mm H

Performance

Light Source	Visible Red light 632nm LED
Sensor	Linear CCD Sensor
Processor Type	32-bit
Operating Freq.	8 MHz (Internal)
Scan Rate	Smart detection, up to 500 scans per second ±10%
Reading Distance	Up to 500mm@20mil/0.5mm PCS90%, Code39
Print Contrast Ratio	30%
Resolution	4mil/0.1mm@PCS90%
Reading Angle	Test Conditions:Code 39, 10mil/0.25mm, PCS90%
Forward & Backward	±10°~65°(±5°)
Left & Right	± 60°(±5°)
Ambient Light	100,000 Lux Max. @ Direct sun light

Interfaces

RS232	KB	USB

DC Input : 5V±5%

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)

FS310 SCANMAP
Unit: mm

- 0.1mm/4mil (80~130)
- 0.127mm/5mil(75~150)
- 0.15mm/6mil(70~170)
- 0.26mm/10mil(50~280)
- 0.33mm/13mil(40~350)
- 0.39mm/15mil(40~400)
- 0.5mm/20mil(40~500)
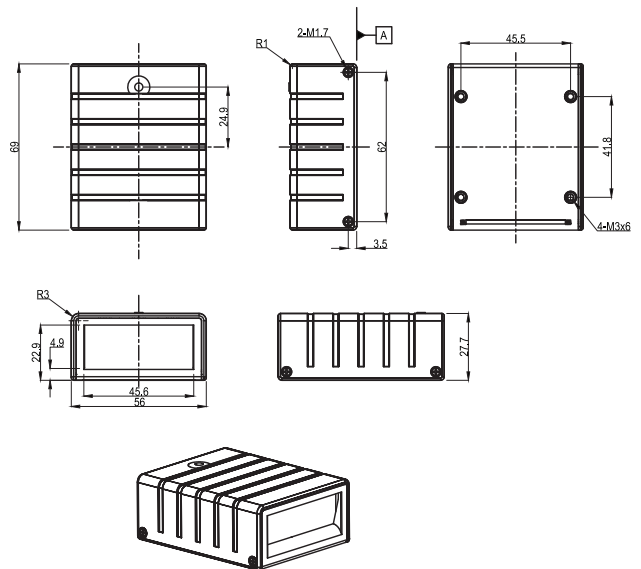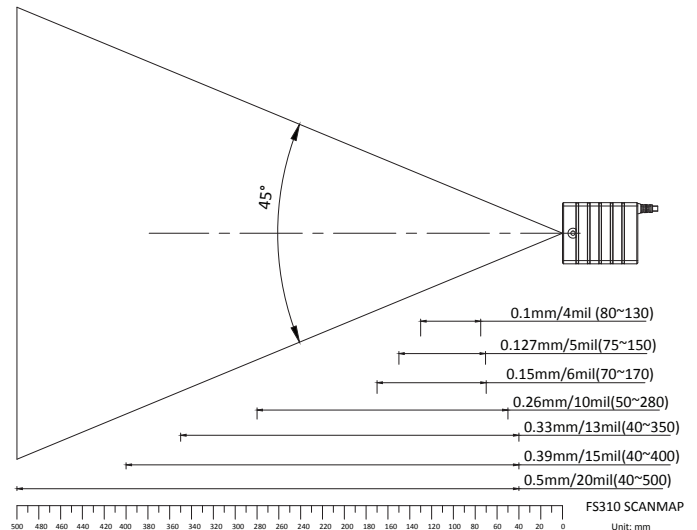
Reliability

Life Time

Trigger Switch	1,000,000 times
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 @ 500g/90°)
Drop	47.24 inches(120cm) drop on Concrete Surface

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