FUZZYSCAN
www.cino.com.tw

L680 Series

A Compact and Durable Laser Imager for Retail and Commercial Applications

- Sharp laser aiming for quick and precise barcode capture in any lighting condition
- Durable construction without moving parts inside withstands multiple drops to concrete from 1.5 meter
- Unsurpassed readability on low contrast, laminated, high-density, poorly-printed, low-height and on-screen barcodes
- GS1 DataBar, PDF, MicroPDF and composite code support
- Outstanding reading capability on 3 mil barcode with more than 2" depth of field
- More than 16" reading distance on 100% UPC/EAN symbols
- Superior motion tolerance for rapid and accurate data-capture on the move
- High speed scanning rate up to 500 scans per second for snappy barcode capture
- All-in-one host interface design, including USB HID, USB COM, PS/2 keyboard wedge and RS232
- Automatically switch between presentation scanning and hand-held scanning while working with Cino SmartStand
- Optional vibrator for noisy working environment

The L680 bar code laser imager is built on revolutionary FuzzyScan 2.0 Imaging Technology and integrated with unique laser aimer. It not only delivers outstanding readability, but also provides sharp laser aiming for quick and intuitive barcode capture in any lighting environments. The compact and durable construction without moving parts inside delivers extreme reliability for long lasting performance. The L680 is the most cost-effective choice to replace traditional bar code scanner to meet the demand of retail and commercial applications.

Quick-and-Intuitive barcode capture

Besides LED illumination, the L680 also provides sharp laser aiming for quick and intuitive barcode capture. This also makes L680 capable of positioning the bar code from longer distance easily and scanning bar code under high ambient light environments.

Durable construction for maximum reliability

The L680 is designed durably to withstand multiple drops to concrete from 1.5meter and endure a wide rage of temperature. Furthermore, no moving parts inside makes L680 require less maintenance and delivers high reliability.

Outstanding Reading Performance

Thanks to FuzzyScan 2.0 Imaging Technology, the L680 is capable of reading low contrast, damaged, smudged, poorly-printed, laminated, low-height and on-screen barcodes that are commonly found in the real world quickly and accurately. To meet the latest application requirement, the L688 supports most popular linear-stacked barcodes, including PDF, MicroPDF, Codablock, GS1 DataBar Linear-stacked and Composite.

cino®

Specifications

Performance Characteristics

Optical System	High performance Linear Imaging Engine
Print Contrast	25% minimum reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Working Distance [1]	More than 16 inches on 100% UPC/EAN symbols More than 24 inches on 20 mil Code 39
Light Source	630nm visible red LED with laser aiming
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Pitch/Skew/Tilt	± 65˚/±65˚/±55˚
Operating Modes	Trigger, Level, Alternative, Low power, Presentation
Host Interfaces	PC/AT, PS/2 (DOS V) keyboard wedge PC/AT, PS/2 (DOS V) keyboard direct link TTL RS-232 serial USB HID (USB Keyboard) USB COM port emulation Laser emulation and Wand emulation
Configuration Setup	Bar code command Windows utility - FuzzyScan PowerTool
Data Editing	Condensed DataWizard via bar code command Full-feature DataWizard via FuzzyScan PowerTool
User Interfaces	3 LEDs for power, good read and status indications Programmable beeper Optional vibrator

Supported Symbologies

1D Linear (L680)	Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic Code 128, UCC/EAN-128, Codabar, Code 11, Code 93 Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5 German Postal Code, China Postal Code, IATA UPC/EAN/JAN, UPC/EAN/JAN with Addendum Telepen, MSI/Plessey & UK/Plessey GS1 DataBar (formly RSS) Linear, Linear-stacked
Linear-stacked (L688)	PDF417, Micro PDF417, Codablock, Composite

User Environment

Drop Specifications	Withstand multiple 1.5m/5ft. drops to concrete
Environmental Sealing	IP41
Operating Temperature	-10˚C to 50˚C (14˚F to 122˚F)
Storage Temperature	-40˚C to 70˚C (-40˚F to 158˚F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	0 ~ 100,000 lux
ESD Protection	Functional after 15kV discharge

Physical Characteristics

Dimension	97.0 mm (L) x 65.0 mm (W) x 156 mm (D) 3.81 in. (L) x 2.55 in. (W) x 6.14 in. (D)
Weight	125g (without cable)
Color	Light Gray or Black
Input Voltage	5VDC ± 10%
Current	Operating : Typical 190 mA @5VDC Standby : Typical 90 mA @5VDC

Safety & Regulatory

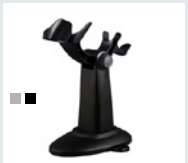
EMI/RFI	FCC Part 15 Class B, ICES-003 Class B European Union EMC Directive (CE) Taiwan EMC (BSMI)
Safety [2]	LED Eye Safety IEC60825-1, EN60825-1 Laser Eye Safety IEC60825-1, Class 1
Environmental	Compliant with RoHS directive

Accessories

Cables	PS/2 (DOS V) Keyboard Wedge Cable RS232 Serial Cable USB Cable USB Power Steal Cable
Others	Hand-free SmartStand Universal Holder

Accessories

Hand-free SmartStand



Universal Holder

Colors Available : ■ black ■ light gray

1. The working distances are measured in 400lux office environment using Grade A bar codes.
2. Don't stare into the laser beam.