FUZZYSCAN
www.cino.com.tw

F680 Series

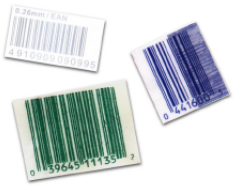
A Compact and Durable Bar Code Linear Imager for Retail and Commercial Applications

- GS1 DataBar, PDF, MicroPDF and composite code support
- Outstanding reading capability on 3 mil barcode with more than 3" depth of field
- Up to 24" reading distance on 100% UPC/EAN symbols
- Up to 34" reading range on general barcodes
- Unsurpassed readability on low contrast, soiled, poorly-printed or damaged barcodes
- 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 and RS232
- Automatically switch between presentation scanning and hand-held scanning while working with Cino SmartStand
- Optional vibrator for noisy working environment

The FuzzyScan F680 series bar code linear imager from Cino is built on cutting-edge FuzzyScan 3.0 Imaging Technology. It comes as the top performer in its class at affordable price. The combination of compact yet durable form-factor and superior reading performance make it an ideal solution for retail and commercial applications. The Cino F680 will boost your productivity and provide a path to stay ahead of the competition.

Outstanding reading performance

Thanks to FuzzyScan 3.0 Imaging Technology, the F680 series is capable of reading low contrast, damaged, smudged, poorly-printed barcode labels that are commonly found in the real world quickly and accurately.



Latest linear-stacked barcodes support

To meet the latest application requirement, the F688 supports most popular linear-stacked barcodes, including PDF, MicroPDF, Codablock, GS1 DataBar Linear-stacked and Composite.

Increase productivity with SmartStand

To maximize user's efficiency and productivity for hand-free applications, F680 is designed to switch automatically between presentation scanning and hand-held scanning by working together with Cino SmartStand.

cino®

Specifications

Performance Characteristics

Optical System	High performance Linear Imaging Engine
Print Contrast	15% minimum reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Working Distance *1	Up to 24 inches on 100% UPC/EAN symbols Up to 34 inches on 20 mil Code 39
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Pitch/Skew	± 65˚/65˚
Operating Modes	Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation
Host Interfaces	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 (F680)	Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic Code 128, GS1 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 (F688)	PDF417, Micro PDF417, Codablock, Composite

User Environment

Drop Specifications	Withstand 50 drops at 5.2ft / 1.6m to concrete Withstand 10 drops at 6.0ft / 1.8m to concrete
Environmental Sealing	IP42
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 180 mA @5VDC Standby : Typical 80 mA @5VDC

Safety & Regulatory

EMC	CE,FCC,BSMI,C-Tick,KC,VCCI
Safety *2	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS directive

Accessories

Cables	RS232 Serial Cable USB Cable USB Power Steal Cable
Others	US100 Hand-free SmartStand US50 Hand-Free Stand Universal Holder

Accessories

Hand-free Stand

Universal Holder

Colors Available : ■ black ■ light gray

1. The reading distances are measured under Cino's test environmental condition.
2. Don't stare into the LED beam.