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 2" depth of field

More than 16" reading distance on 100% UPC/EAN symbols

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, 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 FuzzyScan F680 series bar code linear imager from Cino is built on cutting-edge FuzzyScan 2.0 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 2.0 Imaging Technology, the F680 series is capable of reading damaged, dirty, poorly-printed and low contrast 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.

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Specifications

Performance Characteristics

Optical System	High performance Linear Imaging Engine
Print Contrast	20% minimun reflective difference
Minimum Resolution	Typical 3 mil (code 39, PCS = 0.9)
Working Distance	More than 16 inches on 100% UPC/EAN symbols* More than 24 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	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 programming manual Windows utility - FuzzyScan PowerTool
Data Editing	Condensed DataWizard via bar code manual 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, 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 (F688)	PDF417, Micro PDF417, Codablock GS1 Data Bar Linear-stacked and Composite

User Environment

Drop Specifications	Withstand multiple 1.5m/5ft. drops to concrete
Environmental Sealing	IP41
Operating Temperature	0˚C to 50˚C (32˚F to 122˚F)
Storage Temperature	-20˚C to 60˚C (-4˚F to 140˚F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting conditions

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 185 mA @5VDC Standby : Typical 85 mA @5VDC

Safety & Regulatory

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

Accessories

Cables	USB Cable, PS/2 (DOS V) Keyboard Wedge Cable RS-232 Serial Cable USB Power Steal Cable
Others	Hand-free SmartStand Universal Holder

Accessories

Hand-free SmartStand

Universal Holder
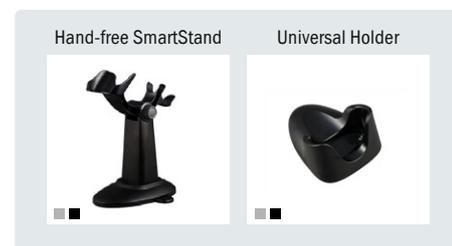
Colors Available : ■ black ■ light gray

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* The working distances are measured in 400lux office environment using Grade A bar codes.

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