F790 Series

A ruggedized long range bar code linear scanner for general purpose and industry applications

Outstanding reading range on capturing general barcode up to 34" distance

Capable of reading 3-mil high density barcode

More Excellent reading width than most imagers and laser scanners

Ruggedized over-mold design to withstand multiple drops to concrete from 2.0 meter

GS1 DataBar, PDF, MicroPDF and composite code support

Unsurpassed readability on low contrast, smudged, 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 Cino F790 linear imaging scanner is the best-of-class members of FuzzyScan family. Powered by innovative FuzzyScan 3.0 imaging technology and unique optical design, the F790 performs superb reading performance for both long distance and wide barcode capture. It not only can read high resolution 3 mil barcode, but also can capture 20 mil barcode up to 34". The F790 can meet most of barcode scanning demands for a wide range of applications, providing a cost-performance solution for general purpose and industry applications.

Exceptional reading performance

The F790 shares all of the brazing performance of Fuzzyscan scanners, including snappy reading, superior motion tolerance and outstanding reading capability on real-world barcodes, such as damaged, smudged, poorly-printed, low contrast, high density and on-screen barcodes. The special-designed optical instrument allows it to read barcode from 34" far away, allowing user to read those difficult-to-reach barcodes easily.

Ruggedized and solid construction

The F790 is built with robust over-mold housing. It is rugged enough to withstand multiple drops from 2.0 meter to concrete and endure a wide rage of temperature. It's a cost-effective solution for light industry applications such as warehouse and distribution center.

Specifications

Performance Characteristics

Optical System	High performance Linear Imaging Engine
Print Contrast	10% 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 20mil 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	$\pm 65°$ / $\pm 65°$
Operating Modes	Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation
Host Interfaces	RS232 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	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	PDF417, Micro PDF417, Codablock, Composite

User Environment

Drop Specifications	Withstand 50 drops at 6.0ft / 1.8m to concrete Withstand 10 drops at 6.6ft / 2.0m 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

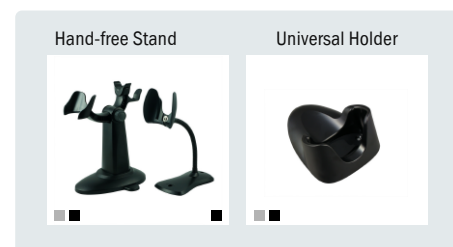|	
Dimension	97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D) 3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D)
Weight	157g (cable excluded)
Color	Black
Input Voltage	5VDC ± 10%
Current	Operating : Typical 180 mA @5VDC Standby : Typical 80 mA @5VDC

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

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