

# F460 Series

A Stylish, Cost-performance Bar Code Linear Imager  
for Retail and Commercial Applications

GS1 DataBar, PDF, MicroPDF and composite code support

Capable of reading 3 mil barcode on contact

Outstanding reading range up to 8" on 100% UPC/EAN symbols

Unsurpassed readability on damaged, poorly-printed, smudged or low contrast barcodes

Ergonomic design for intuitive scanning and maximum user comfort

Durable construction to withstand multiple drops to concrete from 1.5 meter

All-in-one host interface design, including USB HID, USB COM, PS/2 keyboard wedge and RS232

Optional vibrator for noisy working environment



The Cino F460 series bar code imager is developed with innovative FuzzyScan 2.0 Imaging Technology, providing optimized reading performance at an affordable price. Its stylish and durable form factor not only makes scanning a breeze but also stand up to daily abuse. All these advantages make F460 ideal for small business, retail and commercial applications. The F460 series is the best choice to fulfill your demand and improve your efficiency right out of the box.

### **Ergonomic design and durable construction**

Designed to meet the needs of intensive use all day, the F460's ergonomic form factor gives user the maximum comfort to work intuitively without fatigue. Solid housing ensures F460 surviving 1.5 meter multiple drops to concrete, providing long lasting performance and reducing your total cost of ownership.



### **Superb readability and linear-stacked support**

Thanks to FuzzyScan 2.0 Imaging Technology, the F460 series is capable of reading low contrast, damaged, smudged and poorly-printed barcodes labels quickly and accurately. Furthermore, the F468 supports most popular linear-stacked barcodes, including PDF, MicroPDF, Codablock, GS1 DataBar Linear-stacked and Composite.



# Specifications

## Performance Characteristics

Optical System	High performance Linear Imaging Engine
Print Contrast	20% minimum reflective difference
Minimum Resolution	Typical 3 mil (code 39, PCS 0.9)
Working Distance <sup>1</sup>	Up to 8" from contact on 100% UPC/EAN symbols
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate up to 250 scans per second
Reading Direction	Bi-directional (forward and backward)
Reading Width	Typical 62mm on contact reading
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 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 Symbolologies

1D Linear (F460)	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 (formerly RSS) Linear, Linear-stacked
Linear-stacked (F468)	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 ~ 20,000 lux

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

## Physical Characteristics

Dimension	174 mm (L) x 74 mm (W) x 31 mm (D) 6.85 in. (L) x 2.91 in. (W) x 1.22 in. (D)
Weight	127g (cable excluded)
Color	Gray or Black
Input Voltage	5VDC ± 10%
Current	Operating : Typical 180 mA @5VDC Standby : Typical 80 mA @5VDC

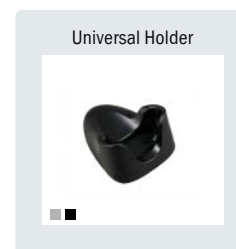
## Safety & Regulatory

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

## Accessories

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

## Accessories



Colors Available :  
■ black ■ light gray