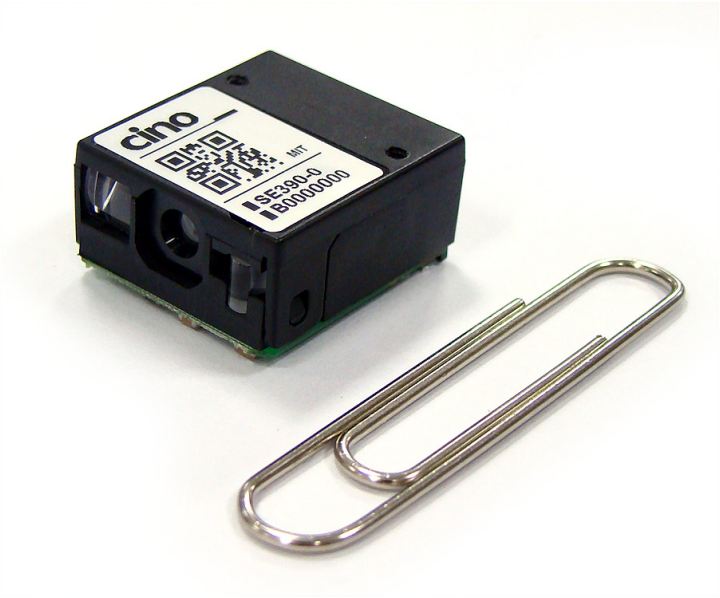
FUZZYSCAN
www.cino.com.tw

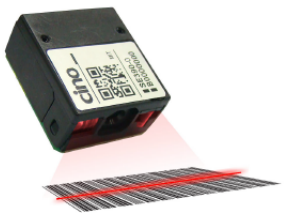
SE480 Series

A Miniature, High Performance and Ease-of-Integration Laser Imager Engine for OEM Applications

- Bright laser aiming for quick and precise barcode capture
- Ultra-compact and lightweight for easy integration into portable and fixed OEM devices
- GS1 DataBar, PDF, MicroPDF and composite code support
- Outstanding reading capability on 3 mil barcode with more than 3" depth of field
- Up to 34" reading range on general barcodes
- Superb 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
- Support multiple host interfaces including RS232, USB HID and USB COM
- Low power consumption extends battery life for battery-powered devices



Built with the state-of-the-art FuzzyScan 3.0 Imaging Technology and unique laser aimer, the unparalleled combination delivers outstanding reading performance and sharp laser aiming for quick-and-precise barcode capture. The SE480 not only shares the benefit of laser scan engine, but also offers all premiums of imager scan engine. The miniature and ultra-compact form factor make SE480 ideal for a variety of OEM applications. The SE480 represents the best value in its class and is the best solution to replace traditional laser scan engine.



Quick-and-precise barcode capture

Besides LED illumination, the SE480 also provides laser aiming which makes the barcode-capture quick and easy. This enables SE480 to perform more precise and intuitive scanning in any environment, including indoor or outdoor. It is also ideal for low-height barcodes reading.

Miniature and lightweight form factor

The ultra-compact and lightweight form factor allows SE480 to be integrated easily into different portable and fixed OEM devices where space is limited, including hand-held or fixed scanners, mobile computers and PDAs.

Superb readability and linear-stacked support

Thanks to FuzzyScan 3.0 Imaging Technology, the SE480 is capable of reading low contrast, damaged, smudged, poorly-printed barcode labels that are commonly found in the real world quickly and accurately. To meet the latest application requirement, the SE488 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	20% 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 with laser aiming
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Scan Angle	42˚
Pitch/Skew	± 65˚/ ± 55˚
Operating Modes	Low power, Trigger, Force, Level Alternative, Presentation
Host Interfaces	TTL RS-232 serial USB HID (USB Keyboard) USB COM port emulation
Configuration Setup	Bar code command API Serial command
Data Editing	Condensed DataWizard via bar code command

Supported Symbologies

1D Linear (SE480)	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 (SE488)	PDF417, Micro PDF417, Codablock F GS1 Data Bar Linear-stacked and Composite

User Environment

Operating Temperature	-20˚C to 60˚C (-4˚F to 140˚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

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

Physical Characteristics

Dimension	23.0 mm (D) x 21.0 mm (W) x 11.9 mm (H) 0.91 in. (D) x 0.82 in. (W) x 0.47 in. (H)
Weight	6 g
Input Voltage	3.3VDC ± 10%
Current	Scanning : Typical 150 mA @3.3VDC Standby : 50 µA @3.3VDC (Low power mode)
Connector	12-pin low profile

Safety & Regulatory

Safety *2	Laser Eye Safety IEC60825-1, Class 1 Led eye safety IEC62471,Exepmt Group
Environmental	Compliant with RoHS directive

Evaluation Kit

Evaluation Board

Cable Set