# SM5700 Series

## A self-contained Area Imaging OEM scan module for barcode scanning applications

Compact and easy mounting design allowing for flexible integration

On-board beeper and LED indicators provide clear user feedback

Support RS232, USB COM and USB HID host interfaces

Useful test mode helps to identify the optimal mounting position

Flexible user-defined serial trigger command supported

Support serial command trigger and external trigger

OK and NG output signals supported for precise reading control

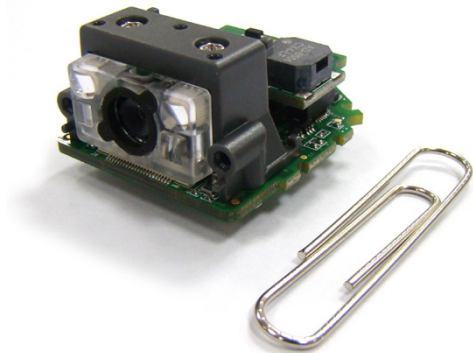Read most of popular 1D, stacked and 2D bar codes

Superior Readability on most of real world bar codes

Read bar codes on curved surface or printed on reflective material

High-density and standard range models are offered to satisfy various data capture needs

DataWizard Premium supported for scanned data manipulation and security protection

Ideal for embedded barcode scanning applications



The FuzzyScan Area Imaging scan module SM5700 series is a "Ready-to-use" solution designed with system integration in mind. It features all characteristics of Cino fixed-mount scanner but in a small and compact construction. The miniature and ease-of-integration design enable the system designers to integrate it into various equipments with ease. In addition, with the dint of the latest FuzzyScan Imaging Technology 3.0, SM5700 series presents outstanding reading performance on most 1D, stacked and 2D bar codes. It provides a superior cost-performance solution for OEM embedded barcode scanning applications.

### Compact and Easy-to-Integrate Design
By its compact and easy-mounting design, SM5700 series can be integrated into various space-limited OEM devices. Moreover, it's equipped with intuitive LED indicators and user-configurable beeper for clear operation status indication. The SM5700 series supports major host interfaces including RS232, USB COM and USB HID. By these value-added features, SM5700 series makes integration efforts minimized and profit maximized.

### FuzzyScan 3.0 Outstanding Reading Performance
Powered by FuzzyScan Imaging Technology 3.0, SM5700 series provides superior reading performance on most popular 1D, stacked and 2D bar codes. It can also perform exceptional readability on bar code printed on reflective material, and on curved surface. Besides, SM5700 presents outstanding adoption of most real world bar codes, such as damaged, smudged, poorly-printed, and laminated bar codes.

### Useful Features and Functionality
The test mode helps system integrator to identify the most optimal mounting position easily and quickly. SM5700 supports five operation modes, allowing for trigger or triggerless operations. Moreover, it can be triggered remotely through the input of serial command or external sensor. The OK/NG signal output function helps more precise reading control.

cino

# Specifications

## Performance Characteristics

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|---|---|
| Scan Pattern | Area Image |
| Print Contrast | 20% minimum reflectance difference |
| Light Source | Aiming Pattern : 630nm LED<br>Illumination    : 630nm LED |
| Min. Resolution | **SR Model**<br>3.3 mil Code 39<br>7 mil DM<br>**HD Model**<br>2.7 mil Code 39<br>5 mil DM |
| Roll, Pitch, Skew | Roll: 360˚; Pitch: ± 75˚; Skew: ± 65˚ |
| Motion Tolerance | Up to 25 inch/63.5 cm per second |
| Reading Range *1 | **SR Model**<br>5 mil (0.13mm) C39        7.0 – 20.0 (2.8"- 7.9")<br>13 mil (0.33mm) UPC/EAN    5.0 - 41.0 (2.0" - 16.1")<br>10 mil (0.25mm) DM       5.3 - 18.0 (2.1"- 7.1")<br>**HD Model**<br>3 mil (0.07mm) C39        6.0 - 11.0 (2.4" - 4.3")<br>5 mil (0.13mm) C39        5.0 - 14.0 (2.0" - 5.5")<br>13 mil (0.33mm) UPC/EAN    5.0 - 22.5 (2.0" - 8.9")<br>10 mil (0.25mm) DM       3.5 - 14.0 (1.4" - 5.5")<br>10 mil (0.25mm) QR        4.0 - 14.0 (1.6" - 5.5") |
| Operating Modes | Trigger, Alternative, Level, Force, Presentation |
| Host Interfaces | RS232 serial<br>USB HID (USB Keyboard)<br>USB COM port emulation |
| User Interfaces | 3 LEDs for power, Status, OK/NG indications<br>Test button<br>Programmable beeper |
| Configuration Setup | Bar code command, Serial command<br>Windows utility - FuzzyScan PowerTool |
| Data Editing | Condensed DataWizard via bar code command<br>Full-feature DataWizard via FuzzyScan PowerTool |
| Image Capture | Graphic Format : BMP |

## Supported Symbologies

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|---|---|
| 1D Linear Codes | Code 39, Code 39 Full ASCII, Code 32, Code 128,<br>GS1-128, Codabar, Code 11, Code 93,<br>Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5,<br>IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum,<br>Telepen, MSI/Plessey & UK/Plessey ,<br>GS1 DataBar, Linear & Linear Stacked |
| 2D Codes | PDF417, Micro PDF417, Codablock F, Code 16K,<br>Code 49, Composite Codes, DataMatrix, MaxiCode,<br>QR Code, Aztec, MicroQR |
| Postal Codes | Australian Post, US Planet, US Postnet, Japan Post<br>Dutch KIX code, Intelligent Mail, British Post |

## User Environment

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|---|---|
| Operating Temperature | -10 ˚C to 50 ˚C (14 ˚F to 122 ˚F) |
| Storage Temperature | -40 ˚C to 70 ˚C (-40 ˚F to 158 ˚F) |
| Ambient Light Immunity | 0 ~ 100,000 lux |

## Physical & Electrical Characteristics

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|---|---|
| Dimension | 38.0 mm (L) x 33.6 mm (W) x 18.8 mm (H) |
| Weight | 15 g |
| Connector | 15 pin interface connector |
| Mounting | 3 screw holes (ø1.7mm x 3mm in depth) |
| Input Voltage | 5VDC ± 10% |
| Current | Operating : Typical 285 mA @5VDC<br>Standby   : Typical 160 mA @5VDC |

## Safety & Regulatory

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|---|---|
| Safety *2 | LED Eye Safety IEC62471, Exempt Group |
| Environmental | Compliant with RoHS directive |

1. The reading range is measured under Cino's test environmental condition.
2. Class 1M LED product. Do not view directly with optical instruments.