

# Считыватели кода серии RCD

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# Smart Code Readers



- ◎ Built-in million-pixel image sensor combined with proprietary advanced sampling technology and millisecond-level decoding algorithm
- ◎ Convenient operation with one-click parameter adjustment, significantly saving debugging time.
- ◎ Powerful networking function, supporting the combination of 32 code readers
- ◎ The preset multiple sets of algorithms and imaging parameters are cyclically decoded, simultaneously compatible with bright and dark field conditions and scenes with product height differences

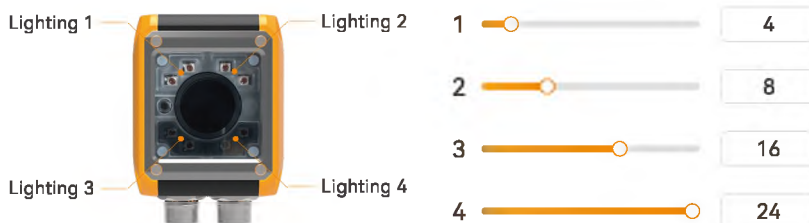
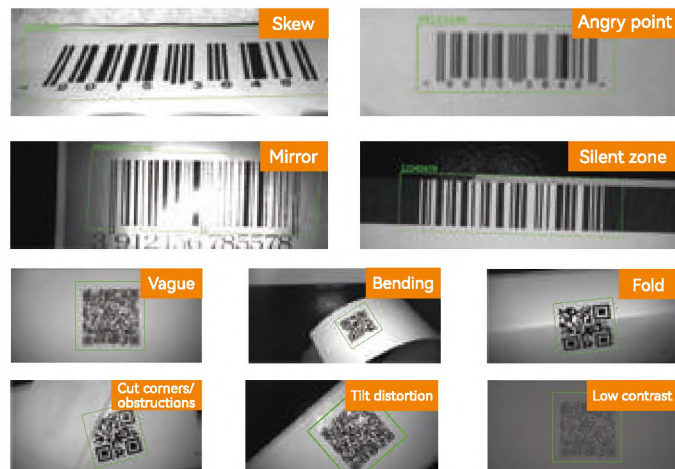
## Smart code reader

RCD-AI100-X series ▶



### Fast Barcode Scanning in Harsh Environments

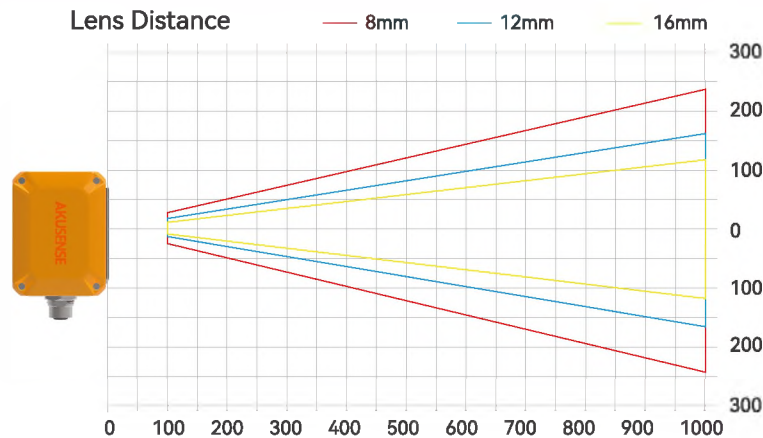
Equipped with high-performance deep learning chips, capable of effectively reading codes in complex conditions such as damaged codes, low contrast, poor printing quality, skewing, noise, mirrored surfaces, quiet zones, blurriness, bending, folding, missing corners/obstructions, etc., with strong robustness



### Highly Flexible Lighting System

Red/White light optional, 4 groups of light sources can be controlled independently, brightness adjustment for 1-24 sections of light sources, providing 16 supplementary lighting schemes.

RCD-AI100-X series



Versatile Working Distance

Offering three different focal length lenses of 8mm, 12mm, and 16mm, supporting automatic mechanical focusing from 100mm to 1000mm, meeting application requirements for various installation spaces

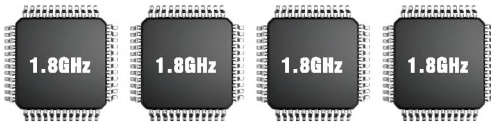
Enabling Ultra-Small Code Reading

Million-pixel image sensor, combined with ME-mind advanced sampling technology and deep learning algorithms, achieves a recognition accuracy of up to 0.06mm, supporting ultra-small code reading



Automatic Polling Function

Pre-set multiple sets of algorithms and imaging parameters for cyclic decoding, simultaneously compatible with bright and dark field conditions and scenes with product height different



Quad-core SMP Processor

|                      |               |
|----------------------|---------------|
| Pixels               | 1280*800pixel |
| Ordinary code reader | 30ms          |
| RCD-AI Series        | 10ms          |

Millisecond-level Decoding Speed

Equipped with a Cortex Quad-core processor, with a single core clock speed of up to 1.8 GHz, achieving ultra-fast positioning of one/two-dimensional codes, increasing decoding speed from the average speed of 30ms of ordinary code readers to 10ms, 3 times faster



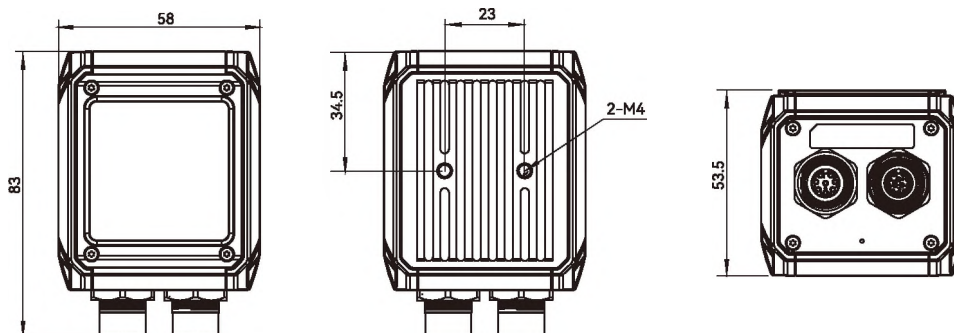
NEW!



|                          |                           |                                                                                                                                                             |                 |                 |
|--------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| Basic Features           | Operating Principle       | CMOS                                                                                                                                                        |                 |                 |
|                          | Shell Style               | Square                                                                                                                                                      |                 |                 |
|                          | Detection Range           | 100~1000mm                                                                                                                                                  |                 |                 |
|                          | Field of View             | Maximum 480mm x 300mm (@1000mm distance, 8mm focal length)                                                                                                  |                 |                 |
|                          | Focal Length              | 8mm                                                                                                                                                         | 12mm            | 16mm            |
|                          | Focus Adjustment Method   | Mechanical focus                                                                                                                                            |                 |                 |
|                          | Resolution                | 1280x800                                                                                                                                                    |                 |                 |
|                          | Light Source              | Non-polarized Red Light/Non-polarized White Light/Polarized Red Light/Polarized White Light                                                                 |                 |                 |
|                          | Code Type                 | One-dimensional Code: Code39, Code93, Code128, EAN-8, EAN-13, Interleaved 2 of 5, UPC, Pharmacode;<br>Two-dimensional Code: QR code, DataMatrix             |                 |                 |
|                          | Color/Black and White     | Black and White                                                                                                                                             |                 |                 |
|                          | Shutter                   | Global                                                                                                                                                      |                 |                 |
|                          | Indicator Light           | Position Indication: 1 green light spot indicates the center area of the scanning position;<br>Status Indication: 5 status LEDs and a buzzer                |                 |                 |
| Electrical data          | Image Sensor Size         | 3μm x 3μm                                                                                                                                                   |                 |                 |
|                          | Target Surface Size       | 1/4"                                                                                                                                                        |                 |                 |
|                          | Maximum Reading Speed     | 60/second                                                                                                                                                   |                 |                 |
|                          | Exposure Time             | 20μs~1sec                                                                                                                                                   |                 |                 |
|                          | Gain                      | 0dB~255dB                                                                                                                                                   |                 |                 |
|                          | Operating Voltage         | 24VDC                                                                                                                                                       |                 |                 |
|                          | Power Consumption         | 15W                                                                                                                                                         |                 |                 |
|                          | Output Type               | Input Control: Two-channel optocoupler isolated inputs, supporting NPN and PNP types;<br>Output Control: Three-channel output control, optocoupler isolated |                 |                 |
|                          | Communication Protocol    | TCP Server, TCP Client, ModBus TCP, ModBus RTU, Profinet, Ethernet/IP, Fins, MELSEC/SLMP, Serial                                                            |                 |                 |
|                          | Communication Interface   | RS232, Ethernet                                                                                                                                             |                 |                 |
| Environmental conditions | Operating Temperature     | 0~45℃                                                                                                                                                       |                 |                 |
|                          | Storage Temperature       | -20~70℃                                                                                                                                                     |                 |                 |
|                          | Humidity                  | 5%~95%RH(non-condensing)                                                                                                                                    |                 |                 |
|                          | Protection Level          | IP67                                                                                                                                                        |                 |                 |
| Mechanical data          | Connection Method         | Cable Connection                                                                                                                                            |                 |                 |
|                          | Dimensions                | 58x53.5x83mm                                                                                                                                                |                 |                 |
|                          | Weight                    | about 220g                                                                                                                                                  |                 |                 |
|                          | Accessories               | M12-12PIN-3M (3m high-flex), M12-8PIN-3M (3m high-flex), L-shaped mounting bracket, 24V power adapter (optional), screw kit                                 |                 |                 |
| Model                    | Non-polarized Red Light   | RCD-AI100-X08R                                                                                                                                              | RCD-AI100-X12R  | RCD-AI100-X16R  |
|                          | Non-polarized White Light | RCD-AI100-X08W                                                                                                                                              | RCD-AI100-X12W  | RCD-AI100-X16W  |
|                          | Polarized Red Light       | RCD-AI100-X08RD                                                                                                                                             | RCD-AI100-X12RD | RCD-AI100-X16RD |
|                          | Polarized White Light     | RCD-AI100-X08WD                                                                                                                                             | RCD-AI100-X12WD | RCD-AI100-X16WD |

### Dimensions

Unit: mm





# Intelligent code reader

## RCD-AI230-X Series



**NEW!**

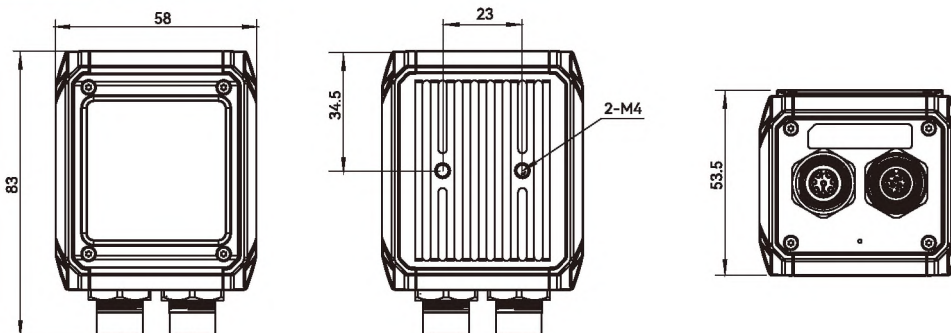
CE



|                          |                           |                                                                                                                                                    |                 |                 |
|--------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| Basic Features           | Operating Principle       | CMOS                                                                                                                                               |                 |                 |
|                          | Shell Style               | Square                                                                                                                                             |                 |                 |
|                          | Detection Range           | 100~1000mm                                                                                                                                         |                 |                 |
|                          | Field of View             | Maximum 480mm x 300mm (@1000mm distance, 8mm focal length)                                                                                         |                 |                 |
|                          | Focal Length              | 8mm                                                                                                                                                | 12mm            | 16mm            |
|                          | Focus Adjustment Method   | Mechanical focus                                                                                                                                   |                 |                 |
|                          | Resolution                | 1920×1200                                                                                                                                          |                 |                 |
|                          | Light Source              | Non-polarized Red Light/Non-polarized White Light/Polarized Red Light/Polarized White Light                                                        |                 |                 |
|                          | Code Type                 | One-dimensional Code: Code 39, Code 93, Code 128, EAN-8, EAN-13, Interleaved 2 of 5, UPC, Pharmacode;<br>Two-dimensional Code: QR code, DataMatrix |                 |                 |
|                          | Color/Black and White     | Black and White                                                                                                                                    |                 |                 |
|                          | Shutter                   | Global                                                                                                                                             |                 |                 |
|                          | Indicator Light           | 1 green light spot indicates the center area of the scanning position; Status Indication: 5 status LEDs and and buzzer                             |                 |                 |
| Electrical data          | Image Sensor Size         | 3μm×3μm                                                                                                                                            |                 |                 |
|                          | Target Surface Size       | 1/2.6"                                                                                                                                             |                 |                 |
|                          | Maximum Reading Speed     | 60/second                                                                                                                                          |                 |                 |
|                          | Exposure Time             | 20us~1sec                                                                                                                                          |                 |                 |
|                          | Gain                      | 0dB~255dB                                                                                                                                          |                 |                 |
|                          | Operating Voltage         | 24V DC                                                                                                                                             |                 |                 |
|                          | Power Consumption         | 15W                                                                                                                                                |                 |                 |
|                          | Output Type               | Two-channel input control, optocoupler isolated - supports NPN, PNP types; Three-channel output control, optocoupler isolated                      |                 |                 |
| Environmental conditions | Communication Protocol    | TCP Server、TCP Client、ModBus TCP、ModBus RTU、Profinet、Ethernet/IP、Fins、MELSEC/SLMP、Serial                                                           |                 |                 |
|                          | Communication Interface   | RS232、Ethernet                                                                                                                                     |                 |                 |
|                          | Operating Temperature     | 0~45℃                                                                                                                                              |                 |                 |
|                          | Storage Temperature       | -20~70℃                                                                                                                                            |                 |                 |
| Mechanical data          | Humidity                  | 5%~95%RH(non-condensing)                                                                                                                           |                 |                 |
|                          | Protection Level          | IP67                                                                                                                                               |                 |                 |
|                          | Connection Method         | Cable Connection                                                                                                                                   |                 |                 |
|                          | Dimensions                | 58x53.5x83mm                                                                                                                                       |                 |                 |
| Model                    | Weight                    | about 220g                                                                                                                                         |                 |                 |
|                          | Accessories               | M12-12PIN-3M (3m high-flex), M12-8PIN-3M (3m high-flex), L-shaped mounting bracket, 24V power adapter (optional), screw kit                        |                 |                 |
|                          | Non-polarized Red Light   | RCD-AI230-X08R                                                                                                                                     | RCD-AI230-X12R  | RCD-AI230-X16R  |
|                          | Non-polarized White Light | RCD-AI230-X08W                                                                                                                                     | RCD-AI230-X12W  | RCD-AI230-X16W  |
|                          | Polarized Red Light       | RCD-AI230-X08RD                                                                                                                                    | RCD-AI230-X12RD | RCD-AI230-X16RD |
|                          | Polarized White Light     | RCD-AI230-X08WD                                                                                                                                    | RCD-AI230-X12WD | RCD-AI230-X16WD |

### Dimensions

Unit: mm



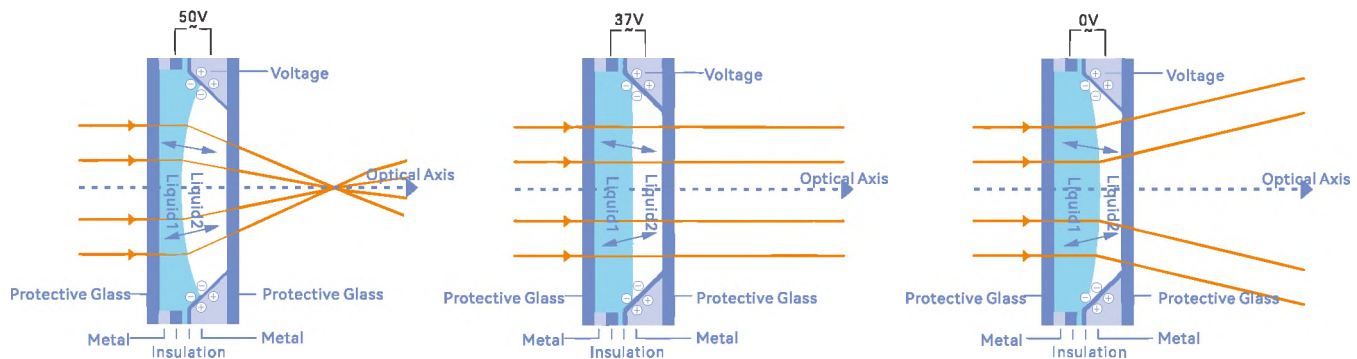
## Smart code reader

RCD-AI100-S series ▶



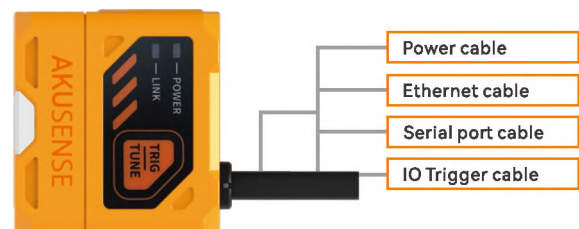
### Liquid Lens Autofocus Technology

Equipped with liquid lens zoom lens, focusing can be completed with just a few sampled images, offering the advantages of fast, accurate, and clear focusing



### Small Size, Easy Installation

The body size is only 47mm x 25mm x 43mm, making it installable even in tight spaces

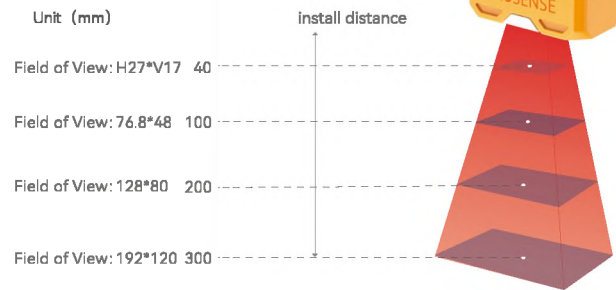


### Integrated cable for easy deployment

Integrate power line, Ethernet cable, serial port cable, and IO trigger cable into one cable, providing users with a convenient deployment method

### Flexible Working Distance

Supports a working distance of 40mm to 300mm, covering mainstream code reading applications on the market



### Supports barcode reading for different coding processes

Hollow Dot Matrix Code, Hole Array Code, Curved DPM Code, Pin Collision DPM Code, Dot Matrix Code



Hollow Dot Matrix Code



Hole Array Code



Curved DPM Code



Pin Collision DPM Code





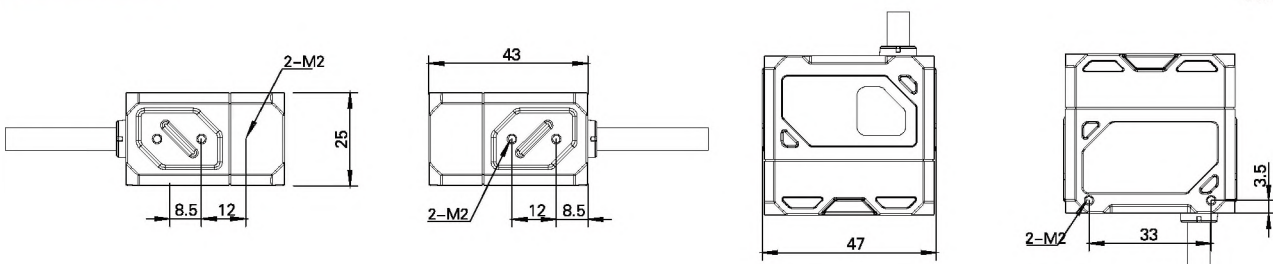
CE



|                          |                           |                                                                                                                                  |                  |                  |
|--------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|
| Basic Features           | Working Principle         | CMOS                                                                                                                             |                  |                  |
|                          | Housing                   | Square                                                                                                                           |                  |                  |
|                          | Detection Distance        | 40~300mm                                                                                                                         | 30~300mm         | 100~400mm        |
|                          | Field of View             | Maximum 192mm*120mm (@300mm distance)                                                                                            |                  |                  |
|                          | Focal Length              | 6mm                                                                                                                              |                  | 16mm             |
|                          | Focusing Method           | Liquid focusing                                                                                                                  | Manual focusing  | Liquid focusing  |
|                          | Resolution                | 1280×800                                                                                                                         |                  |                  |
|                          | Light Source              | Red/White light available                                                                                                        |                  |                  |
|                          | Barcode Types             | 1D: Code 39、Code93、Code128、EAN-8、EAN-13、Interleaved 2 of 5、UPC、Pharmacode；2D: QR code, DataMatrix                                |                  |                  |
|                          | Color/Monochrome          | Monochrome                                                                                                                       |                  |                  |
|                          | Shutter                   | Global                                                                                                                           |                  |                  |
|                          | Indicator                 | Position Indication: 2 green light spots indicate the scanning position center area; Status Indication: 3 status LEDs and buzzer |                  |                  |
| Electrical data          | Image Native Resolution   | 3μm×3μm                                                                                                                          |                  |                  |
|                          | Target Surface Dimensions | 1/4"                                                                                                                             |                  |                  |
|                          | Maximum Reading Speed     | 60/second                                                                                                                        |                  |                  |
|                          | Exposure Time             | 20μs~1sec                                                                                                                        |                  |                  |
|                          | Gain                      | 0dB~255dB                                                                                                                        |                  |                  |
|                          | Operating Voltage         | 24 VDC                                                                                                                           |                  |                  |
|                          | Power Consumption         | 5W                                                                                                                               |                  |                  |
|                          | Output Types              | Two channels of optically isolated inputs, supporting NPN and PNP types; Output Control: Three channels of non-isolated outputs  |                  |                  |
|                          | Communication Protocol    | TCP Server, TCP Client、ModBus TCP、ModBus RTU、Profinet、Ethernet/IP, MELSEC/SLMP、Fins、Serial                                       |                  |                  |
|                          | Communication Interface   | RS232, Ethernet                                                                                                                  |                  |                  |
| Environmental conditions | Operating Temperature     | 0~45℃                                                                                                                            |                  |                  |
|                          | Storage Temperature       | -20~70℃                                                                                                                          |                  |                  |
|                          | Humidity                  | 5% to 95% RH (non-condensing)                                                                                                    |                  |                  |
|                          | Protection Rating         | IP67                                                                                                                             |                  |                  |
| Mechanical data          | Connection Method         | Cable Connection                                                                                                                 |                  |                  |
|                          | Dimension                 | 47x25x43mm                                                                                                                       |                  |                  |
|                          | Weight                    | about 100g                                                                                                                       |                  |                  |
|                          | Accessories: Cable        | M12-17PIN connection cable; Power Supply: 24V power adapter (optional); L-shaped mounting bracket + screws                       |                  |                  |
| Model                    | Non-Polarized Red Light   | RCD-AI100-SQ06R                                                                                                                  | RCD-AI100-SH06R  | RCD-AI100-SQ16R  |
|                          | Non-Polarized White Light | RCD-AI100-SQ06W                                                                                                                  | RCD-AI100-SH06W  | RCD-AI100-SQ16W  |
|                          | Polarized Red Light       | RCD-AI100-SQ06RD                                                                                                                 | RCD-AI100-SH06RD | RCD-AI100-SQ16RD |
|                          | Polarized White Light     | RCD-AI100-SQ06WD                                                                                                                 | RCD-AI100-SH06WD | RCD-AI100-SQ16WD |

## Dimensions

Unit: mm



# Intelligent code reader

## RCD-AI100-F(HF) Series



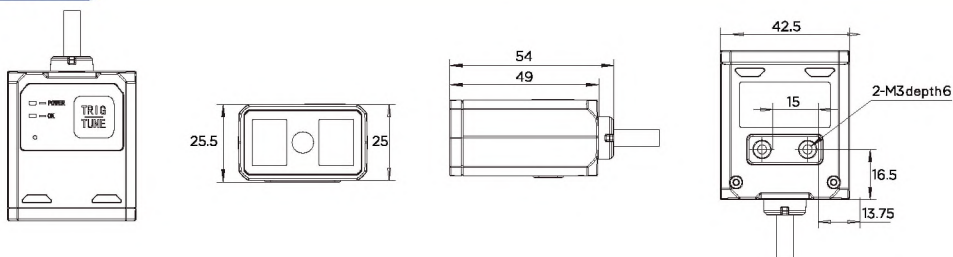
NEW!

CE

|                          |                           |                                                                                                                                                                                                                                                                                                                |                                                                                                                                  |
|--------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Basic Features           | Operating Principle       | CMOS                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |
|                          | Shell Style               | Square                                                                                                                                                                                                                                                                                                         |                                                                                                                                  |
|                          | Detection Range           | Fixed Focus: 180mm<br>Code 39(5 mil):85~220 mm, Code 128(10 mil):51~415 mm<br>QR Code(15 mil):42~313 mm, Data Matrix(10 mil):60~150 mm                                                                                                                                                                         | Fixed Focus: 50mm<br>Code 39(3 mil):30~60 mm, Code 128(10 mil):40~122 mm<br>QR Code(5 mil):30~80 mm, Data Matrix(5 mil):35~74 mm |
|                          | Field of View             | -                                                                                                                                                                                                                                                                                                              |                                                                                                                                  |
|                          | Focal Length              | -                                                                                                                                                                                                                                                                                                              |                                                                                                                                  |
|                          | Focus Adjustment Method   | Fixed Focus                                                                                                                                                                                                                                                                                                    |                                                                                                                                  |
|                          | Resolution                | 1280x800                                                                                                                                                                                                                                                                                                       |                                                                                                                                  |
|                          | Light Source              | Red/White Light Source Optional                                                                                                                                                                                                                                                                                |                                                                                                                                  |
|                          | Code Type                 | One-dimensional codes: Code39, Code93, Code128, EAN-8, EAN-13, Interleaved 2 of 5, UPC, Pharmacode;<br>Two-dimensional codes: QR code, DataMatrix                                                                                                                                                              |                                                                                                                                  |
|                          | Color/Black and White     | Black and White                                                                                                                                                                                                                                                                                                |                                                                                                                                  |
|                          | Shutter                   | Global                                                                                                                                                                                                                                                                                                         |                                                                                                                                  |
| Electrical data          | Indicator Light           | 2 green light spots indicate the central area of the scanning position, 2 status LEDs (code reading status, power status) and buzzer                                                                                                                                                                           |                                                                                                                                  |
|                          | Image Sensor Size         | 3μm×3μm                                                                                                                                                                                                                                                                                                        |                                                                                                                                  |
|                          | Target Surface Size       | -                                                                                                                                                                                                                                                                                                              |                                                                                                                                  |
|                          | Maximum Reading Speed     | 60/second                                                                                                                                                                                                                                                                                                      |                                                                                                                                  |
|                          | Exposure Time             | 20us~100000us                                                                                                                                                                                                                                                                                                  |                                                                                                                                  |
|                          | Gain                      | 0dB~255dB                                                                                                                                                                                                                                                                                                      |                                                                                                                                  |
|                          | Operating Voltage         | 24 VDC/USB5V                                                                                                                                                                                                                                                                                                   |                                                                                                                                  |
|                          | Power Consumption         | 5W                                                                                                                                                                                                                                                                                                             |                                                                                                                                  |
|                          | Output Type               | Two non-isolated inputs; two non-isolated outputs                                                                                                                                                                                                                                                              |                                                                                                                                  |
|                          | Communication Protocol    | TCP Server, TCP Client, ModBus TCP, ModBus RTU, Profinet, Ethernet/IP, MELSEC/SLMP, Fins, Serial                                                                                                                                                                                                               |                                                                                                                                  |
| Environmental conditions | Communication Interface   | RS232、RJ45、USB                                                                                                                                                                                                                                                                                                 |                                                                                                                                  |
|                          | Operating Temperature     | 0~45℃                                                                                                                                                                                                                                                                                                          |                                                                                                                                  |
|                          | Storage Temperature       | -20~70℃                                                                                                                                                                                                                                                                                                        |                                                                                                                                  |
|                          | Humidity                  | 5%~95%RH(Non-Condensing)                                                                                                                                                                                                                                                                                       |                                                                                                                                  |
| Mechanical data          | Protection Level          | IP54                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |
|                          | Connection Method         | Two types of wires: 1. Connect to the smart code reader through DB15 Puruo wire, which outputs a total of 3 physical interfaces: network port, serial port, and IO port;<br>2. Connect to the smart code reader through DB15 Puruo cable, which outputs a total of 2 physical interfaces: USB port and IO port |                                                                                                                                  |
|                          | Dimensions                | 49x25.5x42.5mm                                                                                                                                                                                                                                                                                                 |                                                                                                                                  |
|                          | Weight                    | about 80g                                                                                                                                                                                                                                                                                                      |                                                                                                                                  |
|                          | Accessories               | HDB15P-M-ETH-3M (Network port 3 meters Plug) or HDB15P-M-USB-3M (USB port 3 meters Plug) L-shaped mounting bracket, screw kit                                                                                                                                                                                  |                                                                                                                                  |
| Model                    | Non-polarized Red Light   | RCD-AI100-F06R                                                                                                                                                                                                                                                                                                 | RCD-AI100-HF06R                                                                                                                  |
|                          | Non-polarized White Light | RCD-AI100-F06W                                                                                                                                                                                                                                                                                                 | RCD-AI100-HF06W                                                                                                                  |
|                          | Polarized Red Light       | RCD-AI100-F06RD                                                                                                                                                                                                                                                                                                | RCD-AI100-HF06RD                                                                                                                 |
|                          | Polarized White Light     | RCD-AI100-F06WD                                                                                                                                                                                                                                                                                                | RCD-AI100-HF06WD                                                                                                                 |

### Dimensions

Unit: mm





NEW!

CE



NEW!

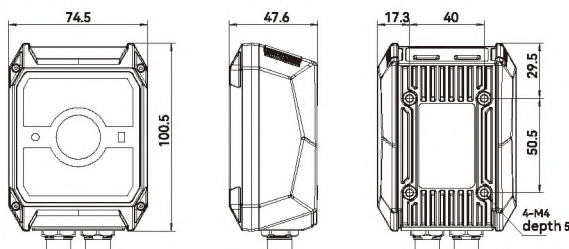
CE

|                          |                                        |                                                                                                                                                 |                 |                 |                 |                 |
|--------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Basic Features           | Operating Principle                    | CMOS                                                                                                                                            |                 |                 |                 |                 |
|                          | Shell Style                            | Square                                                                                                                                          |                 |                 |                 |                 |
|                          | Detection Range                        | 100-2000mm(@8/12/16mm)200-2000mm(@25mm)                                                                                                         |                 |                 |                 |                 |
|                          | Field of View                          | -                                                                                                                                               |                 |                 |                 |                 |
|                          | Focal Length                           | 8mm                                                                                                                                             | 12mm            | 16mm            | 25mm            | 16mm            |
|                          | Focus Adjustment Method                | Mechanical focus                                                                                                                                |                 |                 |                 | Liquid focus    |
|                          | Resolution                             | 2448x2048                                                                                                                                       |                 |                 |                 |                 |
|                          | Light Source                           | Red/White Light Source Optional                                                                                                                 |                 |                 |                 |                 |
|                          | Code Type                              | One-dimensional codes: Code39, Code93, Code128, EAN-8, EAN-13, Interleaved 2of5, UPC, Pharmacode;<br>Two-dimensional codes: QR code, DataMatrix |                 |                 |                 |                 |
|                          | Color/Black and White                  | Black and White                                                                                                                                 |                 |                 |                 |                 |
|                          | Shutter                                | Global                                                                                                                                          |                 |                 |                 |                 |
|                          | Indicator Light                        | 1 green light point indicates the central area of the scanning position; 1 distance sensor for auxiliary focus, 5 status LEDs and buzzers       |                 |                 |                 |                 |
| Electrical data          | Image Sensor Size                      | 2.74μmx2.74μm                                                                                                                                   |                 |                 |                 |                 |
|                          | Target Surface Size                    | 1/1.8"                                                                                                                                          |                 |                 |                 |                 |
|                          | Maximum Reading Speed                  | 30/second                                                                                                                                       |                 |                 |                 |                 |
|                          | Exposure Time                          | 20us~1sec                                                                                                                                       |                 |                 |                 |                 |
|                          | Gain                                   | 0dB~255dB                                                                                                                                       |                 |                 |                 |                 |
|                          | Operating Voltage                      | 24VDC                                                                                                                                           |                 |                 |                 |                 |
|                          | Power Consumption                      | 15W                                                                                                                                             |                 |                 |                 |                 |
|                          | Output Type                            | Two-channel input control, optocoupler isolation - supports NPN, PNP type; three-channel output control, optocoupler isolation                  |                 |                 |                 |                 |
|                          | Communication Protocol                 | TCP Server, TCP Client, ModBus TCP, ModBus RTU, Profinet, Ethernet/IP, MELSEC/SLMP, Fins, Serial                                                |                 |                 |                 |                 |
| Environmental conditions | Communication Interface                | RS232, Ethernet                                                                                                                                 |                 |                 |                 |                 |
|                          | Operating Temperature                  | 0~45℃                                                                                                                                           |                 |                 |                 |                 |
|                          | Storage Temperature                    | -20~70℃                                                                                                                                         |                 |                 |                 |                 |
|                          | Humidity                               | 5% to 95% RH (non-condensing)                                                                                                                   |                 |                 |                 |                 |
| Mechanical data          | Protection Level                       | IP67                                                                                                                                            |                 |                 |                 |                 |
|                          | Connection Method                      | Cable Connection                                                                                                                                |                 |                 |                 |                 |
|                          | Dimensions                             | 74.5x100.5x47.6mm 134.5x108.5x65.3mm ( High power )                                                                                             |                 |                 |                 |                 |
|                          | Weight                                 | Standard light source: about 550g; high-power light source: about 750g                                                                          |                 |                 |                 |                 |
| Model                    | Accessories                            | M12-12PIN-3M (3m high-flex), M12-8PIN-3M (3m high-flex), L-shaped mounting bracket, 24V power adapter (optional), screw kit                     |                 |                 |                 |                 |
|                          | Non-polarized Red Light                | RCD-AI500-X08R                                                                                                                                  | RCD-AI500-X12R  | RCD-AI500-X16R  | RCD-AI500-X25R  | RCD-AI500-Q16R  |
|                          | Non-polarized White Light              | RCD-AI500-X08W                                                                                                                                  | RCD-AI500-X12W  | RCD-AI500-X16W  | RCD-AI500-X25W  | RCD-AI500-Q16W  |
|                          | Polarized Red Light                    | RCD-AI500-X08RD                                                                                                                                 | RCD-AI500-X12RD | RCD-AI500-X16RD | RCD-AI500-X25RD | RCD-AI500-Q16RD |
|                          | Polarized White Light                  | RCD-AI500-X08WD                                                                                                                                 | RCD-AI500-X12WD | RCD-AI500-X16WD | RCD-AI500-X25WD | RCD-AI500-Q16WD |
|                          | Non-Polarized red light (High power)   | RCD-AI500-X08RH                                                                                                                                 | RCD-AI500-X12RH | RCD-AI500-X16RH | RCD-AI500-X25RH | RCD-AI500-Q16RH |
|                          | Non-polarized white light (High power) | RCD-AI500-X08WH                                                                                                                                 | RCD-AI500-X12WH | RCD-AI500-X16WH | RCD-AI500-X25WH | RCD-AI500-Q16WH |

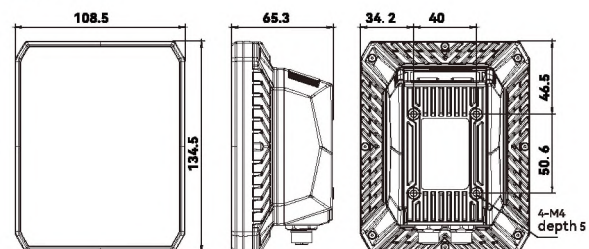
### Dimensions

Unit: mm

#### Standard



#### High Power



# Intelligent code reader

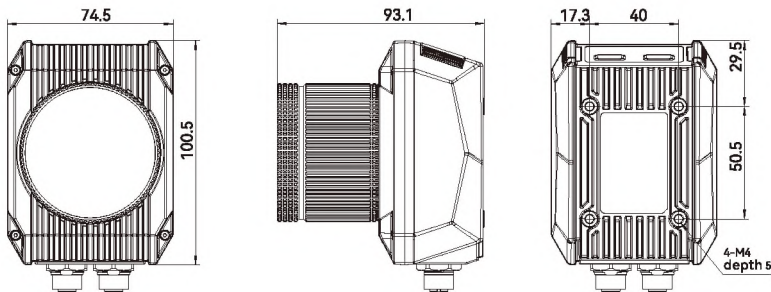
## RCD-AI2000 Series



|                          |                         |                                                                                                                                                  |
|--------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Features           | Operating Principle     | CMOS                                                                                                                                             |
|                          | Shell Style             | Square                                                                                                                                           |
|                          | Detection Range         | Based on lens specifications                                                                                                                     |
|                          | Field of View           | -                                                                                                                                                |
|                          | Focal Length            | -                                                                                                                                                |
|                          | Focus Adjustment Method | C port                                                                                                                                           |
|                          | Resolution              | 5472x3648                                                                                                                                        |
|                          | Light Source            | External light source                                                                                                                            |
|                          | Code Type               | One-dimensional code: Code39, Code93, Code128, EAN-8, EAN-13, Interleaved 2 of 5, UPC, Pharmacode ;<br>Two-dimensional code: QR code, DataMatrix |
|                          | Color/Black and White   | Black and White                                                                                                                                  |
|                          | Shutter                 | Rolling shutter                                                                                                                                  |
|                          | Indicator Light         | 1 green light point indicates the center area of the scanning position; 5 status LEDs and buzzers                                                |
| Electrical data          | Image Sensor Size       | 2.4μm x 2.4μm                                                                                                                                    |
|                          | Target Surface Size     | 1/1.8"                                                                                                                                           |
|                          | Maximum Reading Speed   | 15/second                                                                                                                                        |
|                          | Exposure Time           | 20μs~1 sec                                                                                                                                       |
|                          | Gain                    | -                                                                                                                                                |
|                          | Operating Voltage       | 24V DC                                                                                                                                           |
|                          | Power Consumption       | 15W                                                                                                                                              |
|                          | Output Type             | Two-channel input control, optocoupler isolation - supports NPN, PNP type; three-channel output control, optocoupler isolation                   |
| Environmental conditions | Communication Protocol  | TCP Server, TCP Client, ModBus TCP, ModBus RTU, Profinet, Ethernet/IP, MELSEC/SLMP, Fins, Serial                                                 |
|                          | Communication Interface | RS232, Ethernet                                                                                                                                  |
|                          | Operating Temperature   | 0~45℃                                                                                                                                            |
|                          | Storage Temperature     | -20~70℃                                                                                                                                          |
|                          | Humidity                | 5% to 95% RH (non-condensing)                                                                                                                    |
| Mechanical data          | Protection Level        | IP67                                                                                                                                             |
|                          | Connection Method       | Cable Connection                                                                                                                                 |
|                          | Dimensions              | 74.5x93.1x100.5mm                                                                                                                                |
|                          | Weight                  | about 450g                                                                                                                                       |
|                          | Accessories             | M12-12PIN-3M (3m high-flex), M12-8PIN-3M (3m high-flex), L-shaped mounting bracket, 24V power adapter (optional), screw kit                      |
|                          | Model                   | RCD-AI2000-HC                                                                                                                                    |

### Dimensions

Unit: mm



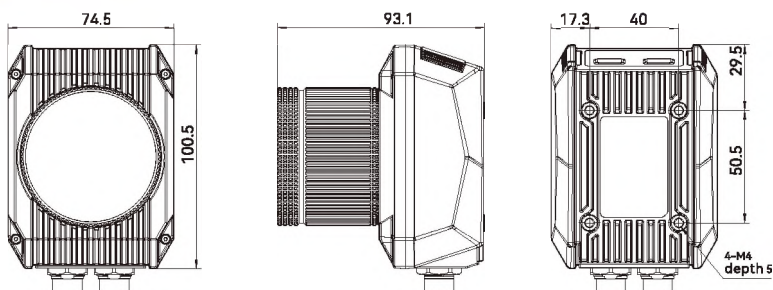




|                          |                         |                                                                                                                                                  |
|--------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Features           | Operating Principle     | CMOS                                                                                                                                             |
|                          | Shell Style             | Square                                                                                                                                           |
|                          | Detection Range         | Based on lens specifications                                                                                                                     |
|                          | Field of View           | -                                                                                                                                                |
|                          | Focal Length            | -                                                                                                                                                |
|                          | Focus Adjustment Method | C port                                                                                                                                           |
|                          | Resolution              | 2448x2048                                                                                                                                        |
|                          | Light Source            | External light source                                                                                                                            |
|                          | Code Type               | One-dimensional code: Code39, Code93, Code128, EAN-8, EAN-13, Interleaved 2 of 5, UPC, Pharmacode ;<br>Two-dimensional code: QR code, DataMatrix |
|                          | Color/Black and White   | Black and White                                                                                                                                  |
|                          | Shutter                 | Rolling shutter                                                                                                                                  |
|                          | Indicator Light         | 1 green light point indicates the center area of the scanning position; 5 status LEDs and buzzers                                                |
| Electrical data          | Image Sensor Size       | 2.74μm x 2.74μm                                                                                                                                  |
|                          | Target Surface Size     | 1/1.8"                                                                                                                                           |
|                          | Maximum Reading Speed   | 30/second                                                                                                                                        |
|                          | Exposure Time           | 20us~1sec                                                                                                                                        |
|                          | Gain                    | 0dB~255dB                                                                                                                                        |
|                          | Operating Voltage       | 24VDC                                                                                                                                            |
|                          | Power Consumption       | 15W                                                                                                                                              |
|                          | Output Type             | Two-channel input control, optocoupler isolation - supports NPN, PNP type; three-channel output control, optocoupler isolation                   |
| Environmental conditions | Communication Protocol  | TCP Server, TCP Client, ModBus TCP, ModBus RTU, Profinet, Ethernet/IP, MELSEC/SLMP, Fins, Serial                                                 |
|                          | Communication Interface | RS232, Ethernet                                                                                                                                  |
|                          | Operating Temperature   | 0~45℃                                                                                                                                            |
|                          | Storage Temperature     | -20~70℃                                                                                                                                          |
|                          | Humidity                | 5% to 95% RH (non-condensing)                                                                                                                    |
| Mechanical data          | Protection Level        | IP67                                                                                                                                             |
|                          | Connection Method       | Cable Connection                                                                                                                                 |
|                          | Dimensions              | 74.5x100.5x93.1mm                                                                                                                                |
|                          | Weight                  | about 450g                                                                                                                                       |
|                          | Accessories             | M12-12PIN-3M (3m high-flex), M12-8PIN-3M (3m high-flex), L-shaped mounting bracket, 24V power adapter (optional), screw kit                      |
|                          | Model                   | <b>RCD-AI500-C</b>                                                                                                                               |

## Dimensions

Unit: mm





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