

IN-SIGHT MICRO 8000 SERIES VISION SYSTEMS

The In-Sight® Micro 8000 series, a new family of ultra-compact, standalone smart camera vision systems, delivers industry-leading vision tool performance at PC speeds, all in the form factor of a traditional GigE Vision® camera.



- World's smallest, full line, standalone vision system available in VGA, 1MP, 2MP and 5MP resolutions
- Powerful vision tool library including new PatMax RedLine™
- Step by step application setup with EasyBuilder, and flexibility of added control with spreadsheet and scripting
- High Speed communication with Gigabit Ethernet
- Fast acquisition VGA, 1MP and 2MP cameras

Compact vision system fits just about anywhere

In-Sight Micro 8000 series compresses an entire stand-alone vision system into an amazingly small package. Its compact size, together with Power over Ethernet (PoE) to minimize cabling makes the In-Sight 8000 vision system family ideal for integrating into tight spaces on robots and hard-to-reach machinery anywhere on the production line. From high acquisition speed VGA to high resolution 5MP system, the 8000 delivers the resolution and speed you need for your application, in a package the size of an image capture only camera.

PatMax, completely reinvented

PatMax RedLine was designed with one goal in mind: blazing fast pattern matching. In typical applications, PatMax RedLine runs 4 to 7 times faster than PatMax – or faster! – with no loss of search accuracy or robustness. Together with PatMax RedLine, the 8000 series can reduce cycle times and increase throughput without compromising inspection accuracy.





SPECIFICATIONS

| Model | In-Sight 8400/8200 | In-Sight 8401 | In-Sight 8402 | In-Sight 8405 |
|--|---|---------------|---------------|--|
| GUI Interface | Spreadsheet and EasyBuilder | | | |
| Firmware | In-Sight Explorer 5.1.1 | | | |
| Job/Program Memory | 512 MB non-volatile flash memory (unlimited storage via remote network device) | | | |
| Image Processing Memory | 512 MB SDRAM | | | |
| Sensor Type | 1/1.8 inch CMOS, global-shutter | | | 1/2.5 inch CMOS, rolling-shutter |
| Sensor Properties | 9mm diagonal, 4.5 x 4.5 μ m square | | | 7.13 mm diagonal, 2.2 x 2.2 μ m square |
| Maximum Resolution (pixels) ¹ | 640 x 480 | 1280 x 1024 | 1600 x 1200 | 2592 x 1944 |
| Acquisition Rate ² | 200/60 | 70 | 53 | 10 |
| Lens Type | C-Mount | | | |
| Trigger | 1 opto-isolated, acquisition trigger input. Remote software commands via Ethernet. | | | |
| Discrete Inputs | Dedicated trigger input only | | | |
| Discrete Outputs | 2 opto-isolated, NPN/PNP high-speed output lines | | | |
| Status LEDs | Network status, 2 user-configurable | | | |
| Network Communication | 10/100/1000 BaseT | | | |
| Power | Class 2 Power over Ethernet (PoE) device | | | |
| Power Type | PoE Type A and Type B | | | |
| Power Consumption | 6.49 W maximum per Class 2 PoE | | | |
| Material | Die-cast zinc housing | | | |
| Mounting | Four M3 threaded mounting holes (1/4-20 and M6 mounting holes available with mounting block accessory: BKT-IS8K-01) | | | |
| Dimensions ³ | In-Sight 8400/8200/8401/8402 are: 31mm x 31mm x 75mm In-Sight 8405 is: 31mm x 31mm x 71mm | | | |
| Connector type | M12 for PoE/Communication; M8 for IO | | | RJ45 (Locking) for PoE/communication; M8 for IO |
| IP Rating | IP40 | | | IP30 |

¹ The number of image sensor rows are configurable and can be set within the In-Sight Explorer software. Decreasing the number of rows will increase the number of frames per second acquired by the vision system. Refer to the AcquireImage topic in the In-Sight® Explorer Help file for more information.

² Maximum frames per second is job-dependent, based on the minimum exposure for a full image frame capture using the dedicated acquisition trigger, and assumes there is no user interface connection to the vision system.

³Including connector housing

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