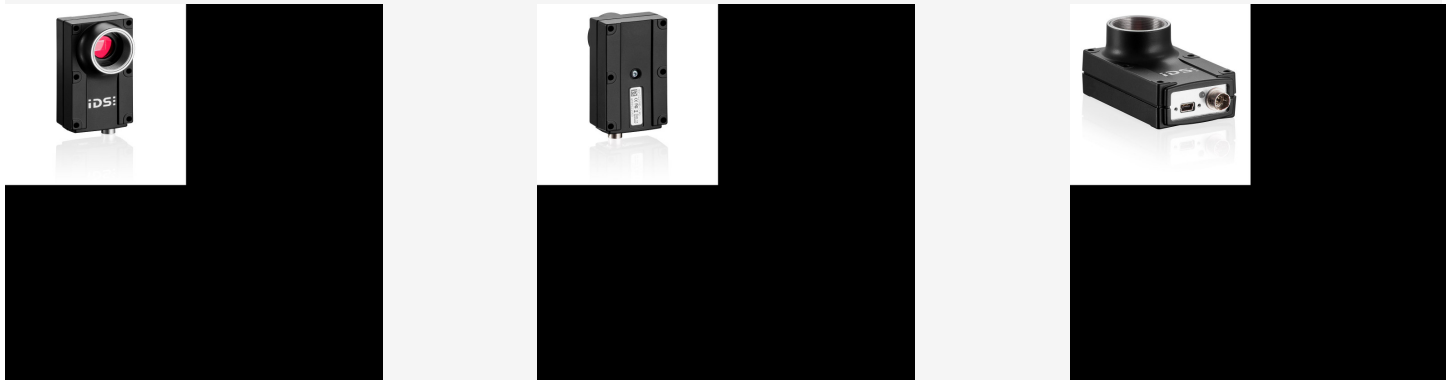
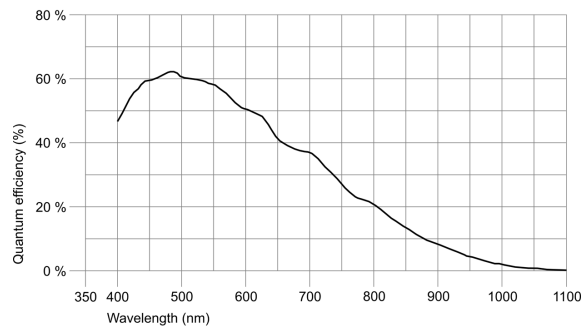


Discontinued  
The model has been discontinued.



Specification

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Sensor                                  |                                        |
| Sensor type                             | CMOS Mono                              |
| Shutter                                 | Rolling shutter / Global Start Shutter |
| Sensor characteristic                   | Linear                                 |
| Readout mode                            | Progressive scan                       |
| Pixel Class                             | 5 MP                                   |
| Resolution                              | 4.92 Mpix                              |
| Resolution (h x v)                      | 2560 x 1920 Pixel                      |
| Aspect ratio                            | 4:3                                    |
| ADC                                     | 12 bit                                 |
| Color depth (camera)                    | 8 bit                                  |
| Optical sensor class                    | 1/2.5"                                 |
| Optical Size                            | 5.632 mm x 4.224 mm                    |
| Optical sensor diagonal                 | 7.04 mm (1/2.27")                      |
| Pixel size                              | 2.2 µm                                 |
| Manufacturer                            | Onsemi                                 |
| Sensor Model                            | MT9P031STM                             |
| Gain (master/RGB)                       | 30x/-                                  |
| AOI horizontal                          | increased frame rate                   |
| AOI vertical                            | increased frame rate                   |
| AOI image width / step width            | 32 / 4                                 |
| AOI image height / step width           | 4 / 2                                  |
| AOI position grid (horizontal/vertical) | 4 / 2                                  |
| Binning horizontal                      | increased frame rate                   |
| Binning vertical                        | increased frame rate                   |
| Binning method                          | Color                                  |
| Binning factor                          | 2 / 3 / 4 / 6                          |
| Subsampling horizontal                  | increased frame rate                   |
| Subsampling vertical                    | increased frame rate                   |
| Subsampling method                      | Color                                  |
| Subsampling factor                      | 2, 3, 4, 5, 6                          |



## Model

|                                   |                    |
|-----------------------------------|--------------------|
| Pixel clock range                 | 5 MHz - 43 MHz     |
| Frame rate freerun mode           | 6.3 fps            |
| Frame rate trigger (maximum)      | 6.4 fps            |
| Exposure time (minimum - maximum) | 0.075 ms - 2745 ms |
| Power consumption                 | 0.5 W - 0.9 W      |

## Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.

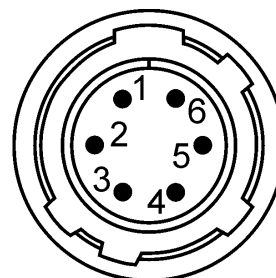
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 %                     |

## Connectors

|                     |                                       |
|---------------------|---------------------------------------|
| Interface connector | USB 2.0 mini-B, screwable             |
| I/O connector       | 6-pin Hirose connector (HR10A-7R-6PB) |
| Power supply        | USB cable                             |

## Pin assignment I/O connector

|   |                                    |
|---|------------------------------------|
| 1 | Ground (GND)                       |
| 2 | USB Power supply (VCC) 5 V         |
| 3 | Trigger input with optocoupler (-) |
| 4 | Trigger input with optocoupler (+) |
| 5 | Flash output with optocoupler (+)  |
| 6 | Flash output with optocoupler (-)  |



Camera rear view

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 74.6 mm x 44.0 mm x 33.6 mm |
| Mass             | 174 g                       |

