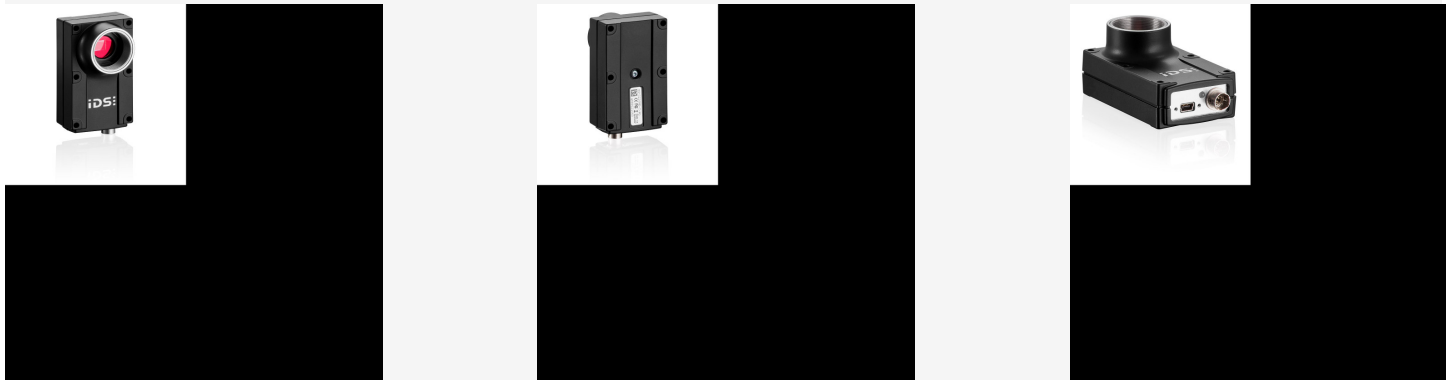


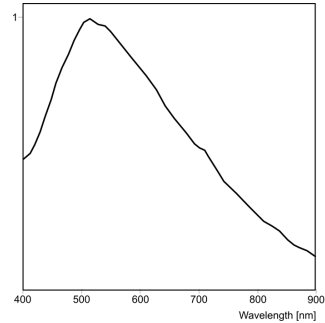
Discontinued  
The model has been discontinued.



Specification

Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CCD Mono             |
| Shutter                                 | Global Shutter       |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 0.3 MP               |
| Resolution                              | 0.31 Mpix            |
| Resolution (h x v)                      | 640 x 480 Pixel      |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/3"                 |
| Optical Size                            | 4.736 mm x 3.552 mm  |
| Optical sensor diagonal                 | 5.92 mm (1/2.7")     |
| Pixel size                              | 7.4 µm               |
| Manufacturer                            | Sony                 |
| Sensor Model                            | ICX424AL             |
| Gain (master/RGB)                       | 18x/-                |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 16 / 4               |
| AOI image height / step width           | 120 / 1              |
| AOI position grid (horizontal/vertical) | 1 / 1                |
| Binning horizontal                      | same frame rate      |
| Binning vertical                        | increased frame rate |
| Binning method                          | Mono                 |
| Binning factor                          | 2 / 3 / 4            |
| Subsampling horizontal                  | -                    |
| Subsampling vertical                    | -                    |
| Subsampling method                      | -                    |
| Subsampling factor                      | -                    |



## Model

|                                   |                      |
|-----------------------------------|----------------------|
| Pixel clock range                 | 10 MHz - 40 MHz      |
| Frame rate freerun mode           | 100                  |
| Frame rate trigger (maximum)      | 100                  |
| Exposure time (minimum - maximum) | 0.032 ms - 120000 ms |
| Power consumption                 | 1.2 W - 1.9 W        |
| Special features                  | Overlap trigger      |

## Ambient conditions

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

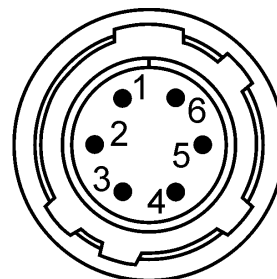
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (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 36.2 mm |
| Mass             | 180 g                       |

