

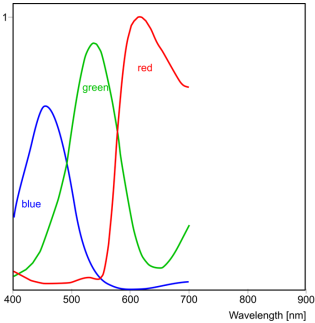
Discontinued  
The model has been discontinued.



Specification

Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CCD Color            |
| Shutter                                 | Global Shutter       |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 1.3 MP               |
| Resolution                              | 1.23 Mpix            |
| Resolution (h x v)                      | 1280 x 960 Pixel     |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/3"                 |
| Optical Size                            | 4.800 mm x 3.600 mm  |
| Optical sensor diagonal                 | 6 mm (1/2.67")       |
| Pixel size                              | 3.75 µm              |
| Manufacturer                            | Sony                 |
| Sensor Model                            | ICX445AQA            |
| Gain (master/RGB)                       | 12x/4x               |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 16 / 4               |
| AOI image height / step width           | 4 / 2                |
| AOI position grid (horizontal/vertical) | 4 / 2                |
| 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 - 41 MHz     |
| Frame rate freerun mode           | 25                  |
| Frame rate trigger (maximum)      | 25                  |
| Exposure time (minimum - maximum) | 0.014 ms - 30000 ms |
| Power consumption                 | 1.1 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.

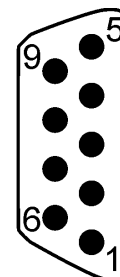
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity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

## Connectors

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Interface connector | USB 2.0 mini-B, screwable                           |
| I/O connector       | 9-pin micro D-Sub socket (MPE Garry 11-0021-50-09L) |
| Power supply        | USB cable                                           |

## Pin assignment I/O connector

|   |                                    |
|---|------------------------------------|
| 1 | Flash output with optocoupler (-)  |
| 2 | Trigger input with optocoupler (+) |
| 3 | Shielding                          |
| 4 | USB Power supply (VCC) 5 V         |
| 5 | USB Ground (GND)                   |
| 6 | Flash output with optocoupler (+)  |
| 7 | Trigger input with optocoupler (-) |
| 8 | USB data (+)                       |
| 9 | USB data (-)                       |



Camera rear view

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 34.0 mm x 32.0 mm x 48.3 mm |
| Mass             | 79 g                        |

