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## IDS U3-33F1XLS-M, USB 3.0, 1/1.8" Monochrome Board Level Camera

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Pictured is an example of an IDS Board Level Camera (Front)



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## Product Downloads

Monochrome **Spectrum:**

### General

Monochrome Camera **Type:**

U3-33F1XLS-M **Model Number:**

IDS Imaging Development Systems **Manufacturer:**

uEye+ XLS **Camera Series:**

### Physical & Mechanical Properties

32.5 x 32.5 x 14 (excludes connectors and lens mount) **Dimensions (mm):**

10 **Weight (g):**

Board Level **Housing:**

### Sensor

Not Specified **Image Buffer:**

1/1.8" **Sensor Format:**

5.10 **Resolution (Megapixels):**

49.00 **Frame Rate (fps):**

2,448 x 2,048 **Pixels (H x V):**

2.74 x 2.74 **Pixel Size, H x V (µm):**

6.707 x 5.612 **Sensing Area, H x V (mm):**

Sony IMX568 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

0.009ms - 2000ms **Exposure Time:**

70.00 **Dynamic Range (dB):**

USB3 Vision **Machine Vision Standard:**

### Electrical

0.5 - 1.2 **Power Consumption (W):**

### Hardware & Interface Connectivity

USB 3.0 **Interface:**

USB 3.0 micro-B **Connector:**

Power over USB **Power Supply:**

8-pin connector **GPIO Connector Type:**

### Threading & Mounting

S-Mount (M12 x 0.5) **Mount:**

### Environmental & Durability Factors

0 to +75 **Operating Temperature (°C):**

-20 to +80

Storage Temperature (°C):

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## Regulatory Compliance

[View](#)

Certificate of Conformance:

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## Product Details

- Standard (SE), Compact (CP), and Ultra Compact (XCP) Housing Options Available
- C-Mount with Large Format CMOS Sensors up to 1.1"
- Up to 20.44MP Resolution with Framerrates up to 396fps

IDS Imaging uEye CP/XCP/SE USB3 Cameras utilize [IDS Imaging's peak SDK platform](#) that supports GeniCam and USB3 Vision standards for easy software development and integration. The CP cameras are the industry standard size of 29 x 29 x 29mm and work for almost any application. The XCP cameras have an ultra-compact size of 29 x 29 x 17mm and are an excellent option for price-sensitive, single-camera applications. The SE cameras have a larger housing size of 34 x 44 x 47mm to allow for exceptional heat management and are ideal for noise and heat-sensitive applications. IDS Imaging uEye CP/XCP/SE USB3 Cameras are ideal for manufacturing, industrial, and automation applications.

## Calibration Services

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