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## IDS U3-3681XLS-C, USB 3.0, 1/2.5" Color Board Level Camera

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



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## Product Downloads

Color **Spectrum:**

## General

Color Camera **Type:**

U3-3681XLS-C **Model Number:**

IDS Imaging Development Systems **Manufacturer:**

uEye+ XLS **Camera Series:**

## Physical & Mechanical Properties

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

13 **Weight (g):**

Board Level **Housing:**

## Sensor

Not Specified **Image Buffer:**

1/2.5" **Sensor Format:**

5.04 **Resolution (Megapixels):**

48.00 **Frame Rate (fps):**

2,592 x 1,944 **Pixels (H x V):**

2.20 x 2.20 **Pixel Size, H x V (µm):**

5.702 x 4.277 **Sensing Area, H x V (mm):**

ON Semi AR0521 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Rolling **Shutter Type:**

12 bit **Pixel Depth:**

0.016ms - 2000ms **Exposure Time:**

64.00 **Dynamic Range (dB):**

USB3 Vision **Machine Vision Standard:**

## Electrical

0.6 - 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 +85 **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.

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