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# IDS U3-3684XLS-NIR-GL, USB 3.0, 1/2.5" Monochrome Board Level Camera NIR

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

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# SPECIFICATIONS

**Spectrum:**
NIR

## General

**Type:**
Mono NIR

**Model Number:**
U3-3684XLS-NIR-GL

**Manufacturer:**
IDS Imaging Development Systems

**Camera Series:**
uEye+ XLS

## Physical & Mechanical Properties

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

**Weight (g):**
13

**Housing:**
Board Level

## Sensor

**Image Buffer:**
Not Specified

**Sensor Format:**
1/2.5"

**Resolution (Megapixels):**
5.04

**Frame Rate (fps):**
48.00

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

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

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

**Imaging Sensor:**
ON Semi AR0522

**Type of Sensor:**
Progressive Scan CMOS

**Shutter Type:**
Rolling

**Pixel Depth:**
12 bit

**Exposure Time:**
0.046ms - 635ms

**Dynamic Range (dB):**
63.00

**Machine Vision Standard:**
USB3 Vision

## Electrical

**Power Consumption (W):**
0.6 - 1.2

## Hardware & Interface Connectivity

**Interface:**
USB 3.0

**Connector:**
USB 3.0 micro-B

**Power Supply:**
Power over USB

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

## Threading & Mounting

**Mount:**
C/CS-Mount

## Environmental & Durability Factors

| Operating Temperature (°C): | Storage Temperature (°C): |
| --- | --- |
| 0 to +55 | -20 to +80 |

## Regulatory Compliance

| Certificate of Conformance: |
| --- |
| View |

# 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 Framerates 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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