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# IDS U3-3680XCP-NIR-GL, USB 3.0, 1/2.5" Monochrome Camera NIR

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IDS Imaging uEye+ USB3 Cameras



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**Spectrum:**  
NIR

## General

**Type:**  
Mono NIR

**Model Number:**  
U3-3680XCP-NIR-GL

IDS Imaging Development Systems **Manufacturer:**

uEye+ XCP **Camera Series:**

## Physical & Mechanical Properties

29 x 29 x 17 (excludes connectors and lens mount) **Dimensions (mm):**

61 **Weight (g):**

Full **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 AR0522 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Rolling **Shutter Type:**

12 bit **Pixel Depth:**

0.01ms - 635ms **Exposure Time:**

63.00 **Dynamic Range (dB):**

USB3 Vision **Machine Vision Standard:**

## Electrical

0.5 - 1 **Power Consumption (W):**

## Hardware & Interface Connectivity

USB 3.0 **Interface:**

USB 3.0 micro-B, screwable **Connector:**

Power over USB **Power Supply:**

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

## Threading & Mounting

C-Mount **Mount:**

## Environmental & Durability Factors

0 to +55 **Operating Temperature (°C):**

-20 to +60 **Storage Temperature (°C):**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

Germany **Country of Origin:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor, **Imported By:**

## 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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