

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

Two IDS industrial cameras are shown. The camera in the foreground on the left has a yellow beam of light emerging from its lens. The camera behind it on the right has a red beam of light emerging from its lens. Both cameras are black with a silver-colored label that reads 'IDS:'. They are mounted on a black base.



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General	
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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:

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.