

IDS U3-3990SE-C-HQ, USB 3.0, 1.1" Color Camera

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IDS Imaging uEye+ USB3 Camera, SE Model (Front)



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Color **Spectrum:**

General

Color Camera **Type:**

U3-3990SE-C-HQ **Model Number:**

Manufacturer:
IDS Imaging Development Systems

Camera Series:
uEye+ SE

Physical & Mechanical Properties

Dimensions (mm):
34 x 44 x 47 (excludes connectors and lens mount)

Weight (g):
110

Housing:
Full

Sensor

Image Buffer:
128MB

Sensor Format:
1.1"

Resolution (Megapixels):
20.30

Frame Rate (fps):
19.00

Pixels (H x V):
4,512 x 4,512

Pixel Size, H x V (µm):
2.74 x 2.74

Sensing Area, H x V (mm):
12.363 x 12.363

Imaging Sensor:
Sony IMX541

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
12 bit

Exposure Time:
0.013ms - 2000ms

Dynamic Range (dB):
70.00

Machine Vision Standard:
USB3 Vision

Electrical

Power Consumption (W):
1.9 - 5.8

Hardware & Interface Connectivity

Interface:
USB 3.0

Connector:
USB Type-C, screwable

Power Supply:
Power over USB

GPIOs:
2 Flash Output, 2 Trigger Input, 2 GPIO, 1 Voltage Output, 1 Ground

Synchronization:
Hardware Trigger (GPIO); Software Trigger

Interface Port Orientation:
Back Panel

GPIO Connector Type:
8-pin Hirose connector (HR25-7TR-8PA(73))

Threading & Mounting

Mount:
C-Mount

Mounting Threads:
1/4-20 with Tripod Mount Adapter [#16-017](#)

Environmental & Durability Factors

Operating Temperature (°C):
0 to +55

Storage Temperature (°C):
-20 to +60

Regulatory Compliance

[Exempt](#) **RoHS 2015:**

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

[Contains SVHC\(s\)](#) **REACH 241:**

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 Framrates 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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