

## DFK 33GX174 Color Camera

The Imaging Source "33" Series GigE Camera



### Only 29×29×57 mm

Lens not included

The Imaging Source DFK 33GX174 color camera has a GigE interface and is the perfect solution for many industrial automation, quality assurance, security, surveillance and medical applications. The color camera ships with the very sensitive 1/1.2 inch Sony CMOS Pregius IMX174LQ sensor. With up to 50 images per second, the DFK 33GX174 is a low cost, yet highly versatile imaging solution. The camera includes a C to CS mount adapter, making it compatible to C and CS mount lenses. Using the optional CS to M12 board lens adapter, the camera is also compatible to M12 board lenses.

The Imaging Source authors and supports drivers, SDKs, extensions and end-user software for Microsoft Windows, which can be freely downloaded from our web site. Extensions for Microsoft Windows enable the DFK 33GX174 to be integrated in to common machine vision software libraries, such as LabView and Open V. Furthermore, we author and support open source Linux drivers and software (Apache License 2.0) to integrate the camera into popular distributions. Download the Linux source code at GitHub.

#### Features

- GigE interface with PoE
- 1/1.2 inch Sony CMOS Pregius sensor (IMX174LQ)
- 1,920×1,200 (2.3 MP)
- Up to 25 images per second
- Global shutter
- Trigger and I/O inputs
- Casing compatible to most analog cameras
- Only 29×29×57 mm
- Compatible to C and CS mount lenses
- Manufactured by The Imaging Source
- Ships with Windows and Linux software

#### Accessories

- CS to C mount adapter (shipped as standard)
- C and CS mount lenses
- CS to M12 board lens adapters
- M12 board lenses
- Standard GigE cable in various lengths
- Trigger cable
- External power supply with cable

#### **Device Drivers for Microsoft Windows**

Device Driver for GigE Cameras

#### Software Development Kits (SDKs) for Microsoft Windows

IC Imaging Control .NET Component for C#, VB.NET, C++ Class Library for C++ projects, IC Imaging Control C Library, IC Imaging Control ActiveX, IC Imaging Control ActiveX Runtime Setup

#### **Extensions for Microsoft Windows**

TWAIN Source for IC Imaging Control, Cognex VisionPro AIK Plugin for IC Imaging Control, LabVIEW Extension for IC Imaging Control, IC Matlab Plugin for Matlab 10.0 R2010, IC Matlab Plugin for Matlab R2013b and higher versions, IC NeuroCheck Driver for NeuroCheck 6.0, IC NeuroCheck Driver for NeuroCheck 6.1

#### End User Software for Microsoft Windows

IC Capture - image acquisition, IC Measure - manual on-screen image measurement and image acquisition, IC Fullscreen Presenter, IC Line Profiler, Footswitch software for IC Capture, Scan2Docx, Scan2Docx OCR, Scan2Voice



# DFK 33GX174 Specification

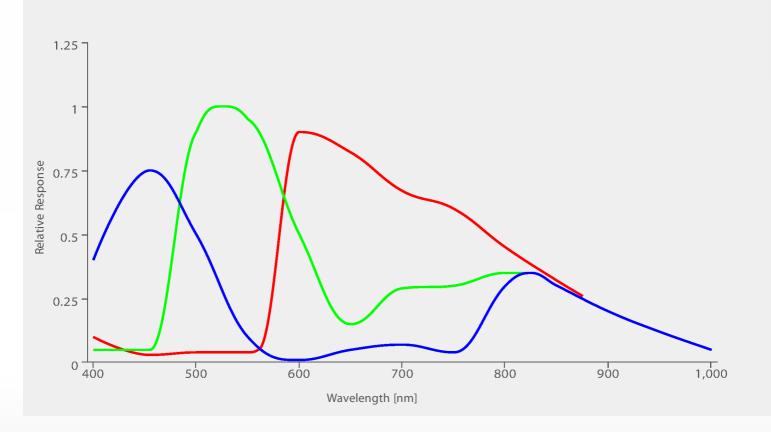
GENERAL BEHAVIOR         Dynamic range       8/12 bit         Video formats @ frame rate (maximum)       1,920×1,200 (2.3 MP) RGB32 @ 50 fps         INTERFACE (OPTICAL)       Interface (OPTICAL)         IR cut filter <ul> <li>Sensor type</li> <li>CMOS Pregius</li> <li>Sensor specification</li> <li>Sony IMX174LQ</li> <li>Shutter</li> <li>global</li> <li>Format</li> <li>1/1,2 inch</li> <li>Resolution (maximum)</li> <li>H: 1920 px, V: 1,200 px</li> <li>Frame rate (maximum)</li> <li>50 fps</li> <li>Fixel size</li> <li>H: 586 µm, V: 5.86 µm</li> <li>Lens mount</li> <li>C/CS</li> </ul> <li>Interface</li> <li>GigE</li> <li>Supply voltage</li> <li>11 VDC to 13 VDC or POE: 48 VDC to 56 VDC</li> <li>Current consumption</li> <ul> <li>approx 400 mA @ 12 VDC</li> <li>Auto Iris control</li> <li>Interface</li> <li>Gig</li> <li>Juprox 400 mA @ 12 VDC</li> <li>Auto Iris control</li> <li>Interface</li> <li>Gig</li> <li>Dimensions</li> <li>H: 29 mm, W: 29 mm, L: 57 mm</li> <li>Mass</li> <li>Gig</li> <li>Dimensions</li> <li>H: 29 mm, W: 29 mm, L: 57 mm</li> <li>Mass</li> <li>Gig</li> <li>Dimensions</li> <li>Q µs s to 50 s</li> <li>Gain</li> <li>0 dB to 48 dB</li> <li>White balance</li> <li>2 dB to 6 dB</li> <li>ENVIRONMENTAL</li> <li>Temperature (operating)</li> <li>-5 "C to 45 "C</li> <li>Temperature (operating)</li> <li>-5 "C to 45 "C</li> <li>Temperature (operating)</li> <li>20 % to 80 % (non-condensing)</li> <li>Humidity (operating)</li> <li>20 % to 80 % (non-condensing)</li> <li>Humidity (operating)</li> <li>20 % to 55 % (non-co</li></ul>		
Video formats @ frame rate (maximum)1,920x1,200 (2.3 MP) RGB32 @ 50 fps 1,920x1,200 (2.3 MP) RGB64 @ 25 fpsINTERFACE (OPTICAL)IR cut filter✓IR cut filter✓Sensor typeCMOS PregiusSensor specificationSony IMX174LQShutterglobalFormatV1,2 inchResolution (maximum)H: 1,920 x, V1,200 pxFrame rate (maximum)S0 fpsPixel sizeIInterfaceGigESupply voltage11 VDC to 13 VDC or POE: 48 VDC to 56 VDCCurrent consumptionapprox 400 mA @ 12 VDCAuto iris control¥Trigger✓I/OsØDimensionsH: 29 mm, W: 29 mm, L: 57 mmMassG5 gShutter30 µs s to 50 sGain0 dB to 48 dBWhite balance-2 dB to 6 dBEVVIRONMENTALETemperature (operating)-5 °C to 45 °CHumidity (storage)20 % to 80 % (non-condensing)Humidity (storage)20 % to 95 % (non-condensing)	GENERAL BEHAVIOR	
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Sensor specification         Sony JMX T24 Q           Shutter         global           Format         1/1,2 inch           Resolution (maximum)         H: 1,920 px, V: 1,200 px           Frame rate (maximum)         50 fps           Pixel size         H: 5.86 µm, V: 5.86 µm           Lens mount         C/CS           INTERFACE (ELECTRICAL)           Interface         GigE           Supply voltage         11 VDC to 13 VDC or POE: 48 VDC to 56 VDC           Current consumption         approx 400 mA @ 12 VDC           Auto iris control         ¥           Trigger         •           I/Os         •           Dimensions         H: 29 mm, W: 29 mm, L: 57 mm           Mass         65 g           ADJUSTINENTS         2.4B to 6 dB           Write balance         -2 dB to 6 dB           Write balance         -2 d'C to 6 °C           Fremperature (operating)         -5 °C to 45 °C           Temperature (storage)         -20 °C to 60 °C           Humidity (operating)         20 % to 59 % (non-condensing)	IR cut filter	✓
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Format         '/1.2 inch           Resolution (maximum)         H: 1,920 px, V: 1,200 px           Frame rate (maximum)         50 fps           Pixel size         H: 5.86 μm, V: 5.86 μm           Lens mount         C/CS <b>NTERFACE (ELECTRICAL)</b> Interface         GigE           Supply voltage         11 VDC to 13 VDC or POE: 48 VDC to 56 VDC           Current consumption         approx 400 mA @ 12 VDC           Auto iris control <b>X</b> Trigger         -           I/Os         -           Dimensions         H: 29 mm, W: 29 mm, L: 57 mm           Mass         65 g           Shutter         30 μs s to 50 s           Gain         0 dB to 48 dB           White balance         -2 dB to 6 dB           Furperature (operating)         -5 °C to 45 °C           Temperature (storage)         -20 °C to 60 °C           Humidity (operating)         20 % to 80 % (non-condensing)	Sensor specification	Sony IMX174LQ
Resolution (maximum)         H: 1,200 px, V: 1,200 px           Frame rate (maximum)         50 fps           Pixel size         H: 5.86 μm, V: 5.86 μm           Lens mount         C/CS           INTERFACE (ELECT RICAL)           Interface         GigE           Supply voltage         11 VDC to 13 VDC or POE: 48 VDC to 56 VDC           Current consumption         approx 400 mA @ 12 VDC           Auto iris control <b>X</b> Trigger         -           I/Os         -           Dimensions         H: 29 mm, W: 29 mm, L: 57 mm           Mass         65 g           Shutter         30 μs s to 50 s           Gain         0 dB to 48 dB           White balance         -20 °C to 60 °C           Femperature (operating)         -5 °C to 45 °C           Temperature (storage)         -20 °C to 60 °C           Humidity (operating)         20 % to 80 % (non-condensing)	Shutter	global
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I/Os       INTERFACE (MECHANICAL)         INTERFACE (MECHANICAL)       H: 29 mm, W: 29 mm, L: 57 mm         Dimensions       H: 29 mm, W: 29 mm, L: 57 mm         Mass       65 g         ADJUSTMENTS       30 µs s to 50 s         Shutter       30 µs s to 50 s         Gain       0 dB to 48 dB         White balance       -2 dB to 6 dB         FNVIRONMENTAL       -2 dB to 6 dB         Temperature (operating)       -5 °C to 45 °C         7emperature (storage)       -20 °C to 60 °C         Humidity (operating)       20 % to 80 % (non-condensing)         Humidity (storage)       20 % to 95 % (non-condensing)	Auto iris control	×
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Temperature (operating)-5 °C to 45 °CTemperature (storage)-20 °C to 60 °CHumidity (operating)20 % to 80 % (non-condensing)Humidity (storage)20 % to 95 % (non-condensing)	White balance	-2 dB to 6 dB
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Humidity (operating)20 % to 80 % (non-condensing)Humidity (storage)20 % to 95 % (non-condensing)	Temperature (operating)	-5 °C to 45 °C
Humidity (storage)20 % to 95 % (non-condensing)	Temperature (storage)	-20 °C to 60 °C
		20 % to 80 % (non-condensing)
Subject to change	Humidity (storage)	20 % to 95 % (non-condensing)
		Subject to change

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# Sony IMX174LQ Spectral Response Curve

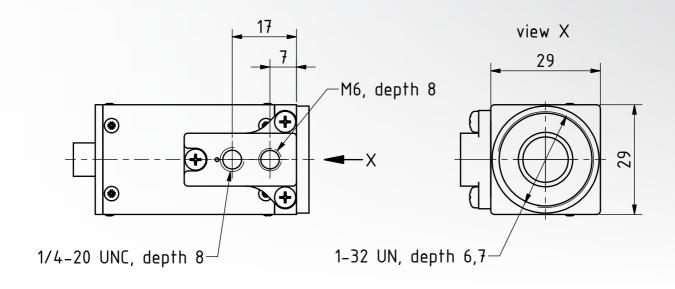
CMOS Pregius Sensor in DFK 33GX174

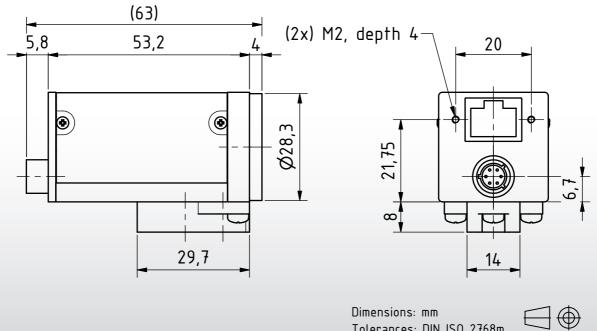


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# DFK 33GX174 Dimensional Diagram





Tolerances: DIN ISO 2768m

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## Machine vision, designed in Germany



Ever since The Imaging Source was founded in 1990, it has been one of the leading manufacturers of industrial cameras, frame grabbers and video converters for automation, quality assurance, logistics, medicine, science and security.

Our extensive range of industrial cameras ships with USB 3.0, USB 2.0, GigE, FireWire 800 and FireWire 400 interfaces. Thanks to their multi-purpose features and extremely high quality standards, the cameras are commonly used in demanding applications.

The software support offered by the cameras fulfill the requirements of demanding end-users and programmers. The cameras can be put into operation within a few minutes, or integrated into new or existing applications with only a few lines of code. All camera drivers are Microsoft certified. The easy of which the cameras can be integrated, the corresponding low integration costs, and the high quality of the software set the industry standard.

All cameras, frame grabbers and video converters, manufactured by The Imaging Source, are the result of decades of experience, uncompromisingly high quality standards, and continual development. Developers and system engineers prefer The Imaging Source cameras due to their ease of system integration.



## **World-Class Software and Customer Care**



What really separates The Imaging Source from its competitors is the comprehensive Windows and Linux software available free of charge with all its products, and the unsurpassed level of customer service.

The Imaging Source authors and supports device drivers, software development kits (SDKs), programming samples, extensions, end-user software and software tools for Microsoft Windows. All Windows software can be download directly from our web site:

### http://www.theimagingsource.com

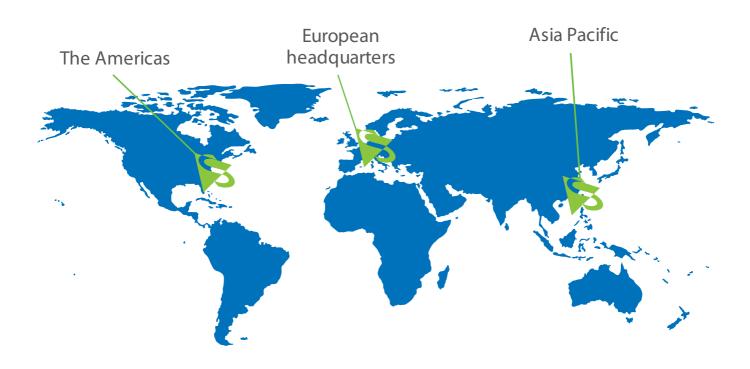
Additionally, The Imaging Source authors and supports open source drivers and end-user software for Linux. The Linux source code, which is released under the Apache License 2.0, enables you to integrate all machine vision cameras into popular Linux distributions. The Open Source code is available to download from GitHub: <a href="https://github.com">https://github.com</a>

The Imaging Source guarantees fast and efficient customer service for all hardware and software issues via our skilled customer service representatives. Not only will we provide support regarding technical issues, but we will also work with you to implement our components into your project. Contact customer service at:

### http://www.theimagingsource.com







### PRESENT ALL OVER THE WORLD

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All weights and dimensions are approximate. Unless otherwise specified the lenses shown in the context of cameras are not shipped with these cameras.

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