

DFK 61AUC02 Color Camera

The Imaging Source "61" Series USB 2.0 Camera



Only 50.6 x 50.6 x 29 mm

Lens not included

The Imaging Source DFK 61AUC02 color camera has a USB 2.0 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 ¹/₂ " Micron CMOS MT9T031 sensor. With up to 10 images per second, the DFK 61AUC02 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.

Drivers, SDKs, programming samples, extensions and end-user software for Microsoft Windows can be freely downloaded from our web site (see below). Community-driven, Open Source projects allow the camera to be used on Linux. Extensions for Microsoft Windows enable the camera to be integrated in to common machine vision software libraries, such as LabView. In addition, the camera is compatible to the Open Source computer vision library, OpenCV.

Features

- USB 2.0 interface.
- 1/2 " Micron CMOS MT9T031.
- Global shutter.
- Up to 2,048 x 1,536 (3.1 MP).
- Up to 10 images per second.
- Compatible to C and CS mount lenses.
- Only 50.6 x 50.6 x 29 mm.

Accessories

- CS to C mount adapter (shipped as standard).
- CS to M12 board lens adapters.
- C and CS mount lenses.
- M12 board lenses.
- Standard USB 2.0 cable in various lengths.
- 5 m USB 2.0 cable with fixing screws.

Device Drivers

Device Driver for The Imaging Source USB 2.0 Cameras.

Software Development Kits (SDKs)

IC Imaging Control .NET Component, C++ Class Library, IC Imaging Control C Library, IC Imaging Control for VC++ 6.0, IC Imaging Control ActiveX and IC Imaging Control ActiveX Runtime Setup.

Programming Samples

Barcode Scanner C# Sample for IC Imaging Control.

Extensions

TWAIN Source for IC Imaging Control, Cognex VisionPro AIK Plugin for IC Imaging Control, ActivVisionTools Driver for IC Imaging Control, HALCON Extension for IC Imaging Control, LabVIEW Extension for IC Imaging Control and IC Matlab Plugin for Matlab 10.0.

End User Software

IC Capture, Image Acquisition.

Software Tools

Processor Idle State Manager.



For design help, accessories or pricing, please contact: sales@avsupply or call: 1-858-565-1101

1-800-284-2288 sales@avsupply.com www.avsupply.com



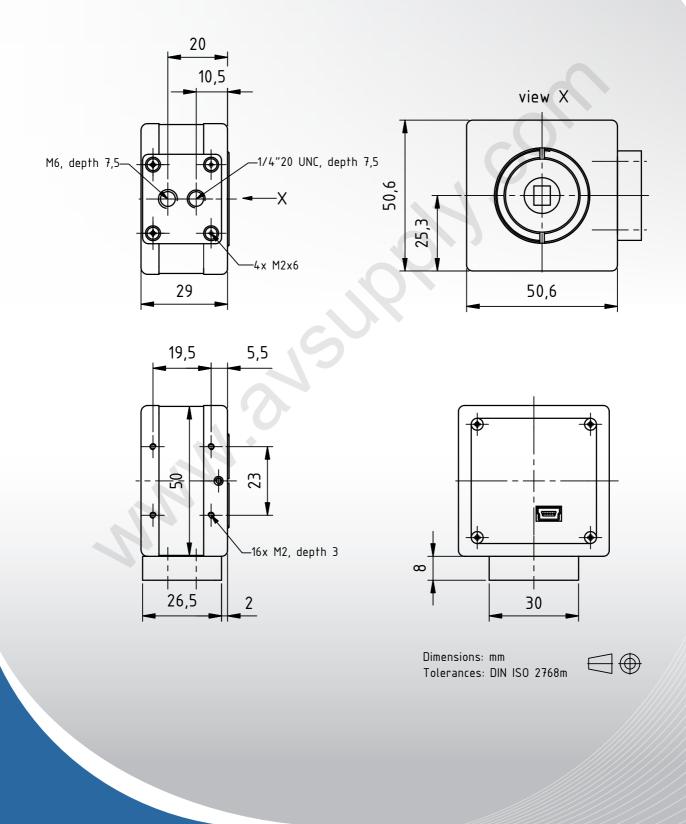
DFK 61AUC02 Specification

Example Configurations				
Resolution	Format	FPS	Sensitivity	
2,048 x 1,536 (3.1 MP)		10	1 V/lux-sec	
1,024 x 768 (0.8 MP)	1/4 "	35.5	1 V/lux-sec	
	olution, format, FPS and sensitivity with	shipped software.		
Color format	BY8, Y800, RGB32			
Dynamic range	8 bit			
NTERFACE (OPTICAL)				
R cut filter	yes			
ensor specification	Micron MT9T031			
hutter	Rolling			
ormat	1/2 "			
Resolution	H: 2,048 pixel, V: 1,536 pix	el		
Pixel size	H: 3.2 μm, V: 3.2 μm			
ens mount	C/CS			
NTERFACE (ELECTRICAL)				
Supply voltage	4.5 VDC to 5.5 VDC			
Current consumption	approx 250 mA at 5 VDC			
NTERFACE (MECHANICAL)				
Dimensions	H: 50.6 mm, W: 50.6 mm, L	.: 29 mm		
lass	140 g			
ADJUSTMENTS (MANUAL)				
Shutter	¹ / _{10,000} s to 4 s			
Gain	0 dB to 18 dB			
White balance	-6 dB to 6 dB			
ADJUSTMENTS (AUTOMATI	C)			
hutter	¹ / _{10,000} s to 4 s			
Gain	0 dB to 18 dB			
White balance	-6 dB to 6 dB			
INVIRONMENTAL				
emperature (operation)	-5 °C to 45 °C			
emperature (storage)	-20 °C to 60 °C			
lumidity (operation)	20 % to 80 % non-conde	nsing		
lumidity (storage)	20 % to 95 % non-conde	nsing		
	Subject to change			

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DFK 61AUC02 Dimensional Diagram



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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 Support



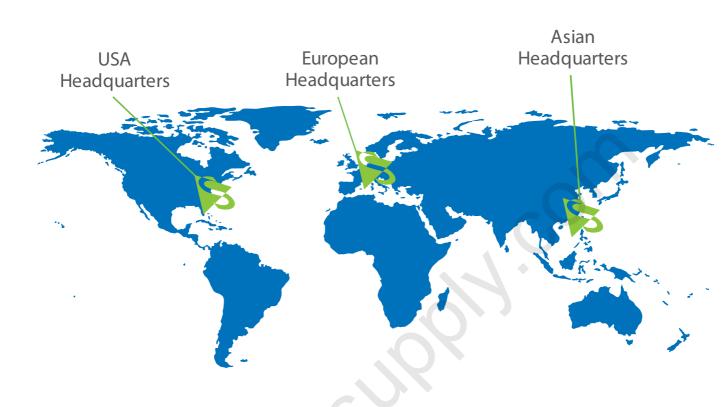
What really separates The Imaging Source from its competitors is the unsurpassed customer service and technical support we provide for our products.

Industrial cameras consist of two basic components: Hardware and software. We guarantee fast and efficient support for both components through our highly skilled support representatives and expert product developers. Not only will we provide support regarding technical issues, but we will also work to provide assistance with software implementation issues.

All cameras, frame grabbers and video converters, manufactured by The Imaging Source, are compatible with IC Imaging Control. Using this SDK, programmers can quickly integrate our machine vision devices into their own applications.

Download IC Imaging Control, drivers, extensions and programming samples from our web site: <u>www.theimagingsource.com</u>





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THE IMAGING SOURCE,	THE IMAGING SOURCE	THE IMAGING SOURCE
LLC	EUROPE GMBH	ASIA CO., LTD.
6926 Shannon Willow Rd, Suite 400, Charlotte, NC 28226, United States.	Sommerstrasse 36, 28215 Bremen, Germany.	6F1, No.230, Sec.3, Bade Rd, Songshan District, Taipei City 105, Taiwan.
Tel: +1 704-370-0110	Tel: +49 (0)421 335 91 0	Tel: +886 2-2577-1228
Fax: +1 704-542-0936	Fax: +49 (0)421 335 91 80	Fax: +886 2-2577-1229

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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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