

THE IMAGING SOURCE
TECHNOLOGY BASED ON STANDARDS



| GigE Cameras | USB Cameras | FireWire Cameras | Converters | Software |

www.theimagingsource.com





ABOUT THE IMAGING SOURCE

Established in 1990, The Imaging Source is one of the leading manufacturers of industrial cameras, frame grabbers and video converters for production automation, quality assurance, logistics, medicine, science, security and traffic surveillance.

www.theimagingsource.com



Machine Vision – Designed in Germany

The Imaging Source manufactures a comprehensive range of cameras with USB 3.0, USB 2.0, GigE, 1394b and 1394a interfaces. The products are renowned for being innovative, high quality and constantly meeting the performance requirements of demanding industrial applications.

Decreasing Integration Costs

The development of our soft and hardware components is driven by our customers requirements and demands. This intimate interplay guarantees that our products work in perfect harmony with one another. We are driven by manufacturing products that have attractive pricing, low integration costs and longevity.

High-Quality and Ease of Use

All cameras, frame grabbers and video converters, manufactured by The Imaging Source, are the result of decades of experience, uncompromisingly high quality standards, and constant development by global teams consisting of experts and end-users.

Developers and system engineers prefer The Imaging Source cameras due to their ease of system integration. With branches and a strong network of distributors in Europe, USA and Asia, we are available for our customers across all time zones.



The Imaging Source Support

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.

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 questions.

Windows:

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 downloaded directly from our website:

<http://www.theimagingsource.com>

Linux:

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:

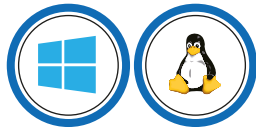
<https://github.com/TheImagingSource/tiscamera>



AUTOFOCUS CAMERAS

The Imaging Source Autofocus Series USB 2.0 and 3.0 CMOS Cameras

- Dimensions 36 x 36 x 25 mm
- Motorized focus control (via software)
- Free measurement tool included
- Free barcode SDK included



Model*	Interface	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size
DxK AFUX236-M12	USB 3.0	1920 x 1200	2	2.8 μm	54 fps	Sony IMX236	1/2.8" CMOS
DxK AFUP031-M12	USB 3.0	2592 x 1944	5	2.2 μm	15 fps	Aptina MT9P031	1/2.5" CMOS
DxK AFUJ003-M12	USB 3.0	3856 x 2764	10	1.67 μm	7 fps	Aptina MT9J003	1/4" CMOS
DxK 22AUC03-F	USB 2.0	744 x 480	0.3	6 μm	76 fps	Aptina MT9V024	1/3" CMOS
DxK 72AUC02-F	USB 2.0	2592 x 1944	5	2.2 μm	6 fps	Aptina MT9P031 M	1/2.5" CMOS
DFK AFU050-L34	USB 2.0	2592 x 1944	5	1.4 μm	15 fps	CMOS	1/4" CMOS

* x (M = monochrome | F = color)

The Imaging Source autofocus cameras are the perfect solution for many industrial automation, quality assurance, security, and surveillance applications. Utilizing the highly sensitive Aptina CMOS sensors with selectable windows and pixel binning capabilities, the accurate 125 micron stepper motor accepts a wide range of M12 lenses for a broad range of uses. With wide VGA global shutter model, as well as, 5 megapixel rolling shutter versions, the application possibilities are endless. The easy to use USB 2.0 and 3.0 protocol, the software driven automatic 'One Push' focus, and the small housing makes this camera both elegant and versatile.

Included:

- Camera, tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Motorized focus control (via software)
- Manual and automatic control
- For M12 lenses optimized
- Binning and ROI

Accessories:

- M12 lenses
- USB 2.0/USB 3.0 cables with fixing screws

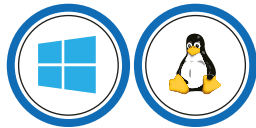


AUTOFOCUS CAMERAS

The Imaging Source 42 MP Series USB 3.0 CMOS Cameras

NEW

- Dimensions 36 x 36 x 25 mm
- C/CS mount or integrated optics
- Free measurement tool included
- Free barcode SDK included



Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Optics	Sensor Size	A/D
NEW DFK AFU420-CCS	7728 x 5368	42	1.12 µm	7 fps	C/CS-Mount	2/3" CMOS	8/12 bit
NEW DFK AFU420-L62	7728 x 5368	42	1.12 µm	7 fps	Integrated (f=6.2)	2/3" CMOS	8/12 bit

* DFK = color

Based on the newest CMOS technology this 42 MP camera provides excellent image and color quality. An almost distortion free 6.2 mm lens (35mm equivalent) combined with a fast autofocus unit makes the camera suitable for a wide range of application. Full HD (1920 x 1080) video can be streamed at 110 fps. In demanding light situations the HDR (high dynamic range) feature makes image content visible that other cameras can not provide. Furthermore, image sharpness, image stability and noise reduction can be controlled by the included end-user software and SDK. The camera, which also offers automatic on-board color correction, ships in compact, robust and lightweight casing and measures only 36 x 36 x 25 mm. It can, therefore, be easily integrated into the tightest enclosures.

Included:

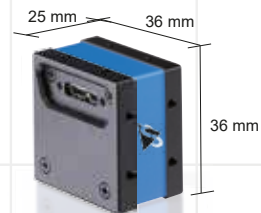
- Camera
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Integrated optics (f=6.2) or
- C/CS/M12 mount adapter
- Binning and ROI

Accessories:

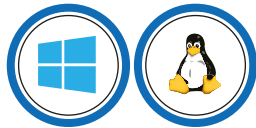
- CS to M12 adapters
- C, CS and M12 lenses



ZOOM CAMERAS

The Imaging Source GigE 12x Zoom Cameras

- Integrated motorized 12x zoom, focus and iris
- Several CMOS and CCD sensors
- Free measurement tool included
- Free barcode SDK included



Model*	Interface	Resolution	Frame Rate	Sensor	Focal Length	Iris	Focus
DMK Z12G445	GigE	1280x960	30 fps	Sony ICX445ALA	4.8 to 57,6 mm	F2.2 to close(auto/man)	auto/man
DFK Z12G445	GigE	1280x960	30 fps	Sony ICX445AQA	4.8 to 57,6 mm	F2.2 to close(auto/man)	auto/man
DMK Z12GX236	GigE	1920x1200	60 fps	Sony IMX236LLJ	4.8 to 57,6 mm	F2.2 to close(auto/man)	auto/man
DFK Z12GX236	GigE	1920x1200	60 fps	Sony IMX236LQJ	4.8 to 57,6 mm	F2.2 to close(auto/man)	auto/man
DMK Z12GP031	GigE	2592x1944	15 fps	Aptina MT9P031M	4.8 to 57,6 mm	F2.2 to close(auto/man)	auto/man
DFK Z12GP031	GigE	2592x1944	15 fps	Aptina MT9P006 C	4.8 to 57,6 mm	F2.2 to close(auto/man)	auto/man

* DMK = monochrome DFK = color

The Imaging Source 12x zoom cameras have an integrated 12x optical zoom lens, iris and focus. Using the included SDK or end-user software IC Capture the camera functions can be adjusted automatically or manually. The cameras, which ship with Gigabit Ethernet interfaces, are ideally suited to a wide range of applications in the fields of industrial automation, quality assurance, traffic (ITS), surveillance and medicine.

Included:

- Camera, tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Integrated motorized lens
- Zoom, focus and iris adjustable by software
- Trigger and digital I/O
- Binning and ROI (CMOS only)
- Power over Ethernet

Accessories:

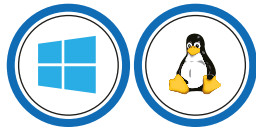
- 12VDC power adapter
- External power and trigger cable
- Close-up lenses for macro imaging



ZOOM CAMERAS

The Imaging Source GigE 30x Zoom Cameras

- Integrated motorized 30x zoom, focus and iris
- Free measurement tool included
- Free barcode SDK included



Model*	Interface	Resolution	Frame Rate	Sensor	Focal Length	Iris	Focus
DMK Z30GP031	GigE	2048 x 1536	15 fps	Aptina MT9P031 M	4.3 to 129 mm	F1.6 to close (auto/man)	auto/man
DFK Z30GP031	GigE	2048 x 1536	15 fps	Aptina MT9P006 C	4.3 to 129 mm	F1.6 to close (auto/man)	auto/man

* DMK = monochrome DFK = color

The Imaging Source 30x Zoom 3 megapixel cameras have an integrated 30x optical zoom lens, iris and focus. Using the included SDK or end-user software IC Capture the camera functions can be adjusted automatically or manually. The cameras, which ship with Gigabit Ethernet interfaces, are ideally suited to a wide range of applications in the fields of industrial automation, quality assurance, traffic (ITS), surveillance and medicine.

Included:

- Camera, tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Integrated motorized lens
- Zoom, focus and iris adjustable by software
- Trigger and digital I/O
- Binning and ROI
- Power over Ethernet

Accessories:

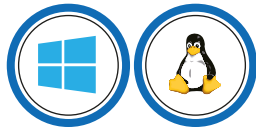
- 12VDC power adapter
- External power and trigger cable
- Close-up lenses for macro imaging



The Imaging Source GigE 33e Series Cameras

- Dimensions 44 x 29 x 57 mm
- Wide range of CMOS sensors
- Large image buffer
- Free measurement tool included
- Free barcode SDK included

NEW



Pregius

	Model	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
NEW	DxK 33GP1300e	1280 x 1024	1.3	4.8 µm	90 fps	OnSemi P1300	1/2" CMOS	8/10 bit
NEW	DxK 33GP2000e	1920 x 1200	2	4.8 µm	50 fps	OnSemi P2000	2/3" CMOS	8/10 bit
NEW	DxK 33GX291e	1920 x 1080	2.4	2.8 µm	60 fps	Sony IMX 291	1/1.2" CMOS	8/12 bit
NEW	DxK 33GX249e	1920 x 1200	2.4	5.86 µm	40 fps	Sony IMX249**	1/1.2" CMOS	8/12 bit
NEW	DxK 33GX174e	1920 x 1200	2.4	5.86 µm	50 fps	Sony IMX174**	1/1.2" CMOS	8/12 bit
NEW	DxK 33GX265e	2048 x 1536	3.2	3.45 µm	36 fps	Sony IMX265**	1/1.8" CMOS	8/12 bit
NEW	DxK 33GP5000e	2592 x 2048	5	4.8 µm	21 fps	OnSemi P5000	1" CMOS	8/10 bit
NEW	DxK 33GX264e	2448 x 2048	5	3.45 µm	22 fps	Sony IMX264**	2/3" CMOS	8/12 bit
NEW	DxK 33GX178e	3072 x 2048	6.3	2.4 µm	18 fps	Sony IMX178	1/1.8" CMOS	8/12 bit
NEW	DxK 33GJ003e	3856 x 2764	10	1.67 µm	10 fps	Aptina MT9J003	1/2.3" CMOS	8/12 bit

x (M = monochrome | F = color)

** = SONY Pregius sensor

Included:

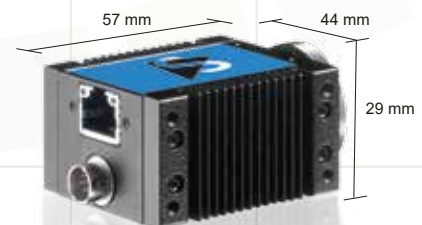
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Variable trigger delay (4 µs to 1 s)
- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI (CMOS only)
- Power over Ethernet
- Direct power option
- Optional external DC driven auto iris controller

Accessories:

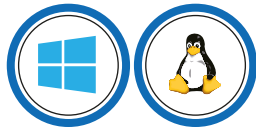
- CS to M12 adapters
- C, CS, and M12 lenses
- 12VDC power adapter
- 6-pin Hirose break-out cable
- External power and trigger cable



The Imaging Source GigE 33 Series Cameras

- Dimensions 29 x 29 x 57 mm
- Wide range of CCD and CMOS sensors
- Power over Ethernet
- Free measurement tool included
- Free barcode SDK included

NEW



Pregius

	Model	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
NEW	DxK 33G618	640 x 480	0.3	5.6 µm	120 fps	Sony ICX618A	1/4" CCD	8/12 bit
NEW	DxK 33GV024	752 x 480	0.3	6 µm	100 fps	Aptina MT9V024	1/3" CMOS	8/12 bit
NEW	DxK 33G445	1280 x 960	1.2	3.75 µm	30 fps	Sony ICX445A	1/3" CCD	8/12 bit
NEW	DxK 33GR0134	1280 x 960	1.2	3.75 µm	70 fps	Aptina AR0134	1/3" CMOS	8/10 bit
NEW	DxK 33GP1300	1280 x 1024	1.3	4.8 µm	90 fps	OnSemi P1300	1/2" CMOS	8/12 bit
NEW	DxK 33G274	1600 x 1200	2	4.4 µm	20 fps	Sony ICX274A	1/1.8" CCD	8/12 bit
NEW	DxK 33GX290	1920 x 1080	2.4	2.8 µm	60 fps	Sony IMX290	1/2.8" CMOS	8/12 bit
NEW	DxK 33GX249	1920 x 1200	2.4	5.86 µm	40 fps	Sony IMX249**	1/1.2" CMOS	8/12 bit
NEW	DxK 33GX174	1920 x 1200	2.4	5.86 µm	50 fps	Sony IMX174**	1/1.2" CMOS	8/12 bit
NEW	DxK 33GX265	2048 x 1536	3.2	3.45 µm	36 fps	Sony IMX265**	1/1.8" CMOS	8/12 bit
NEW	DxK 33GP031	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006	1/2.5" CMOS	8/12 bit
NEW	DxK 33GX264	2448 x 2048	5	3.45 µm	22 fps	Sony IMX264**	2/3" CMOS	8/12 bit
NEW	DxK 33GX178	3072 x 2048	6.3	2.4 µm	18 fps	Sony IMX178	1/1.8" CMOS	8/12 bit
NEW	DxK 33GJ003	3856 x 2764	10	1.67 µm	10 fps	Aptina MT9J003	1/2.3" CMOS	8/12 bit

x (M = monochrome | F = color) ** = SONY Pregius sensor

Included:

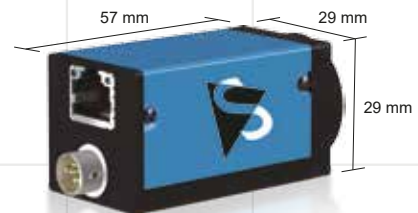
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Variable trigger delay (4 µs to 1 s)
- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI (CMOS only)
- Power over Ethernet
- Direct power option
- Optional external DC driven auto iris controller

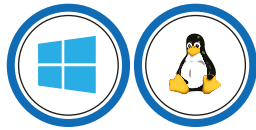
Accessories:

- CS to M12 adapters
- C, CS, and M12 lenses
- 12VDC power adapter
- 6-pin Hirose break-out cable
- External power and trigger cable



The Imaging Source GigE 23 Series Cameras

- Dimensions 29 x 29 x 57 mm
- Wide range of CCD and CMOS sensors
- Power over Ethernet
- Free measurement tool included
- Free barcode SDK included



Model	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DxK 23G618	640 x 480	0.3	5.6 µm	120 fps	Sony ICX618A	1/4" CCD	8/12 bit
DxK 23GV024	752 x 480	0.3	6 µm	100 fps	Aptina MT9V024	1/3" CMOS	8/12 bit
DxK 23GR0132	1280 x 960	1.2	3.75 µm	60 fps	Aptina AR0132	1/3" CMOS	8/12 bit
DxK 23GM021	1280 x 960	1.2	3.75 µm	60 fps	Aptina MT9M021	1/3" CMOS	8/12 bit
DxK 23G445	1280 x 960	1.2	3.75 µm	30 fps	Sony ICX445A	1/3" CCD	8/12 bit
DxK 23GP1300	1280 x 1024	1.3	4.8 µm	63 fps	OnSemi P1300	1/2" CMOS	8/10 bit
DxK 23G274	1600 x 1200	2	4.4 µm	20 fps	Sony ICX274A	1/1.8" CCD	8/12 bit
DxK 23GX236	1920 x 1200	2.4	2.8 µm	42 fps	Sony IMX236L	1/2.8" CMOS	8/12 bit
DxK 23GP031	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006	1/2.5" CMOS	8/12 bit

x (M = monochrome | F = color)

The Imaging Source "23" series Gigabit Ethernet cameras are the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing monochrome and color CCD and CMOS sensors of up to 5 megapixels, these cameras feature a variety of input, output, strobe, and trigger options via an external Hirose port. With up to 120 fps and a trigger delay of less than 5 micro seconds, the "23" camera series from The Imaging Source is a low cost, yet highly versatile imaging solution.

Included:

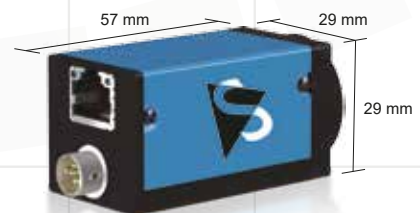
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Variable trigger delay (4 µs to 1 s)
- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI (CMOS only)
- Power over Ethernet
- Direct power option
- Optional external DC driven auto iris controller

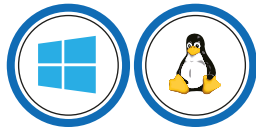
Accessories:

- CS to M12 adapters
- C, CS, and M12 lenses
- 12VDC power adapter
- 6-pin Hirose break-out cable
- External power and trigger cable



The Imaging Source IEEE 1394b Series Cameras

- Dimensions 29 x 29 x 47 mm
- Wide range of CCD and CMOS sensors
- Free measurement tool included
- Free barcode SDK included



Model	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DxK 23F618	640 x 480	0.3	5.6 μm	120 fps	Sony ICX618ALA	1/4" CCD	8/12 bit
DxK 23FV024	752 x 480	0.3	6 μm	100 fps	Aptina MT9V024	1/3" CMOS	8/12 bit
DxK 23FM021	1280 x 960	1.2	3.75 μm	45 fps	Aptina MT9M021	1/3" CMOS	8/12 bit
DxK 23F445	1280 x 960	1.2	3.75 μm	30 fps	Sony ICX445ALA	1/3" CCD	8/12 bit
DxK 23F274	1600 x 1200	2	4.4 μm	20 fps	Sony ICX274AL	1/1.8" CCD	8/12 bit
DxK 23FP031	2592 x 1944	5	2.2 μm	11 fps	Aptina MT9P006	1/2.5" CMOS	8/12 bit

x (M = monochrome | F = color)

The Imaging Source "IEEE 1394b" cameras are the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing monochrome and color CCD and CMOS sensors of up to 5 megapixels, these cameras feature a variety of input, output, strobe, and trigger options via an external Hirose port. With up to 120 fps and a trigger delay of less than 5 micro seconds, the "IEEE 1394b" camera series from The Imaging Source is a low cost, yet highly versatile imaging solution.

Included:

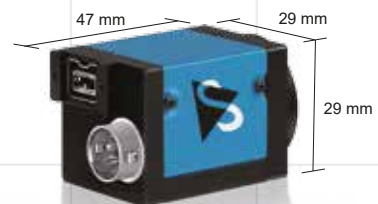
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Variable trigger delay (4 μs to 1 s)
- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI (CMOS only)

Accessories:

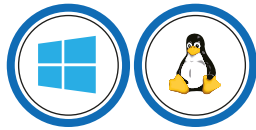
- CS to M12 adapters
- C, CS, and M12 lenses
- 12-pin Hirose trigger cable



The Imaging Source USB 3.0 33 Series Cameras

- Dimensions 29 x 29 x 47 mm
- Wide range of CCD and CMOS sensors
- Free measurement tool included
- Free barcode SDK included

NEW



Pregius

	Model	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
NEW	DxK 33UP1300*	1280 x 1024	1.3	4.8 µm	175 fps	OnSemi P1300	1/2" CMOS	8/10 bit
NEW	DxK 33UP2000*	1920 x 1200	2	4.8 µm	160 fps	OnSemi P2000	2/3" CMOS	8/10 bit
NEW	DxK 33UX291*	1920 x 1080	2.4	2.8 µm	60 fps	Sony IMX291	1/2.8" CMOS	8/12 bit
NEW	DxK 33UX249*	1920 x 1200	2.4	5.86 µm	40 fps	Sony IMX249**	1/1.2" CMOS	8/12 bit
NEW	DxK 33UX174*	1920 x 1200	2.4	5.86 µm	160 fps	Sony IMX174**	1/1.2" CMOS	8/12 bit
NEW	DxK 33UX252*	2048 x 1536	3.2	3.45 µm	120 fps	Sony IMX252**	1/1.8" CMOS	8/12 bit
NEW	DxK 33UX265*	2048 x 1536	3.2	3.45 µm	55 fps	Sony IMX265**	1/1.8" CMOS	8/12 bit
NEW	DxK 33UP5000*	2592 x 2048	5	4.8 µm	70 fps	OnSemi P5000	1" CMOS	8/10 bit
NEW	DxK 33UX250*	2448 x 2048	5	3.45 µm	75 fps	Sony IMX250**	2/3" CMOS	8/12 bit
NEW	DxK 33UX264*	2448 x 2048	5	3.45 µm	35 fps	Sony IMX264**	2/3" CMOS	8/12 bit
NEW	DxK 33UX178*	3072 x 2048	6.3	2.4 µm	30 fps	Sony IMX178	1/1.8" CMOS	8/12 bit
NEW	DxK 33UX255*	4096 x 2160	8.9	3.45 µm	42 fps	Sony IMX255	1" CMOS	8/12 bit
NEW	DxK 33UJ003*	3856 x 2764	10	1.67 µm	10 fps	Aptina MT9J003	1/2.3" CMOS	8/12 bit
NEW	DxK 33UX253*	4096 x 3000	12	3.45 µm	30 fps	Sony IMX253	1" CMOS	8/12 bit

x (M = monochrome | F = color)

* = auch mit mehr Speicher verfügbar

** = SONY Pregius sensor

Included:

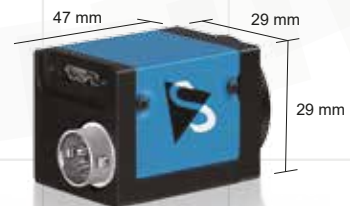
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10,
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Variable trigger delay (4 µs to 1 s)
- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI (CMOS only)

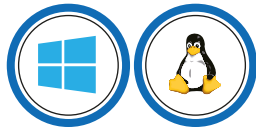
Accessories:

- CS to M12 adapters
- C, CS, and M12 lenses
- 12-pin Hirose trigger cable



The Imaging Source USB 3.0 23 Series Cameras

- Dimensions 29 x 29 x 47 mm
- Wide range of CCD and CMOS sensors
- Free measurement tool included
- Free barcode SDK included



Model	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DxK 23U618	640 x 480	0.3	5.6 µm	120 fps	Sony ICX618A	1/4" CCD	8/12 bit
DxK 23UV024	752 x 480	0.3	6 µm	100 fps	Aptina MT9V024	1/3" CMOS	8/12 bit
DxK 23UR0132	1280 x 960	1.2	3.75 µm	60 fps	Aptina AR0132	1/3" CMOS	8/12 bit
DxK 23UM021	1280 x 960	1.2	3.75 µm	60 fps	Aptina MT9M021	1/3" CMOS	8/12 bit
DxK 23U445	1280 x 960	1.2	3.75 µm	30 fps	Sony ICX445A	1/3" CCD	8/12 bit
DxK 23UP1300	1280 x 1024	1.3	4.8 µm	95 fps	OnSemi P1300	1/2" CMOS	8/10 bit
DxK 23U274	1600 x 1200	2	4.4 µm	20 fps	Sony ICX274A	1/1.8" CCD	8/12 bit
DxK 23UX236	1920 x 1200	2.4	2.8 µm	54 fps	Sony IMX236L	1/2.8" CMOS	8/12 bit
DxK 23UP031	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006	1/2.5" CMOS	8/12 bit

x (M = monochrome | F = color)

The Imaging Source USB 3.0 cameras are the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing monochrome and color CCD and CMOS sensors of up to 5 megapixels, these cameras feature a variety of input, output, strobe, and trigger options via an external Hirose port. With up to 120 fps and a trigger delay of less than 5 micro seconds, the USB 3.0 cameras from The Imaging Source is a low cost, yet highly versatile imaging solution.

Included:

- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10,
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Variable trigger delay (4 µs to 1 s)
- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI (CMOS only)

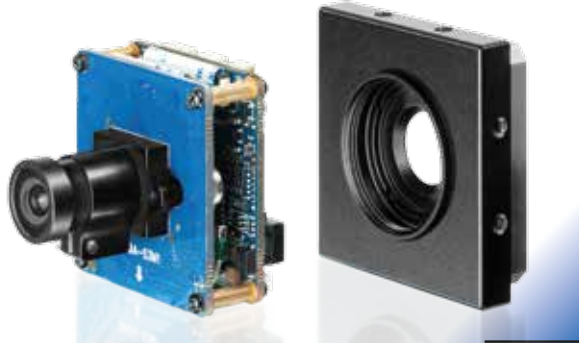
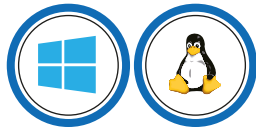
Accessories:

- CS to M12 adapters
- C, CS, and M12 lenses
- 12-pin Hirose trigger cable



The Imaging Source 12 Series Network Cameras

- Dimensions 36 x 36 x 29 mm
- 10M/100M auto-adaption Ethernet port
- On-board image enhancement
- On-board compression (H.264, H.265, MJPEG)
- C/CS and M12 lens mount



Model	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DFK 12NX290	1920 x 1080	2	2.8 µm	30 fps	CMOS	1/2.8" CMOS	8 bit
DFK 12NX290-ML	1920 x 1080	2	2.8 µm	30 fps	CMOS	1/2.8" CMOS	8 bit

* DFK = color

The Imaging Source network cameras combine the image quality and ease-of-use from its premium range, with a price tag that is simply unbeatable. The network cameras, which feature a CMOS sensor and a resolution of up to 1920x1080 pixels at 30 FPS ship with image enhancement and compression (H.264, H.265, MJPEG) on board. Sharpness, hue, saturation, gamma, brightness and contrast can be set using the included SDK. The cameras are equipped with a CS mount and come with a C/CS mount adapter, also manufactured to the highest standard, out of aluminum and zinc.

Included:

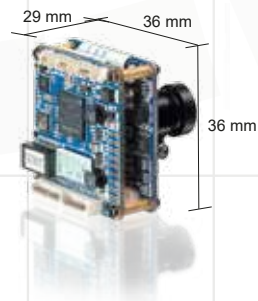
- Camera, CS to C mount adapter and tripod mount (housed versions)
- (Does not need drivers)
- Image acquisition via VLC and the like
- Software Development Kit (SDK) for Windows and Linux

Features:

- C/CS/M12 lens mount
- On-board image enhancement
- H.264, H.265, MJPEG

Accessories:

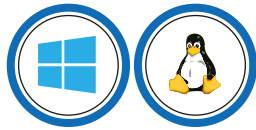
- CS to M12 adapters
- C, CS, and M12 lenses
- Network cable with locking screws



The Imaging Source 73 Series USB 2.0 Cameras

- Dimensions 36 x 36 x 25 mm
- On-board image enhancement / compression
- C/CS and M12 lens mount
- Free measurement tool included
- Free barcode SDK included

NEW



NEW

NEW

Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DFK 73AUC04	2592 x 1944	5	1.4 µm	15 fps	Omni OV5640	1/4" CMOS	8 bit
DFM 73AUC04-ML	2592 x 1944	5	1.4 µm	15 fps	Omni OV5640	1/4" CMOS	8 bit

* DFK/DFM = color

The Imaging Source very low cost machine vision cameras combine the image quality and ease-of-use from its premium range, with a price tag that is simply unbeatable. The low cost machine vision cameras, which feature a CMOS sensor and a resolution of up to 2592x1944 pixels at 15 FPS (uncompressed) ship with a number of image enhancements on board. Sharpness, hue, saturation, gamma, brightness and contrast can be set using the included end-user software and SDK. The cameras are equipped with a CS mount and come with a C/CS mount adapter, also manufactured to the highest standard, out of aluminum and zinc.

Included:

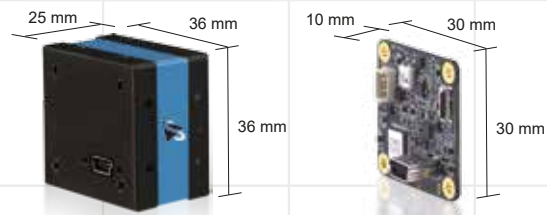
- Camera, M12 mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- C/CS/M12 lens mount
- On-board image enhancement
- Extremely low price

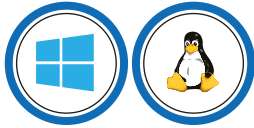
Accessories:

- CS to M12 adapter
- C, CS and M12 lenses
- USB 2.0 cable with locking screws



The Imaging Source One4all Series USB 2.0 CMOS Cameras

- Dimensions 36 x 36 x 25 mm
- Several CMOS sensors available
- Free measurement tool included
- Free barcode SDK included



Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DMK 22A(B)UC03	744 x 480	0.3	6 µm	76 fps	Aptina MT9V024 M	1/3" CMOS	8 bit
DFK 22A(B)UC03	744 x 480	0.3	6 µm	76 fps	Aptina MT9V024 C	1/3" CMOS	8 bit
DMK 42A(B)UC03	1280 x 960	1.2	3.75 µm	25 fps	Aptina MT9M021 M	1/3" CMOS	8 bit
DFK 42A(B)UC03	1280 x 960	1.2	3.75 µm	25 fps	Aptina MT9M021 C	1/3" CMOS	8 bit
DMK 42A(B)UE03	1280 x 960	1.2	3.75 µm	25 fps	Aptina AR0132 M	1/3" CMOS	8 bit
DFK 42A(B)UE03	1280 x 960	1.2	3.75 µm	25 fps	Aptina AR0132 C	1/3" CMOS	8 bit
DMK 72A(B)UC02	2592 x 1944	5	2.2 µm	6 fps	Aptina MT9P031 M	1/2.5" CMOS	8 bit
DFK 72A(B)UC02	2592 x 1944	5	2.2 µm	6 fps	Aptina MT9P006 C	1/2.5" CMOS	8 bit

* DMK = monochrome DFK = color

The Imaging Source "One4all" series of CMOS machine vision cameras is the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing the highly sensitive Aptina CMOS sensors, the housed products are very compact and are ideally suited to cost sensitive applications. Binning, windowing and high-speed readout are but a few of the performance enhancements that dramatically reduces image noise levels. The Imaging Source "One4all" CMOS cameras are characterized by small housings and very competitive prices.

Included:

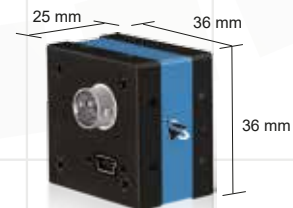
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10, Vista, XP
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI

Accessories:

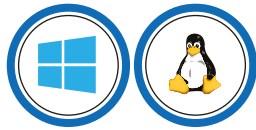
- CS to M12 adapters
- C, CS, and M12 lenses
- USB 2.0 cable (1.8m, 3m, 4.5m)
- 4-pin Hirose trigger cable



The Imaging Source 27 Series USB 3.0 CMOS Cameras

- Dimensions 36 x 36 x 25 mm
- Several CMOS sensors available
- Free measurement tool included
- Free barcode SDK included

NEW



	Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
NEW	DMK 27A(B)UP006	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006 M	1/3" CMOS	8 bit
NEW	DFK 27A(B)UP006	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006 C	1/3" CMOS	8 bit
NEW	DMK 27A(B)UJ003	3856 x 2764	10	1.67 µm	7 fps	Aptina MT9J003 M	1/2.3" CMOS	8 bit
NEW	DFK 27A(B)UJ003	3856 x 2764	10	1.67 µm	7 fps	Aptina MT9J003 C	1/2.3" CMOS	8 bit

* DMK = monochrome DFK = color

The Imaging Source 27 series of CMOS machine vision cameras is the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing the highly sensitive Aptina CMOS sensors, the housed products are very compact and are ideally suited to cost sensitive applications. Binning, windowing and high-speed readout are but a few of the performance enhancements that dramatically reduces image noise levels. The Imaging Source 27 series CMOS cameras are characterized by small housings and very competitive prices.

Included:

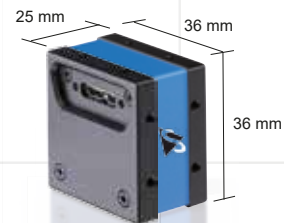
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, vFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10, Vista, XP
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Digital I/O strobe
- C/CS/M12 mount adapter
- Binning and ROI

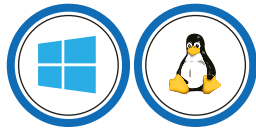
Accessories:

- CS to M12 adapters
- C, CS, and M12 lenses



The Imaging Source One4all Series USB 2.0 CMOS Board Cameras

- Dimensions 30 x 30 x 10 mm
- Several CMOS sensors available
- Free measurement tool included
- Free barcode SDK included



Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DMM 22BUC03-ML	744 x 480	0.3	6 µm	76 fps	Aptina MT9V024 M	1/3" CMOS	8 bit
DFM 22BUC03-ML	744 x 480	0.3	6 µm	76 fps	Aptina MT9V024 C	1/3" CMOS	8 bit
DMM 42BUC03-ML	1280 x 960	1.2	3.75 µm	25 fps	Aptina MT9M021 M	1/3" CMOS	8 bit
DFM 42BUC03-ML	1280 x 960	1.2	3.75 µm	25 fps	Aptina MT9M021 C	1/3" CMOS	8 bit
DMM 42BUE03-ML	1280 x 960	1.2	3.75 µm	25 fps	Aptina AR0132 M	1/3" CMOS	8 bit
DFM 42BUE03-ML	1280 x 960	1.2	3.75 µm	25 fps	Aptina AR0132 C	1/3" CMOS	8 bit
DMM 72BUC02-ML	2592 x 1944	5	2.2 µm	6 fps	Aptina MT9P031 M	1/2.5" CMOS	8 bit
DFM 72BUC02-ML	2592 x 1944	5	2.2 µm	6 fps	Aptina MT9P006 C	1/2.5" CMOS	8 bit

* DMM = monochrome DFM = color

The Imaging Source "One4all" series of CMOS machine vision cameras is the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing the highly sensitive Aptina CMOS sensors, the board version products are very compact and are ideally suited to cost sensitive applications. Binning, windowing and high-speed readout are but a few of the performance enhancements that dramatically reduces image noise levels. The Imaging Source "One4all" CMOS board cameras are characterized by small PCB dimensions and very competitive prices.

Included:

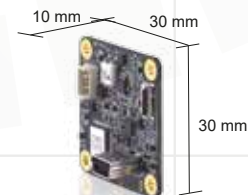
- Camera
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10, Vista, XP
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Digital I/O strobe
- Binning and ROI
- Angled USB connector available
- Molex Picoblade connector available
- C/CS-Mount frontplate available

Accessories:

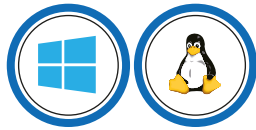
- M12 adapters
- M12 lenses
- USB 2.0 cable (1.8m, 3m, 4.5m)
- JST trigger connector cable included



The Imaging Source 27 Series USB 3.0 CMOS Board Cameras

- Dimensions 30 x 30 x 10 mm
- Several CMOS sensors available
- Free measurement tool included
- Free barcode SDK included

NEW



NEW
NEW
NEW
NEW

Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DMM 27UP006-ML	2592 x 1944	5	2.2 μ m	15 fps	Aptina MT9P006 M	1/3" CMOS	8 bit
DFM 27UP006-ML	2592 x 1944	5	2.2 μ m	15 fps	Aptina MT9P006 C	1/3" CMOS	8 bit
DMM 27UJ003-ML	3856 x 2764	10	1.67 μ m	7 fps	Aptina MT9J003 M	1/2.3" CMOS	8 bit
DFM 27UJ003-ML	3856 x 2764	10	1.67 μ m	7 fps	Aptina MT9J003 C	1/2.3" CMOS	8 bit

* DMM = monochrome DFM = color

The Imaging Source 27 series of CMOS machine vision cameras is the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing the highly sensitive Aptina CMOS sensors, the board version products are very compact and are ideally suited to cost sensitive applications. Binning, windowing and high-speed readout are but a few of the performance enhancements that dramatically reduces image noise levels. The Imaging Source 27 series CMOS board cameras are characterized by small PCB dimensions and very competitive prices.

Included:

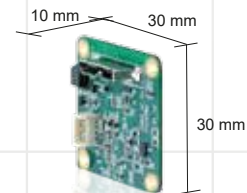
- Camera
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10, Vista, XP
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Digital I/O strobe
- CS and C mount adapter
- Binning and ROI
- Angled USB connector available

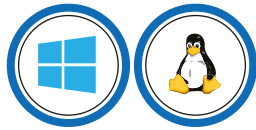
Accessories:

- M12 lenses
- USB 3.0 cable
- JST trigger connector cable included



The Imaging Source GigE Board Cameras

- Dimensions 45 x 45 x 20 mm
- Power over Ethernet
- Free measurement tool included
- Free barcode SDK included



Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DMM 25G445-ML	1280 x 960	1.2	3.75 μ m	30 fps	Sony ICX445ALA	1/3" CCD	8/12 bit
DFM 25G445-ML	1280 x 960	1.2	3.75 μ m	30 fps	Sony ICX445AQA	1/3" CCD	8/12 bit
DMM 25GX236-ML	1920 x 1200	2.4	2.8 μ m	42 fps	Sony IMX236LL	1/2.8" CMOS	8/12 bit
DFM 25GX236-ML	1920 x 1200	2.4	2.8 μ m	42 fps	Sony IMX236LQ	1/2.8" CMOS	8/12 bit
DMM 25GP031-ML	2592 x 1944	5	2.2 μ m	15 fps	Aptina MT9P031 M	1/2.5" CMOS	8/12 bit
DFM 25GP031-ML	2592 x 1944	5	2.2 μ m	15 fps	Aptina MT9P006 C	1/2.5" CMOS	8/12 bit

* DMM = monochrome DFM = color

The Imaging Source "GigE Board Camera" series of machine vision cameras is the perfect solution for many industrial automation, quality assurance, security, surveillance, and medical applications. Utilizing the highly sensitive Sony and Aptina sensors, the board version products are very compact and are ideally suited to cost sensitive applications. Binning, windowing and high-speed readout are but a few of the performance enhancements of the CMOS cameras, dramatically reduces image noise levels. The Imaging Source GigE board cameras are characterized by small PCB dimensions and very competitive prices.

Included:

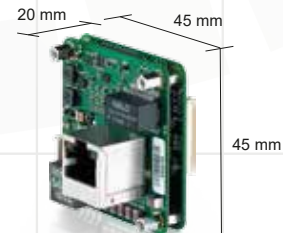
- Camera
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10, Vista, XP
- Free barcode SDK for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

- Trigger and digital I/O
- Binning and ROI (CMOS only)
- Power over Ethernet

Accessories:

- M12 adapters
- M12 lenses
- JST trigger connector cable included



The Imaging Source High Quality 5 MP Lenses

- Type: C/CS Mount
- Available focal lengths: 4-75 mm
- Format: Up to 1"
- Filter thread
- Optical Resolution: 5 megapixel



	Model	Format	Mount	Iris Range	MOD (m)	Focal Length	Filter	Mass
NEW	TCSL 0418 5MP	1/2.5	CS	1.8	0.1	4	-	28
NEW	TCL 0616 5MP	1/1.8	C	1.6-16	0.1	6	M34x0.5	110
NEW	TCSL 0618 5MP	1/2.5	CS	1.8	0.1	6	-	33
NEW	TCL 0814 5MP	1/1.8	C	1.4-16	0.1	8	M27x0.5	94
NEW	TCSL 0818 5MP	1/2.5	CS	1.8	0.1	8	-	35
NEW	TCL 1216 5MP	2/3	C	1.6-16	0.1	12	M27x0.5	100
NEW	TCL 1616 5MP	2/3	C	1.6-16	0.2	16	M27x0.5	108
NEW	TCL 2518 5MP	2/3	C	1.8-16	0.3	25	M27x0.5	86
NEW	TCL 3520 5MP	2/3	C	2.0-16	0.4	35	M27x0.5	84
NEW	TCL 5026 5MP	2/3	C	2.6-32	0.5	50	M30.5x0.5	113
NEW	TCL 7528 5MP	1	C	2.8-32	0.6	75	M34x0.5	146

The lenses are available in C- or CS-mount types with a focal length of 4 mm up to 75 mm. To ensure maximum stability, the C-mount lenses are of a screw-thread type with a locking screw. The very competitively priced CS-mount lenses, on the other hand, are exceptionally light and compact. With image formats of up to 1" and an optical resolution of 5 megapixel, the lenses can be used in conjunction with a variety of CCD and CMOS sensors.

The 5 megapixel lenses are delivered in a compact, robust metal housing making them well suited to industrial applications. In cases where the working distance is less than the minimum object distance (MOD) of the lens, The Imaging Source offers a range of moderately-priced extension rings and tubes.

These features make the lenses especially practical for measurement and imaging tasks in automation, quality control, medical, logistics, sciences and security.



The Imaging Source Mega-Pixel Board Lenses

- Type: M12
- Available focal lengths: 1.4-16 mm
- 12 different Lenses
- Format: Up to 1/2"
- Optical Resolution: 5 megapixel



Model	Format	Mount	Iris Range	Focal Length	IR Cut Filter
TBL 1.4 5MP	1/2.5	M12x0.5	2.0	1.4	0
TBL 1.4 C 5MP	1/2.5	M12x0.5	2.0	1.4	1
TBL 2.5 5MP	1/2.5	M12x0.5	2.4	2.5	0
TBL 2.5 C 5MP	1/2.5	M12x0.5	2.4	2.5	1
TBL 2.9 5MP	1/2.5	M12x0.5	2.0	2.9	0
TBL 2.9 C 5MP	1/2.5	M12x0.5	2.0	2.9	1
TBL 3.6 5MP	1/2.5	M12x0.5	1.8	3.6	0
TBL 3.6 C 5MP	1/2.5	M12x0.5	1.8	3.6	1
TBL 4 5MP	1/2.5	M12x0.5	1.8	4	0
TBL 4 C 5MP	1/2.5	M12x0.5	1.8	4	1
TBL 6 5MP	1/2.5	M12x0.5	1.8	6	0
TBL 6 C 5MP	1/2.5	M12x0.5	1.8	6	1
TBL 8 5MP	1/2.5	M12x0.5	1.8	8	0
TBL 8 C 5MP	1/2.5	M12x0.5	1.8	8	1
TBL 8.4-2 5MP	1/2	M12x0.5	2.8	8.4	-
TBL 8.4-2 C 5MP	1/2	M12x0.5	2.8	8.4	1
TBL 9.6-2 C 3MP	1/2	M12x0.5	3.0	9.6	1
TBL 12-2 5MP	1/2	M12x0.5	2.8	12	-
TBL 12-2 C 5MP	1/2	M12x0.5	2.8	12	1
TBL 12 3MP	1/2.5	M12x0.5	1.6	12	-
TBL 12 C 3MP	1/2.5	M12x0.5	1.6	12	1
TBL 16 3MP	1/2.5	M12x0.5	1.6	16	-
TBL 16 C 3MP	1/2.5	M12x0.5	1.6	16	1

The Imaging Source Low Distortion Lenses

- Type: M12
- Available focal lengths: 3.5-16 mm
- 5 different Lenses
- Format: Up to 1/1.8"
- Optical Resolution: Up to 10 megapixel



Model	Format	Mount	Iris Range	Focal Length	IR Cut Filter	Distortion
TBN 3.5 3MP	1/2.5	M12x0.5	1.8	3.5	-	1.50
TBN 4.5 3MP	1/1.8	M12x0.5	1.8	4.5	-	2.8
TBN 4.5 C 3MP	1/1.8	M12x0.5	1.8	4.5	1	2.8
TBN 5.4 10MP	1/2.3	M12x0.5	2.5	5.4	-	2.0
TBN 5.4 C 10MP	1/2.3	M12x0.5	2.5	5.4	1	2.0
TBN 7.2 10MP	1/2.3	M12x0.5	2.4	7.2	-	1.5
TBN 7.2 C 10MP	1/2.3	M12x0.5	2.4	7.2	1	1.5
TBN 16 5MP	1/1.8	M12x0.5	1.8	16	-	0.65
TBN 16 C 5MP	1/1.8	M12x0.5	1.8	16	1	0.65



The Imaging Source Video to USB Converter

- Dimensions 27 x 56 x 95 mm
- Video / Audio to USB
- Free measurement tool included
- Free barcode SDK included



Despite the fast growing world of digital cameras, there is still an enormous number of analog video sources. Using a Video-to-USB converter, such as the DFG/USB2pro and the DFG/USB2aud, analog video sources become usable in a digital environment.

The DFG/USB2pro converts analog video signals (PAL, NTSC, CCIR, EIA) into uncompressed image data streams. The DFG/USB2aud additionally converts analog audio signals.

Included:

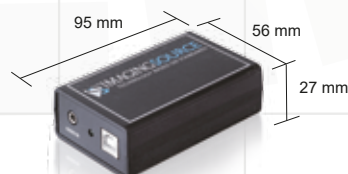
- Converter
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10, Vista, XP
- Free barcode SDK for W 7/8/10

Features:

- Inputs: composite and Y/C
- Output DFG/USB2pro: USB 2.0, uncompressed image data stream without audio
- Output DFG/USB2aud: USB2.0, uncompressed image and audio data stream
- Video formats: PAL/CCIR, NTSC/RS-170
- Max resolution (NTSC/RS-170): 640x480 @ 30 Hz
- Max resolution (PAL/CCIR): 768x576 @ 25 Hz

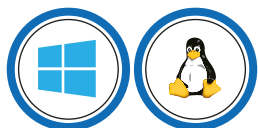
Additional Features Audio Version:

- Inputs: Audio
- Output: USB 2.0, uncompressed image stream with audio



The Imaging Source HD-SDI to USB 3.0 Converter

- Dimensions 27 x 56 x 95 mm
- HD-SDI to USB 3.0
- Free measurement tool included
- Free barcode SDK included



HD-SDI is a serial, digital interface, primarily designed to transmit uncompressed and unencrypted video data over one or more coaxial cables with BNC connectors at a nominal impedance of 75 ohms. The cabling and connector type are relics from the previous analog video signal standard. When using high quality cable, the maximum cable length can be up to 100 meters.

The DFG/HDSDI converts digital serial video signals into uncompressed image data streams for USB 3.0 interfaces.

Included:

- HD-SDI converter
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, and a C++ class library for W 7/8/10, Vista, XP
- Free barcode SDK for W 7/8/10

Features:

- Inputs: HD-SDI
- Output: USB 3.0, uncompressed image data stream
- Video formats:
 - SD 525i and 625i
 - HD 720p
 - HD 1080i
 - HD 1080p



Customized Cameras

- Save time and money
- You design, we manufacture
- Take advantage of our experience

NEW



In addition to manufacturing a wide variety of ready-made machine vision cameras, The Imaging Source also manufactures customized camera solutions for customer-specific requirements. Customers may specify minor or major changes to casing design, PCB layout, connection type, location and pinning, in addition to alterations to software drivers and end-user applications. The Imaging Source guarantees to manufacture customized camera solutions to the same high technical level as our ready-made cameras.

OEM customers have direct access to our decades of experience, and our internal design and development processes, to ensure customized camera solutions fulfill customer-specific requirements perfectly. Furthermore, The Imaging Source offers feasibility studies, application-specific training, and practical advice for the integration of our products into customer-specific solutions.

Customization services:

- Camera setup services, such as cable, lens and mount installation.
- OEM solutions: Modifications to shape, size and design of casing and labeling.
- Customized connector type, location and pinning.
- Modifications to camera casing, or PCB shape in the case of board cameras.
- Modifications to PCB and other electronic components.
- Customization of software drivers and end-user applications.



Software for The Imaging Source Cameras

- SDKs, end-user software, tools
- W 7/8, Vista and XP
- Linux open source

```
Private Sub Form_Load()  
    Dim ImageData As Variant  
    Dim x, y As Integer  
    Dim Threshold As Integer  
  
    Threshold = 150  
    ICImagingControl1.Device = "DMK 23G618"  
    ICImagingControl1.VideoFormat = "Y800 (640x480)"  
    ICImagingControl1.MemoryCurrentGrabberColorformat = ICY8  
  
    ICImagingControl1.MemorySnapImage  
    ImageData = ICImagingControl1.MemoryGetImageData  
    For y = 0 To ICImagingControl1.ImageHeight - 1  
        For x = 0 To ICImagingControl1.ImageWidth - 1  
            If ImageData(x, y) < Threshold  
                ImageData(x, y) = 0  
            Else  
                ImageData(x, y) = 255  
            End If  
        Next x  
    Next y  
    ICImagingControl1.MemoryReleaseImageData ImageData  
    ICImagingControl1.Display  
End Sub
```

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 downloaded directly from our web site.

Windows:

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 downloaded directly from our website:

<http://www.theimagingsource.com>



Linux:

- Linux support from the manufacturer
- For USB, GigE and FireWire cameras
- Open source drivers and software
- Apache license 2.0
- Debian, Ubuntu, CentOS and Red Hat
- Get involved at GitHub.com :

<https://github.com/TheImagingSource/tiscamera>



The Imaging Source - IC Barcode

- Reads multiple barcodes at any orientation
- Comes free with all The Imaging Source cameras
- Easy to use SDK with sample application



IC Barcode is a highly accurate and powerful developer library, which recognizes 1D and 2D barcodes from digital images. Using this SDK, you can integrate barcode recognition functionality into your document processing systems and Windows applications. The unique and fast barcode recognition algorithm searches for barcodes in any position and orientation in your images.

Key features:

- Read multiple 1D and 2D barcodes at any orientation.
- Report comprehensive information with 100% confidence for all detected barcodes, such as the barcode type, data string, location, check digit, etc.
- High-speed barcode recognition. All barcodes in an image are located and reported back in a fraction of a second.
- Speed up the whole process of barcode detection and decoding, by configuring the options to read only barcodes of a certain type or orientation, or limit processing to a region of interest.

Supported 1D Barcodes:

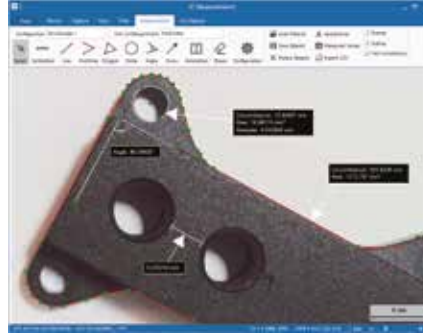
- EAN8
- EAN13
- CODE39
- CODE93
- CODE128
- UPC_A
- APC_E
- INTERLEAVED_2_OF_5

Supported 2D Barcodes:

- AZTEC
- DATA_MATRIX
- QR_CODE
- MAXICODE
- PDF417

The Imaging Source - IC Measure

- On-screen image measurement tools
- Easy-to-use image and AVI capture
- Comes free with all The Imaging Source cameras



IC Measure is a powerful end-user application for microscopy measurement and image acquisition using any video device, manufactured by The Imaging Source, including industrial cameras, frame grabbers and video converters. All the properties of video devices, such as video formats, exposure times and many more can be set. It has been specially developed for microscopy applications and is very easy to use.

Measurement:

IC Measure provides multiple tools for manual measurement (circles, lines, polygons and angles). Using the intuitive interface, it is easy to measure lengths, angles, areas and perimeters directly on the live preview and export the measured data to any spreadsheet application via the CSV export function.

Annotations:

Using IC Measure's annotation tools, features of interest can be marked and provided with text annotations. The annotations are fully customizable in font, size and color.

Filters:

IC Measure includes advanced image processing filters for optical distortions correction (Barrel and Pincushion distortion) and enhancement tools to discover details within your images (histogram equalization, sharpness, brightness and contrast).

On-screen Calibration:

IC Measure's on-screen calibration tools, allow you to easily calibrate the software using a stage micrometer, millimeter paper or virtually any object of known size. Therefore, the software can also be used for measuring tasks outside the field of microscopy. The scale of an image can be easily redefined, in order to express values of measure in inches, millimeters, micrometers, nanometers or almost any unit of measurement.

Save and Load Measurement Objects:

All measurement objects placed in IC Measure can be stored and used for future projects.

Acquisition of Single Images:

Single image frames can be captured from the live video stream and can be saved to a BMP, TIFF or JPEG file.

Acquisition of an Image Sequence:

A number of frames can be acquired and saved to a sequence of image files. This can be done by pressing the space key, pressing a foot switch or automatically, using a timer. The timer allows the time interval to be defined between two images. The number of image frames, which are saved can be limited by either a specific number of by a time limit.



The Imaging Source - Software Services

- Consulting
- Training
- Feasibility studies
- System architecture

NEW



In the design and realization of machine vision systems, we will support you in every possible way - whether with in-depth consultation or by creating an integrated overall concept. Even well-versed professionals depend on our team's extensive machine vision know-how.

Consulting:

Professional support for your project.

Over 20 years of experience enables us to offer a range of consulting services from telephone consultation and initial concept development to feasibility studies and prototype development (hardware and software). In the event our products don't meet your application's needs, we will of course use thoroughly-tested products from third-party service providers.

Training:

Custom-made training programs.

Rather than traditional training sessions, The Imaging Source offers customized seminars that are tailored to your particular inspection task.

Feasibility Studies:

Evaluation of your project.

Looking at your machine vision task and system requirements, our team of experts will make precise suggestions on how your specific task may be solved. Using HDevelop, we will even write sample applications to illustrate our suggestions. We will also show you how you can acquire the necessary images using our portfolio of cameras and accessories.

System Architecture:

Custom design & development.

We will work with you to meet any machine vision challenge – regardless of whether it's a 2D or 3D vision solution or simply an application with demanding specifications. Our experienced interdisciplinary team has created thousands of machine vision systems - from pure image capture and archive applications to the precision measurement (10 µm range) of machine parts.

Machine Vision Software - Halcon/Merlic

- Consulting
- Technical Support
- Custom-made training programs
- MVTec Certified Training Partner



As an MVTec distributor, we want to assist you as quickly as possible with questions pertaining to HALCON and MERLIC. Therefore, we have dedicated in-house specialists for MVTec's imaging programs and software libraries. Our highly-experienced support team is available to assist you quickly and efficiently with any problems that may arise.

Consulting & Technical Support:

Because of the variety of tasks and the corresponding breadth of potential solutions in machine vision, it is often difficult to determine which solution will deliver the best combination of value and efficiency in a particular application. Not only will we help you in the selection of the right hardware, but we will also actively support you throughout the process - starting from the development of simple user interfaces (via sample programs or support in HDevelop Script) all the way up to prototyping.

Training:

Attend one of our regular MERLIC training seminars or schedule a HALCON or MERLIC training seminar tailored to your topic or application.

HALCON:

HALCON is the comprehensive standard software for machine vision with an integrated development environment (IDE) that is used worldwide. It enables cost savings and improved time to market.

MERLIC:

MERLIC is an all-in-one software product for quickly building machine vision applications without programming. It is based on MVTec's extensive machine vision expertise and combines reliable, fast performance with ease of use.



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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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