







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 3.1, USB 3.0, USB 2.0 and GigE 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:

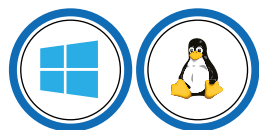
Additionally, The Imaging Source authors and supports open source drivers and end-user software for Linux. The Linux source code, which is released under the Apache License 2.0, enables you to integrate all machine vision cameras into popular Linux distributions. The Open Source code is available to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

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



The Imaging Source GigE 33e Series Cameras

- Dimensions 44 x 29 x 57 mm
- GigE Vision compliant
- Large image buffer
- Free measurement tool included
- Free barcode SDK included



Pregius STARVIS

Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DxK 33GP1300e	1280 x 1024	1.3	4.8 µm	90 fps	OnSemi P1300	1/2" CMOS	8/10 bit
DxK 33GX290e	1920 x 1080	2.1	2.9 µm	56 fps	Sony IMX290***	1/2.8" CMOS	8/12 bit
DxK 33GP2000e	1920 x 1200	2.3	4.8 µm	50 fps	OnSemi P2000	2/3" CMOS	8/10 bit
DxK 33GX174e	1920 x 1200	2.3	5.86 µm	50 fps	Sony IMX174**	1/1.2" CMOS	8/12 bit
DxK 33GX249e	1920 x 1200	2.3	5.86 µm	48 fps	Sony IMX249**	1/1.2" CMOS	8/12 bit
DxK 33GX265e	2048 x 1536	3.1	3.45 µm	36 fps	Sony IMX265**	1/1.8" CMOS	8/12 bit
DxK 33GX264e	2448 x 2048	5	3.45 µm	24 fps	Sony IMX264**	2/3" CMOS	8/12 bit
DxK 33GP5000e	2592 x 2048	5.3	4.8 µm	22 fps	OnSemi P5000	1" CMOS	8/10 bit
DxK 33GX178e	3072 x 2048	6.3	2.4 µm	19 fps	Sony IMX178***	1/1.8" CMOS	8/12 bit
DxK 33GJ003e	3856 x 2764	10.7	1.67 µm	11 fps	Aptina MT9J003	1/2.3" CMOS	8/12 bit

* x (M = monochrome | F = color)

** = SONY Pregius sensor

*** = SONY STARVIS sensor

With an assortment of global and rolling shutter CMOS sensors to choose from as well as on-board image pre-processing and frame buffering, the "33e" GigE camera series offers a broad portfolio of ethernet cameras that are ideal for any number of machine vision applications. A Hirose port allows for a variety of input, output, strobe and trigger options, and the Gigabit Ethernet interface enables easy setup and integration into existing and new applications.

Included:

- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivisionTools, 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
- Power over Ethernet
- Direct power option
- Optional external DC driven auto iris controller

Accessories:

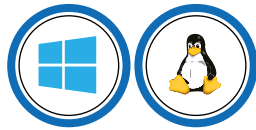
- CS to M12 adapters
- C, CS and M12 lenses
- 12VDC power adapter
- 6-pin Hirose break-out cable
- External power and trigger cable



GiG
VISION

The Imaging Source GigE 33 Series Cameras

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



Pregius

Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DxK 33G618	640 x 480	0.3	5.6 µm	120 fps	Sony ICX618A	1/4" CCD	8/12 bit
DxK 33GV024	752 x 480	0.4	6 µm	100 fps	Aptina MT9V024	1/3" CMOS	8/12 bit
DxK 33G445	1280 x 960	1.2	3.75 µm	30 fps	Sony ICX445A	1/3" CCD	8 bit
DxK 33GR0134	1280 x 960	1.2	3.75 µm	70 fps	Aptina AR0134	1/3" CMOS	8/12 bit
DxK 33GP1300	1280 x 1024	1.3	4.8 µm	90 fps	OnSemi P1300	1/2" CMOS	8/10 bit
DxK 33G274	1600 x 1200	2	4.4 µm	20 fps	Sony ICX274A	1/1.8" CCD	8/12 bit
DxK 33GX249	1920 x 1200	2.3	5.86 µm	30 fps	Sony IMX249**	1/1.2" CMOS	8/12 bit
DxK 33GX174	1920 x 1200	2.3	5.86 µm	50 fps	Sony IMX174**	1/1.2" CMOS	8/12 bit
DxK 33GX236	1920 x 1200	2.3	2.8 µm	50 fps	Sony IMX236	1/2.8" CMOS	8/12 bit
DxK 33GP006	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006	1/2.5" CMOS	8/12 bit

* x (M = monochrome | F = color)

** = SONY Pregius sensor

The Imaging Source "33" series Gigabit Ethernet industrial cameras feature low-noise CCD and CMOS technology from Sony, ON Semiconductor and Aptina. The Gigabit Ethernet interface enables easy setup and integration into existing and new applications. For applications where longer cable lengths are required, GigE allows for cable lengths of up to 100 meters. With up to 120 fps and a trigger delay of less than 5 µs, the "33" camera series is a cost-effective and highly-versatile imaging solution.

Included:

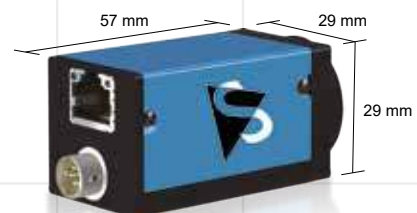
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET 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

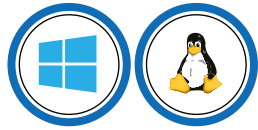


GIG
VISION

The Imaging Source 38 Series GigE Cameras

NEW

- Dimensions 29 x 44 x 60 mm
- New interface ix Industrial
- GigE Vision compliant
- Free measurement tool included
- Free barcode SDK included



Pregius

NEW

NEW

Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DxK 38GX267	4096 x 2160	9	3.45 µm	13 fps	Sony IMX267**	1" CMOS	8/12 bit
DxK 38GX304	4096 x 3000	12	3.45 µm	9 fps	Sony IMX304**	1.1" CMOS	8/12 bit

* x (M = monochrome | F = color)

** = SONY Pregius sensor

The Imaging Source "38 series" GigE industrial cameras are equipped with high-sensitivity, low-noise Sony Pregius global-shutter sensors which offer exceptional color fidelity. The 9 and 12 MP cameras are GigE Vision compliant and feature a compact and robust industrial design and support applications such as intelligent traffic systems (ITS), inspection tasks and automation as well as microscopy. Using the new ix Industrial Ethernet interface, which requires 70% less installation space than RJ45 and is set to replace RJ45 connectors, the cameras are ideal for applications with miniaturized requirements. An active locking mechanism ensures a secure, shock and vibration-resistant connection - making the need for locking screws obsolete. Additionally, the cameras' sensor sizes (2/3" and 1/1.8") mean they are easily combined with a variety of low-priced standard industrial lenses available from The Imaging Source.

Included:

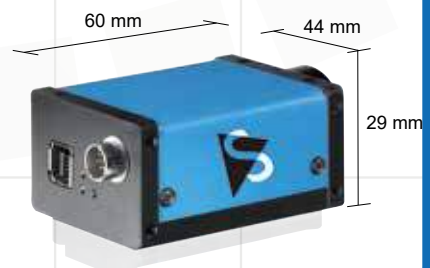
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET 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 mount (CS mount optional)
- Binning and ROI
- 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

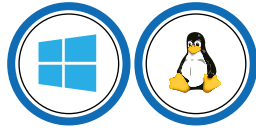


GIG
VISION

The Imaging Source 38 Series USB 3.1 Cameras

NEW

- Dimensions 29 x 44 x 60 mm
- New interface USB 3.1 (Gen 1)
- USB 3 Vision compliant
- Free measurement tool included
- Free barcode SDK included



Pregius

	Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
NEW	DxK 38UX267	4096 x 2160	9	3.45 µm	35 fps	Sony IMX267**	1" CMOS	8/12 bit
NEW	DxK 38UX255	4096 x 2160	9	3.45 µm	42 fps	Sony IMX255**	1" CMOS	8/12 bit
NEW	DxK 38UX304	4096 x 3000	12	3.45 µm	26 fps	Sony IMX304**	1.1" CMOS	8/12 bit
NEW	DxK 38UX253	4096 x 3000	12	3.45 µm	30 fps	Sony IMX253**	1.1" CMOS	8/12 bit

* x (M = monochrome | F = color)

** = SONY Pregius sensor

The Imaging Source "38 series" industrial cameras are equipped with highly-sensitive, low-noise Sony Pregius global-shutter sensors which offer exceptional distortion-free image quality and color fidelity. The 9 and 12 MP cameras support the USB3 Vision standard which ensures stability and compatibility for easy integration and flexible configuration. Available in color and monochrome, the cameras feature a compact and robust industrial design and support applications such as intelligent traffic systems (ITS), inspection tasks and automation as well as microscopy. Additionally, their sensor sizes (2/3" and 1/1.8") mean they are easily combined with a variety of low-priced standard industrial lenses available from The Imaging Source.

Included:

- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivisionTools, 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:

- Reversible Type-C connector
- Digital I/O strobe
- C mount (CS mount optional)
- Binning and ROI

Accessories:

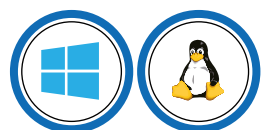
- CS to M12 adapters
- C, CS and M12 lenses
- USB 3.1 (Gen 1) cable



USB
VISION

The Imaging Source GigE 12x/30x Zoom Cameras

- Integrated motorized 12x/30x 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	1280 x 960	30 fps	Sony ICX445ALA	4.8 to 57,6 mm	F2.2 auto/man	auto/man
DFK Z12G445	GigE	1280 x 960	30 fps	Sony ICX445AQA	4.8 to 57,6 mm	F2.2 auto/man	auto/man
DMK Z12GX236	GigE	1920 x 1200	60 fps	Sony IMX236LLJ	4.8 to 57,6 mm	F2.2 auto/man	auto/man
DFK Z12GX236	GigE	1920 x 1200	60 fps	Sony IMX236LQJ	4.8 to 57,6 mm	F2.2 auto/man	auto/man
DMK Z12GP031	GigE	2592 x 1944	15 fps	Aptina MT9P031M	4.8 to 57,6 mm	F2.2 auto/man	auto/man
DFK Z12GP031	GigE	2592 x 1944	15 fps	Aptina MT9P006C	4.8 to 57,6 mm	F2.2 auto/man	auto/man
DMK Z30GP031	GigE	2048 x 1536	15 fps	Aptina MT9P031M	4.3 to 129 mm	F1.6 auto/man	auto/man
DFK Z30GP031	GigE	2048 x 1536	15 fps	Aptina MT9P006C	4.3 to 129 mm	F1.6 auto/man	auto/man

* DMK = monochrome | DFK = color

The Imaging Source 12x and 30x zoom cameras have an integrated 12x or 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, ActivisionTools, 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)

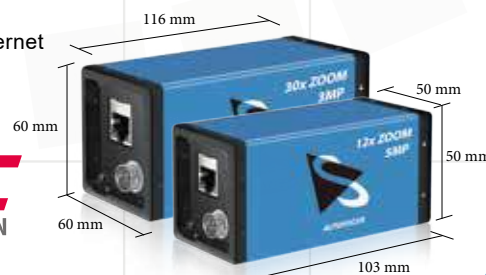
Features:

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

Accessories:

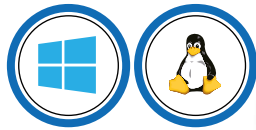
- 12VDC power adapter
- External power and trigger cable
- Close-up lenses for macro imaging

GiG
VISION



The Imaging Source Autofocus Cameras

- Dimensions 36 x 36 x 25 mm
- C/CS mount or integrated optics
- 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	10.7	1.67 µm	7 fps	Aptina MT9J003	1/2.3" CMOS
DFK AFU420-CCS	USB 3.0	7728 x 5368	42	1.12 µm	7fps	CMOS	2/3" CMOS
DFK AFU420-L62	USB 3.0	7728 x 5368	42	1.12 µm	7 fps	CMOS	2/3" CMOS
DxK 22AUC03-F	USB 2.0	744 x 1944	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

* 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 & automatic control
- For M12 lenses optimized
- Binning and ROI

For 42 MP Cameras:

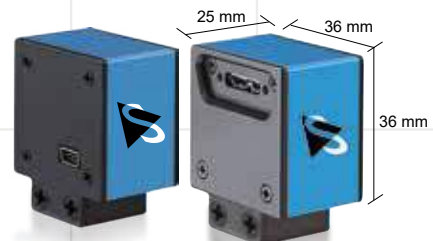
- Integrated Optics (f=6.2)
- C/CS/M12 mount adapter
- Binning and ROI

Accessories:

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

For 42 MP Cameras:

- CS to M12 adapters
- C/CS/M12 lenses



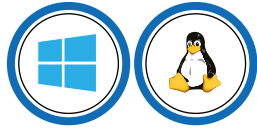
The Imaging Source 37 Series USB 3.1 CMOS Cameras

- Dimensions 36 x 36 x 25 mm
- New Interface USB 3.1
- USB 3 Vision compliant
- Free measurement tool included
- Free barcode SDK included

NEW



Pregius STARVIS



	Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
NEW	DxK 37AUX287	720 x 540	0.4	6.9 µm	539 fps	Sony IMX287**	1/2.9" CMOS	8/12 bit
NEW	DxK 37BUX287	720 x 540	0.4	6.9 µm	539 fps	Sony IMX287**	1/2.9" CMOS	8/12 bit
NEW	DxK 37AUX273	1440 x 1080	1.6	3.45 µm	238 fps	Sony IMX273**	1/2.9" CMOS	8/12 bit
NEW	DxK 37BUX273	1440 x 1080	1.6	3.45 µm	238 fps	Sony IMX273**	1/2.9" CMOS	8/12 bit
NEW	DxK 37AUX290	1920 x 1080	2.1	2.9 µm	143 fps	Sony IMX290***	1/2.8" CMOS	8/12 bit
NEW	DxK 37BUX290	1920 x 1080	2.1	2.9 µm	143 fps	Sony IMX290***	1/2.8" CMOS	8/12 bit
NEW	DxK 37AUX178	3072 x 2048	6.3	2.4 µm	60 fps	Sony IMX178***	1/1.8" CMOS	8/12 bit
NEW	DxK 37BUX178	3072 x 2048	6.3	2.4 µm	60 fps	Sony IMX178***	1/1.8" CMOS	8/12 bit

* x (M = monochrome | F = color)

** = SONY Pregius sensor

*** = SONY STARVIS sensor

"37" series industrial cameras offer Sony's latest high-performance STARVIS and Pregius Sony CMOS sensors with the USB 3.1 (gen. 1) reversible Type-C port connection. Designed specifically to meet the demands of industrial imaging, Pregius sensors provide excellent image quality for moving machine vision applications, while the STARVIS (IMX178) is optimal in environments where fluctuations in light or lower light levels are an issue. These USB Vision compliant cameras are well-suited to applications such as automated inspection, quality control and medical diagnostics.

Included:

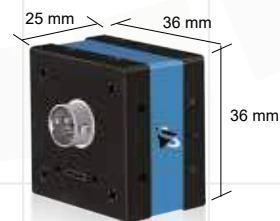
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including 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:

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

Accessories:

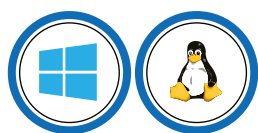
- CS to M12 adapters
- C, CS and M12 lenses
- USB 3.1 (Gen 1) cable



USB
VISION

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



Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DMK 27A(B)UR0135	1280 x 960	1.2	3.75 µm	60 fps	OnSemi AR0135 M	1/3" CMOS	8/12 bit
DFK 27A(B)UR0135	1280 x 960	1.2	3.75 µm	60 fps	OnSemi AR0135 C	1/3" CMOS	8/12 bit
DMK 27A(B)UP006	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006 M	1/3" CMOS	8/12 bit
DFK 27A(B)UP006	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006 C	1/3" CMOS	8/12 bit
DMK 27A(B)UJ003	3856 x 2764	10	1.67 µm	7 fps	Aptina MT9J003 M	1/2.3" CMOS	8/12 bit
DFK 27A(B)UJ003	3856 x 2764	10	1.67 µm	7 fps	Aptina MT9J003 C	1/2.3" CMOS	8/12 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

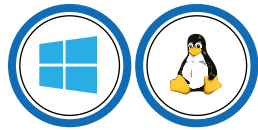
Accessories:

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



The Imaging Source 33 Series USB 3.0 CMOS Cameras

- Dimensions 29 x 29 x 47 mm
- Several CMOS sensors available
- Free measurement tool included
- Free barcode SDK included



Pregius STARVIS

Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DxK 33UP1300	1280 x 1024	1.3	4.8 µm	168 fps	OnSemi P1300	1/2" CMOS	8/10 bit
DxK 33UX290	1920 x 1080	2.1	2.9 µm	143 fps	Sony IMX290***	1/2.8" CMOS	8/12 bit
DxK 33UP2000	1920 x 1200	2.3	4.8 µm	129 fps	OnSemi P2000	2/3" CMOS	8/10 bit
DxK 33UX174	1920 x 1200	2.3	5.86 µm	162 fps	Sony IMX174**	1/1.2" CMOS	8/12 bit
DxK 33UX249	1920 x 1200	2.3	5.86 µm	48 fps	Sony IMX249**	1/1.2" CMOS	8/12 bit
DxK 33UX252	2048 x 1536	3.1	3.45 µm	120 fps	Sony IMX252**	1/1.8" CMOS	8/12 bit
DxK 33UX265	2048 x 1536	3.1	3.45 µm	60 fps	Sony IMX265**	1/1.8" CMOS	8/12 bit
DxK 33UX250	2448 x 2048	5	3.45 µm	75 fps	Sony IMX250**	2/3" CMOS	8/12 bit
DxK 33UX264	2448 x 2048	5	3.45 µm	38 fps	Sony IMX264**	2/3" CMOS	8/12 bit
DxK 33UP5000	2592 x 2048	5.3	4.8 µm	60 fps	OnSemi P5000	1" CMOS	8/10 bit
DxK 33UX178	3072 x 2048	6.3	2.4 µm	30 fps	Sony IMX178***	1/1.8" CMOS	8/12 bit
DxK 33UJ003	3856 x 2764	10.7	1.67 µm	14 fps	Aptina MT9J003	1/2.3" CMOS	8/12 bit

* x (M = monochrome | F = color)

** = SONY Pregius sensor

*** = SONY STARVIS 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

Accessories:

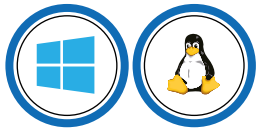
- CS to M12 adapters
- C, CS and M12 lenses
- 12-pin Hirose trigger cable



USB[®]
VISION

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:

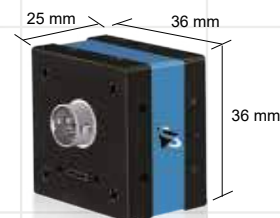
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including 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

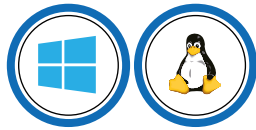
Accessories:

- 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 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



Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DFK 73AUC04	2592 x 1944	5	1.4 µm	10 fps	Omni OV5640	1/4" CMOS	8 bit
DFM 73AUC04-ML	2592 x 1944	5	1.4 µm	10 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:

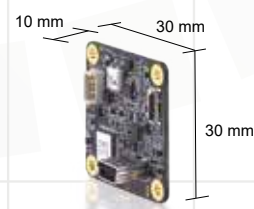
- Camera, CS to C mount adapter and tripod mount
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10
- IC Imaging Control Software Development Kit (SDK) including a .NET 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:

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

Accessories:

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



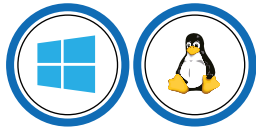
The Imaging Source 37 Series USB 3.1 CMOS Board Cameras

- Dimensions 30 x 30 x 15 mm
- New interface USB 3.1 (Gen 1)
- Sony STARVIS & Pregius CMOS sensors
- Free measurement tool included
- Free barcode SDK included

NEW



Pregius STARVIS



	Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
NEW	DxM 37AUX287-ML	720 x 540	0.4	6.9 µm	539 fps	Sony IMX287**	1/2.9" CMOS	8/12 bit
NEW	DxM 37BUX287-ML	720 x 540	0.4	6.9 µm	539 fps	Sony IMX287**	1/2.9" CMOS	8/12 bit
NEW	DxM 37UX273-ML	1440 x 1080	1.6	3.45 µm	238 fps	Sony IMX273**	1/2.9" CMOS	8/12 bit
NEW	DxM 37UX273-ML	1440 x 1080	1.6	3.45 µm	238 fps	Sony IMX273**	1/2.9" CMOS	8/12 bit
NEW	DxM 37UX290-ML	1920 x 1080	2.1	2.9 µm	143 fps	Sony IMX290***	1/2.8" CMOS	8/12 bit
NEW	DxM 37UX290-ML	1920 x 1080	2.1	2.9 µm	143 fps	Sony IMX290***	1/2.8" CMOS	8/12 bit
NEW	DxM 37UX178-ML	3072 x 2048	6.3	2.4 µm	60 fps	Sony IMX178***	1/1.8" CMOS	8/12 bit
NEW	DxM 37UX178-ML	3072 x 2048	6.3	2.4 µm	60 fps	Sony IMX178***	1/1.8" CMOS	8/12 bit

* x (M = monochrome | F = color)

** = SONY Pregius sensor

*** = SONY STARVIS sensor

As with the "37" series industrial cameras, the board-level versions feature Sony's STARVIS and Pregius sensors – the first sensors developed by Sony especially for industrial applications. These USB Vision compliant cameras deliver superb image quality suitable for demanding embedded machine vision tasks - making them a cost-effective solution for a range of applications such as intelligent traffic systems (ITS), optical inspection, medical engineering, logistics etc. The cameras' small form-factor (30 x 30 x 12 mm) and reversible Type-C port connection allow for easy integration in applications adhering to the standard.

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 & measurement tool for W 7/8/10
- Open source drivers and end-user software for Linux (Apache License 2.0)

Features:

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

Accessories:

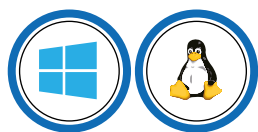
- M12 lenses
- USB 3.1 (Gen 1) cables

USB
VISION



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 | 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 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:

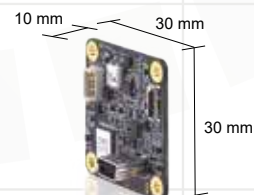
- Camera
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component,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

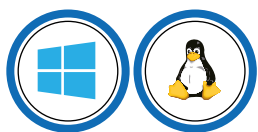
Accessories:

- 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



Model*	Resolution	Megapixel	Pixel Size	Frame Rate	Sensor	Sensor Size	A/D
DMM 27UR0135-ML	1280 x 960	1.2	3.75 µm	60 fps	OnSemi AR0135	1/3" CMOS	8/12 bit
DFM 27UR0135-ML	1280 x 960	1.2	3.75 µm	60 fps	OnSemi AR0135	1/3" CMOS	8/12 bit
DMM 27UP006-ML	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006 M	1/2.5" CMOS	8/12 bit
DFM 27UP006-ML	2592 x 1944	5	2.2 µm	15 fps	Aptina MT9P006 C	1/2.5" CMOS	8/12 bit
DMM 27UJ003-ML	3856 x 2764	10.7	1.67 µm	7 fps	Aptina MT9J003 M	1/2.3" CMOS	8/12 bit
DFM 27UJ003-ML	3856 x 2764	10.7	1.67 µm	7 fps	Aptina MT9J003 C	1/2.3" CMOS	8/12 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:

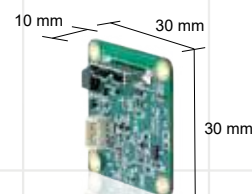
- Camera
- Drivers compatible to DirectShow, DirectX, TWAIN, VFW, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component,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

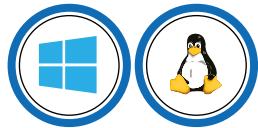
Accessories:

- 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	2.3	2.8 μ m	36 fps	Sony IMX236LL	1/2.8" CMOS	8/12 bit
DFM 25GX236-ML	1920 x 1200	2.3	2.8 μ m	36 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 | DFK = 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:

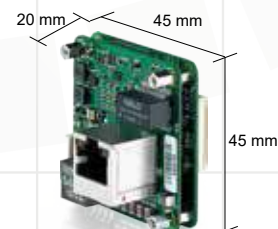
- Camera
- Drivers compatible to DirectShow, DirectX, TWAIN, Vfw, WDM, ActivVisionTools, HALCON, LabVIEW, Matlab, and NeuroCheck
- IC Capture camera control and acquisition software for W 7/8/10, Vista, XP
- IC Imaging Control Software Development Kit (SDK) including a .NET component, an ActiveX component, 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 of 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
TCSL 0418 5MP	1/2.5	CS	1.8	0.1	4	-	28
TCL 0616 5MP	1/1.8	C	1.6-16	0.1	6	M34x0.5	110
TCSL 0618 5MP	1/2.5	CS	1.8	0.1	6	-	33
TCL 0814 5MP	1/1.8	C	1.4-16	0.1	8	M27x0.5	94
TCSL 0818 5MP	1/2.5	CS	1.8	0.1	8	-	35
TCL1216 5MP	2/3	C	1.6-16	0.1	12	M27x0.5	100
TCL 1616 5MP	2/3	C	1.6-16	0.2	16	M27x0.5	108
TCL 2518 5MP	2/3	C	1.8-16	0.3	25	M27x0.5	86
TCL 3520 5MP	2/3	C	2.0-16	0.4	35	M27x0.5	84
TCL 5026 5MP	2/3	C	2.6-32	0.5	50	M30.5x0.5	113
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	M12 x 0.5	2.0	1.4	0
TBL 1.4 C 5MP	1/2.5	M12 x 0.5	2.0	1.4	1
TBL 2.5 5MP	1/2.5	M12 x 0.5	2.4	2.5	0
TBL 2.5 C 5MP	1/2.5	M12 x 0.5	2.4	2.5	1
TBL 2.9 5MP	1/2.5	M12 x 0.5	2.0	2.9	0
TBL 2.9 C 5MP	1/2.5	M12 x 0.5	2.0	2.9	1
TBL 3.6 5MP	1/2.5	M12 x 0.5	1.8	3.6	0
TBL 3.6 C 5MP	1/2.5	M12 x 0.5	1.8	3.6	1
TBL 4 5MP	1/2.5	M12 x 0.5	1.8	4	0
TBL 4 C 5MP	1/2.5	M12 x 0.5	1.8	4	1
TBL 6 5MP	1/2.5	M12 x 0.5	1.8	6	0
TBL 6 C 5MP	1/2.5	M12 x 0.5	1.8	6	1
TBL 8 5MP	1/2.5	M12 x 0.5	1.8	8	0
TBL 8 C 5MP	1/2.5	M12 x 0.5	1.8	8	1
TBL 8.4-2 5MP	1/2	M12 x 0.5	2.8	8.4	-
TBL 8.4-2 5MP	1/2	M12 x 0.5	2.8	8.4	1
TBL 9.6-2 C 3MP	1/2	M12 x 0.5	3.0	9.6	1
TBL 12-2 5MP	1/2	M12 x 0.5	2.8	12	-
TBL 12-2 C 5MP	1/2	M12 x 0.5	2.8	12	1
TBL 12 3MP	1/2.5	M12 x 0.5	1.6	12	-
TBL 12 C 3MP	1/2.5	M12 x 0.5	1.6	12	1
TBL 16 3MP	1/2.5	M12 x 0.5	1.6	16	-
TBL 16 C 3MP	1/2.5	M12 x 0.5	1.6	16	1

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



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, ActivisionTools, 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

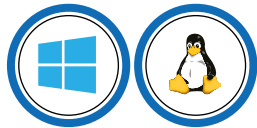
Additional Features Audio Version:

- 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/HDSOI 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



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:

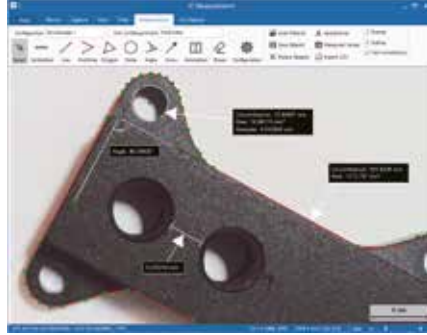
- EAN8
- EAN13
- CODE39
- CODE93
- CODE128
- UPC_A
- APC_E
- INTERLEAVED_2_OF_5

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:

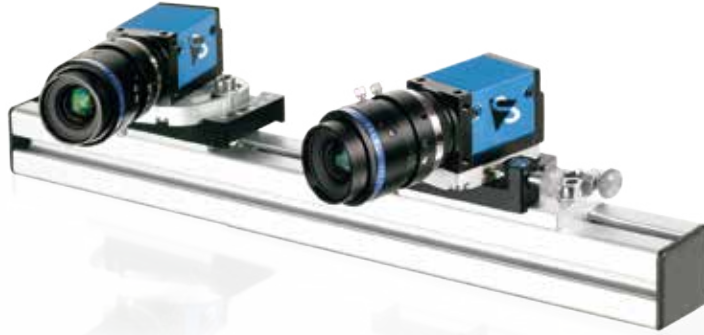
A number of frames can be acquired and saved to a sequence of image files. This can be done by pressing the space key, pressing a foot switch or automatically, using a timer. The timer allows the time interval to be defined between two images. The number of image frames, which are saved can be limited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



The Imaging Source - IC 3D

- Create your own stereo camera system
- Easily change your measurement volume
- Bundled with 3D calibration / viewer software and a C/C++ SDK

NEW



IC 3D is an end-user software for the capture of 3D data produced by The Imaging Source's stereo camera system. Unique in its flexibility, this stereo camera system can be used with a variety of industrial cameras from The Imaging Source and can be easily adjusted to new working distances and depths of field through the modification of camera distances and angles. The IC 3D software offers a convenient user interface for system calibration and the capture and visualization of 3D data.

Key features:

- Compatible with a variety of industrial cameras from The Imaging Source
- Easily adaptable to new working distances and volumes
- In systems with existing GPU, GPU-accelerated capture of 3D data
- Easy calibration
- Rapid visualization of depth cards and point clouds
- Compatible with structured light sources for low-contrast surfaces

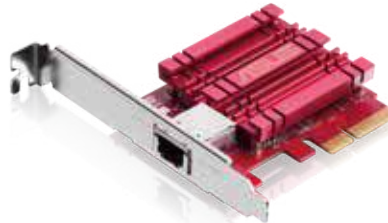
Hardware:

The IC 3D stereo camera system consists of two compatible industrial cameras, which are selected based on application requirements and mounted to a stable track. This track allows for rapid adjustments to camera distances and angles to realize various working distances and measurement volumes.

The Imaging Source - IC USB 3 to 10 GigE Converter Software

NEW

- Bridge greater distances while using USB 3
- Achieve full-speed USB 3 transmission
- Comes free with all The Imaging Source cameras



An application requiring the use of high-speed, high-resolution cameras, cannot realize the benefits provided by a GigE interface due to the limited bandwidth. USB offers a potential alternative but is limited to short cable lengths. A solution to this dilemma is the IC USB 3 to 10 GigE software converter. A mini PC (e.g. Intel NUC) is connected to a high-resolution USB 3 camera which via the software functions as a converter - transmitting the image data from the camera to a 10 GigE interface. The attached camera can then be controlled by any PC with a 10 GigE interface as a regular GigE Vision camera.

The software converter supports all of The Imaging Source's USB 3 cameras. This solution is especially relevant when trying to bridge greater distances while using USB 3 cameras with Sony Pregius and On Semiconductor PYTHON sensors. For the first time, it is possible to achieve full-speed USB 3 transmission over Cat6 and fiber optical cables which are used over long distances.

HARDWARE SAMPLES FOR CAT6 AND FIBER



The Imaging Source - Software Services

- Consulting
- Training
- Feasibility studies
- System architecture



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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US Office



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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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