Allied Vision

See the Bigger Picture

// WELCOME TO ALLIED VISION

We Focus on
What Counts: You

For more than 25 years, we at Allied Vision have been helping people see the bigger picture. From raising production standards to detecting disease faster or simply knowing who crossed the finish line first, we know that precision and truth are vital factors in every situation.

This is why we focus on what counts: the individual needs of our customers and end users. Being close to our customers means that we ask the right questions in order to tailor solutions to their needs and provide support where it matters most.

Focusing on what counts for our customers also means delivering best-in-class quality and reliability. Our Total Quality Management (TQM) is certified in accordance with ISO 9001 and the ISO 13485 standard for medical devices. The three-year warranty on our current camera models reflects our commitment to quality.

This philosophy allowed us to become one of the world's leading providers of digital cameras solutions for industrial and scientific image processing.

// WORKING WITH US

Insightful Collaboration

At Allied Vision, we deliver imaging solutions for a vast variety of applications. While some of them may be comparable, each one has its own individual requirements.

This is why we determine the essential aspects of your particular task with you, and develop an all-around solution that is ideally suited to your needs. We take all factors into consideration from the start: hardware, optics, accessories, software, interfaces, and support.

Building on the expertise and experience of 25 years in the machine vision sector, we can zoom in closely on your target while keeping the bigger picture in view. You will receive a holistic solution that precisely matches your needs. As these needs may evolve in the future, our support teams in Europe, North America and Asia, will remain at your side to provide fast and professional support years after your original purchase.

// INDUSTRIAL INSPECTION

Efficient Inspection in Industrial Environments

From fruit sorting to mining, there are thousands of different applications for machine vision cameras in the industrial field – each with its own special requirements. Whether it's having the right housing format, frame rate, temperature range or software, Allied Vision has a diverse range of offerings to suit your needs.

// MEDICAL & SCIENCE
Pushing the Boundaries
of Human Knowledge

Whether aboard the International Space Station, on the sea floor at 6,000 m depth, or tracking the eye movement of a Multiple Sclerosis patient – Allied Vision cameras have been instrumental to the progression in the medical and scientific field.

We hold an ISO 13485 certification for the development and production of cameras for medical devices, with a white medical housing available upon request.

// ITS & TRAFFIC MONITORING
Paving the Way for Intelligent
Transportation Systems

The future of traffic monitoring belongs to digital imaging. Allied Vision has contributed to the advancement of speed enforcement, red light enforcement, open road tolling, parking management and many other ITS systems. We even have developed specific camera models to meet the rigors of outdoor operation. No matter your requirements, we are dedicated to working with you to provide you with the best imaging solution for your traffic imaging application.

Full-Service Package for Your Vision

Advice and Service

Our international network in more than thirty countries always guarantees you a contact partner who speaks your language and can provide the expert advice you need. You can continue to count on us years after you purchased our product. Our worldwide support and application engineering team is on call to help you 24 hours on each working day, whenever emergencies occur.

// Consultancy   // Integration   // 24/5 support

Cameras

In all price classes, digital cameras from Allied Vision offer superior reliability, outstanding image quality, and powerful image-optimization functions. With one of the broadest product portfolios on the market, we are able to offer the ideal camera for almost any application. And if we can't deliver a suitable standard product – we can customize your camera or build it according to your needs.

// Extensive range   // Modular design   // OEM development

Accessories

Allied Vision always has stock on hand for every application. Whether you need cables, plugs, host adapters, or lenses, we provide everything from one single source – and guarantee full compatibility with our cameras.

// Accessories for several camera interfaces   // Recommended by Allied Vision

Software

Our Vimba software development kit is suitable for use with all Allied Vision cameras and is compatible with a wide selection of operating systems, interface technologies, programming languages and image-processing libraries. The GenICam standard ensures easy interconnection. Vimba is a future-proof and user-friendly software interface for your application.

// Platform-independent   // Interface-independent   // C/C++/.NET APIs

// OUR SOFTWARE

Versatile Software Interface for Easy Integration

Integrating your camera into an image-processing system couldn't be easier with our Vimba Software Development Kit (SDK). It comes with everything you need to develop your application – whether you program it yourself or rely on a third-party library.

Vimba is compatible with all popular image-processing software. It is platform and operating system-independent, supports all Allied Vision camera interfaces and all common programming languages. With its cross-compiling function, you can even re-use your code from one platform to another. In short, Vimba is as flexible as you need it to be.

For optimal system performance, Vimba's modular architecture allows you to install only the components you need to minimize overhead. The integrated camera drivers reduce CPU load.

Download Vimba free of charge and get started quickly with convenient tools such as the Vimba Viewer and our extensive ready-to-use example collection.

Features

VIMBA

// Operating systems:
   Windows, Linux, Linux ARMv7

// Interfaces: GigE, FireWire

// APIs: C, C++, .NET

// Based on GenICam

## // OUR ACCESSORIES

Selected for 100 % Performance

Every digital camera is only as good as its accessories. Our range of accessories is designed to deliver the best possible image quality to your application with the greatest possible reliability. Each lens in our range has been exhaustively tested to ensure maximum quality.

Every one of our interface cables has been electronically tested to ensure reliable data transfer over the required working distance. Is your camera attached to the arm of a robot or on a drag chain? We have a range of industry-compatible interface cables to stand up to your flexing and torsion demands. Do you want to operate a multi-camera network over long distances? We have the interface cards, hubs, and repeaters you need.

Never underestimate the role played by accessories in the overall performance of your image-processing system. Consult our experts for professional advice!

// MODULAR CONCEPT AND MODIFICATION

Maximum Adaptability
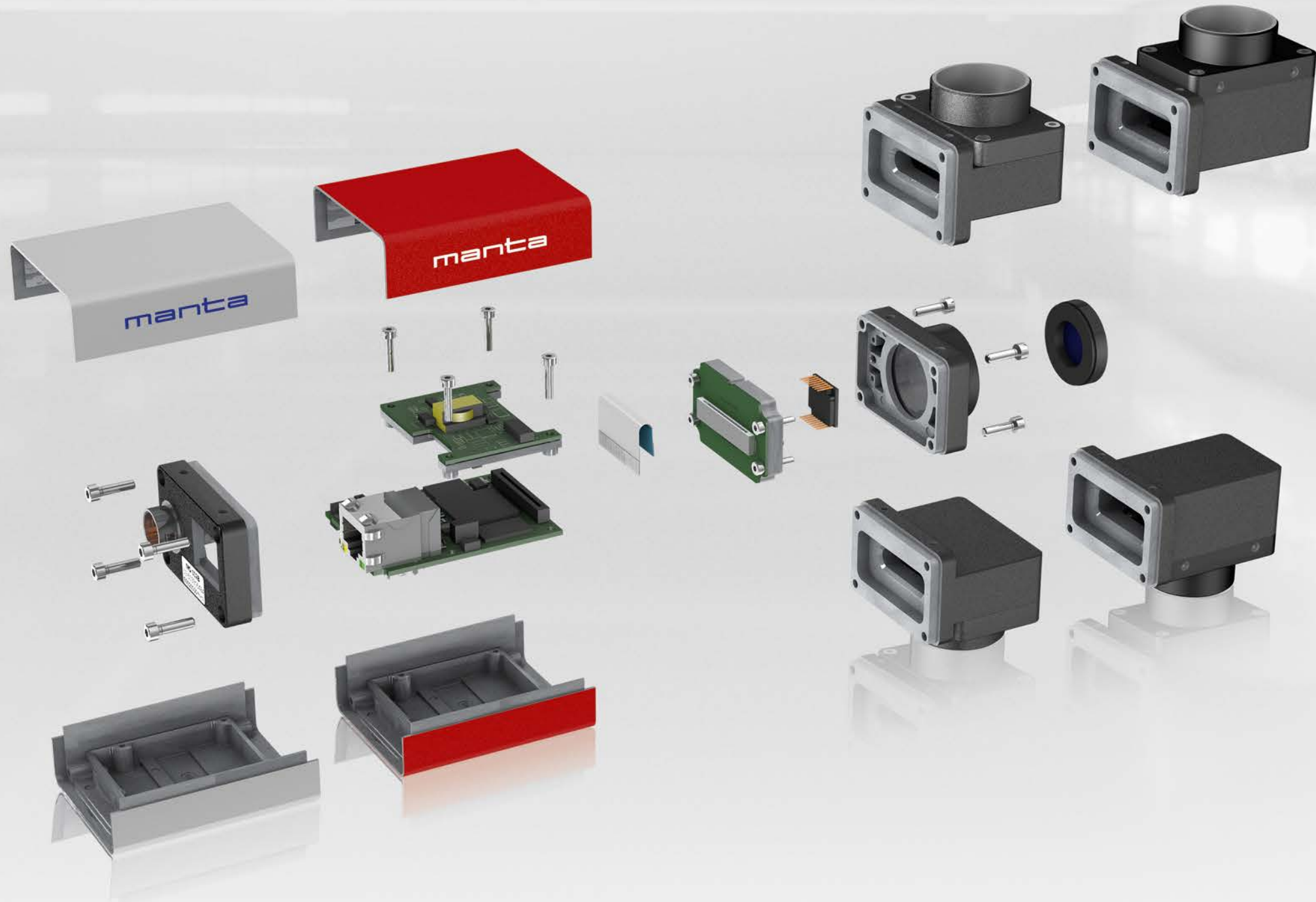
Some applications cannot be satisfied with a standard camera.
For demanding applications, we can customize an existing model or even design an individual solution for you.

To allow us to offer you a wide variety of options, our most popular camera models are all built in accordance with the Allied Vision modular concept. This means that many of the options you may require are already available – at short notice and attractive prices.

You can, for example, choose any of the following options:

// Standard/medical housing

// Angled heads

// Board level versions

// Optical filters

// Protection glass

// Power supply

Powerful Performance Across the Line

Essential

Ultra-compact affordable cameras for simple plug-and-play integration into commonly used image-processing systems. They are particularly suitable for classic inspection tasks in the industrial segment and, due to their compact dimensions, are also favourites for interactive multimedia applications.

// **Guppy PRO –** Concentrated simplicity   // **Mako –** Small and robust

Enhanced

High-performance industrial cameras with an extensive range of sensor options, modular construction, and integrated image optimization functions (smart features). Their versatility and outstanding value make them ideal for even the most demanding inspection and monitoring tasks.

// **Manta –** Freedom of choice   // **Stingray –** Smart modularity

Extreme

High-performance cameras with special features that exceed industrial standards. With high resolution, extended operating temperature ranges, or infrared sensitivity, they are designed and built to fulfill the most demanding requirements in industrial image processing or special applications such as traffic monitoring and scientific imaging.

// **Prosilica GT/GT Large** – Strong performance   // **Goldeye –** Excellent in infrared   **NEW!**

// Visit **alliedvision.com** for more models, full specifications and online camera finder.

Guppy PRO –
Concentrated Simplicity

FireWire

The Guppy PRO is Allied Vision's smallest economical FireWire camera. Its ultra-compact and extremely robust industrial housing unites quality with performance and enables it to be integrated in the smallest spaces. The wide range of CCD and CMOS sensors with a range of different resolutions enables you to choose the ideal Guppy PRO for your particular needs.

Key facts

// VGA to 5 Megapixels

// Sony CCD and Aptina CMOS sensors

// Up to 123 fps

Benefits and features

// Small, lightweight, robust metal housing

// Optocoupled I/Os

// Various filter and mount options

// LUT, gamma, debayering, color correction

// CMOS: Defect pixel correction, binning, decimation

Mako –
Small and Robust

GigE VISION

The Mako is an attractively priced GigE Vision camera in a compact and rugged industrial housing. As it has the same form factor and mounting points as many conventional analog cameras, it permits plug-and-play upgrading. All models offer Power over Ethernet, optocoupled inputs and outputs, and an image buffer for reliably controlled data transfer. Mako cameras are fitted with the latest high-quality CCD and CMOS sensors.

Key facts

// VGA to 5 Megapixels

// Sony CCD and CMOSIS, e2v and Aptina CMOS sensors

// Up to 309 fps

Benefits and features

// Small, lightweight, robust metal housing

// NIR-optimized variants

// Optocoupled I/Os

// Power over Ethernet (PoE)

// Various filter and mount options

// Look-up table, gamma, debayering, color correction

// Binning/decimation

// Easy bandwidth control

// ENHANCED

Manta –
Freedom of Choice

The Manta is Allied Vision's versatile GigE vision camera with a wide range of features. Particular highlights are three look-up tables (LUTs), sophisticated color correction capabilities, and numerous modular options – including angled heads and board level versions that enable integration in almost any application. As the Manta family offers a wide variety of sensors, including NIR-optimized variants, you can always find precisely the camera model you need for your specific application.

Key facts

// VGA to 9 Megapixels

// Sony CCD, Sony and CMOSIS CMOS sensors

// Up to 125 fps

Benefits and features

// NIR variants

// Power over Ethernet (PoE)

// Optocoupled I/Os, RS232

// Numerous mount and filter options

// Housing options: Board level, angled heads

// Look-up tables, gamma, color correction

// Binning, decimation

Stingray –
Smart Modularity

The Stingray offers a particularly wide range of functions and image optimization options – for example, shading correction and low-noise binning mode. Thanks to its modular and flexible design, it is a particularly versatile high-performance camera for a wide range of applications. It is also available in board level and compact versions. Extreme distances can be bridged with the optional optical fiber interface.

Key facts

// VGA to 5 Megapixels

// Sony CCD sensors

// Up to 84 fps

Benefits and features

// Daisy chain

// Glass Optical Fiber (GOF) interface

// Optocoupled I/Os, RS232

// Numerous options (mount and filter options)

// Housing options: Board level,
    compact housing, angled heads

// Sequence mode

// Shading correction

// Low-noise binning mode, high SNR mode

// Look-up table

// Binning, decimation

// EXTREME

Prosilica GT – Strong Performance

With robust thermal housings and precise iris and focus control, Prosilica GT cameras are constructed especially for use under tough outdoor conditions with extreme temperature variations and constantly changing light. Available with CCD and CMOS sensors with resolutions of up to 29 megapixels, the models of the Prosilica GT camera series are ideal for use in any challenging situation.

Key facts

// 1.3 to 29 Megapixels

// Sony and OnSemi CCDs, CMOSIS CMOS sensors

// Up to 62 fps

Benefits and features

// Wide operating temperature range

// P-iris and DC iris control

// F-Mount, Canon EF mount (with aperture and focus controls), M42-Mount and M58-Mount available

// NIR variants

// Power over Ethernet (PoE)

// Optocoupled and TTL I/Os, RS232

// Precision Time Protocol (PTP)

// Look-up Tables, gamma, color correction

// Binning

Goldeye – Excellent in Infrared NEW!

Goldeye short-wave infrared (SWIR) cameras are available in two different options: a compact ruggedized industrial design without fan and an advanced scientific design with nitrogen gas filled cooling chamber. All Goldeye cameras are equipped with active thermoelectric cooling (TEC) to reduce noise and enable extended exposure times as well as constant image quality, Goldeye cameras capture outstanding low-noise images and are the perfect choice for industrial and scientific applications beyond the visible spectrum.

Key facts

// VGA resolution

// InGaAs FPAs, 900 nm to 1700 nm

// Up to 100 fps

Benefits and features

// Power over Ethernet (PoE/PoE+)

// Built-in non-uniformity, defect-pixel and background correction

// Stabilized thermoelectric sensor cooling

// Analog high gain mode

// Optocoupled and TTL I/Os, RS232

// Look-up Tables

// Storable user sets

// Various mount and IR filter options

// Binning

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Guppy PRO

Model-specific:	F-031	F-032	F-032	F-046	F-095
Sensor	Sony ICX618	Sony ICX424	Sony ICX414	Sony ICX415	Sony ICX692
Resolution	656 x 492	656 x 492	656 x 492	780 x 580	1280 x 720
Megapixels	0.3	0.3	0.3	0.5	0.9
Sensor type	1/4 CCD	1/3 CCD	1/2 CCD	1/2 CCD	1/3 CCD
Max. frame rate	123 fps	82 fps	85 fps	62 fps	38 fps
Cell size	5.6 µm	7.4 µm	9.9 µm	8.3 µm	4.08 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no	yes/no/no

Model-specific:	F-125	F-146	F-201	F-503
Sensor	Sony ICX445	Sony ICX267	Sony ICX274	Aptina MT9P031
Resolution	1292 x 694	1388 x 1038	1624 x 1234	2588 x 1940
Megapixels	1.2	1.4	2	5
Sensor type	1/3 CCD	1/2 CCD	1/1.8 CCD	1/2.5 CMOS
Max. frame rate	31 fps	17 fps	14 fps	13 fps
Cell size	3.75 µm	4.65 µm	4.4 µm	2.2 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Family-specific:

Interface	IEEE 1394b - 800 Mb/s, 1 port
Operating temperature	+5 °C ... +45 °C ambient temperature
Power requirements	DC 8 V ... 36 V via 1394 cable or HIROSE
Power consumption	typ. < 3.5 W @ 12 V DC
I/Os	1 in, 3 out, opto-coupled
Dimensions (L x W x H)	44.8 x 29 x 29 mm incl. connectors, 80 g
Regulations	CE, FCC Class B, RoHS (2011/65/EU)

Options:

Modular concept

// Various IR cut/pass filters	// Angled head
// Removed cover glass (Stingray F-145 only)	// 1394b connectors: 2 x copper or 1 x GOF, 1 x copper
// Hirose power: out	// White medical housing
// CS/M12/F-Mount	// Compact housing version

Board level versions

// Board level versions available

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Mako

Model-specific:	G-030	G-032	G-050	G-095	G-125
Sensor	CMOSIS CMV300	Sony ICX424	Sony ICX693	Sony ICX692	Sony ICX445
Resolution	644 x 484	656 x 492	812 x 614	1292 x 734	1292 x 964
Megapixels	0.3	0.3	0.5	0.9	1.2
Sensor type	1/3 CMOS	1/3 CCD	1/3 CCD	1/3 CCD	1/3 CCD
Max. frame rate	309 fps	102 fps	71 fps	42 fps	30 fps
Cell size	7.4 µm	7.4 µm	6.0 µm	4.08 µm	3.75 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Model-specific:	G-131	G-192	G-223	G-419
Sensor	e2v ev76C560	e2v ev76C570	CMOSIS CMV2000	CMOSIS CMV4000
Resolution	1280 x 1024	1600 x 1200	2048 x 1088	2048 x 2048
Megapixels	1.3	1.9	2	4
Sensor type	1/1.8 CMOS	1/1.8 CMOS	2/3 CMOS	1/1 CMOS
Max. frame rate	62 fps	60 fps	49 fps	26 fps
Cell size	5.3 µm	4.5 µm	5.5 µm	5.5 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/yes	yes/yes/yes

Family-specific:

Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Operating temperature	+5 °C ... +45 °C (housing)
Power requirements	DC 12 V ... 24 V via HIROSE or PoE
Power consumption	typ. < 2.9 W @ 12 V DC
I/Os	1 in, 3 out, opto-coupled
Dimensions (L x W x H)	61 x 29 x 29 mm incl. connectors, 80 g
Regulations	CE, FCC Class B, RoHS (2011/65/EU)

Options:

Modular concept

// Various IR cut/pass filters	// CS-/M12-Mount	// White medical housing

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Manta
GiGE VISION

Model-specific:	G-031	G-032	G-033	G-046
Sensor	Sony ICX618	Sony ICX424	Sony ICX414	Sony ICX415
Resolution	656 x 492	656 x 492	656 x 492	780 x 580
Megapixels	0.3	0.3	0.3	0.5
Sensor type	1/4 CCD	1/3 CCD	1/2 CCD	1/2 CCD
Max. frame rate	125 fps	80 fps	88 fps	67 fps
Cell size	5.6 µm	7.4 µm	9.9 µm	8.3 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Model-specific:	G-095	G-125	G-145	G-146
Sensor	Sony ICX692	Sony ICX445	Sony ICX285	Sony ICX267
Resolution	1292 x 734	1292 x 964	1388 x 1038	1388 x 1038
Megapixels	0.9	1.2	1.4	1.4
Sensor type	1/3 CCD	1/3 CCD	2/3 CCD	1/2 CCD
Max. frame rate	40 fps	30 fps	16/30 fps	17 fps
Cell size	4.08 µm	3.75 µm	6.45 µm	4.65 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/yes	yes/yes/no

Model-specific:	G-201	G-223	G-235	G-282
Sensor	Sony ICX274	CMOSIS CMV2000	Sony ICMX174	Sony ICX687
Resolution	1624 x 1234	2048 x 1088	1936 x 1216	1936 x 1458
Megapixels	2	2.2	2.3	2.8
Sensor type	1/1.8 CCD	2/3 CMOS	1/1.2 CMOS	1/1.8 CCD
Max. frame rate	14/30 fps	53 fps	50 fps	30 fps
Cell size	4.4 µm	5.5 µm	5.86 µm	3.69 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/yes	yes/yes/no	yes/yes/no

Model-specific:	G-283	G-419	G-504	G-505
Sensor	Sony ICX674	CMOSIS CMV4000	Sony ICX655	Sony ICX625
Resolution	1936 x 1458	2048 x 2048	2452 x 2056	2452 x 2056
Megapixels	2.8	4.2	5	5
Sensor type	2/3 CCD	1/1 CMOS	2/3 CCD	2/3 CCD
Max. frame rate	30 fps	28 fps	9 fps	15 fps
Cell size	4.54 µm	5.5 µm	3.45 µm	3.45 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/yes	yes/yes/no	yes/yes/no

Model-specific:	G-609	G-917
Sensor	Sony ICX694	Sony ICX814
Resolution	2752 x 2206	3384 x 2710
Megapixels	6	9,1
Sensor type	1/1 CCD	1/1 CCD
Max. frame rate	15 fps	10 fps
Cell size	4.54 µm	3.69 µm
Standard mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no

Family-specific:	
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Operating temperature	+5 °C … +45 °C (ambient)
Power requirements	DC 12 V … 30 V via HIROSE or PoE
Power consumption	typ. < 3.6 W @ 12 V DC; <4.6 W (PoE/-30fps)
I/Os	2 in, 2 out, opto-coupled
Dimensions (L x W x H)	86.4 x 44 x 29 mm incl. connectors, 200 g
Regulations	CE, FCC Class B, RoHS (2011/65/EU)

Options:

Modular concept

// Various IR cut/pass filters   // CS/M12/F-Mount   // White medical housing

// Power over Ethernet   // Angled head (selected models)   // Removed cover glass (Manta G-145 only)

Board level versions (selected models)

// Remote sensor head, cable length up to 200 mm

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Stingray

FireWire

Model-specific:	F-033	F-046	F-080	F-125
Sensor	Sony ICX414	Sony ICX415	Sony ICX204	Sony ICX445
Resolution	656 x 492	780 x 580	1032 x 776	1292 x 964
Megapixels	0.3	0.5	0.8	1.2
Sensor type	1/2 CCD	1/2 CCD	1/3 CCD	1/3 CCD
Max. frame rate	84 fps	61 fps	31 fps	30 fps
Cell size	9.9 μm	8.3 μm	4.65 μm	3.75 μm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Model-specific:	F-145	F-146	F-201	F-504
Sensor	Sony ICX285	Sony ICX267	Sony ICX274	Sony ICX655
Resolution	1388 x 1038	1388 x 1038	1624 x 1234	2452 x 2056
Megapixels	1.4	1.4	2	5
Sensor type	2/3 CCD	1/2 CCD	1/1.8 CCD	2/3 CCD
Max. frame rate	16 fps	15 fps	14 fps	9 fps
Cell size	6.45 μm	4.65 μm	4.4 μm	3.45 μm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Family-specific:

Interface	IEEE 1394b - 800 Mb/s, 2 ports
Operating temperature	+5 °C ... +45 °C ambient temperature
Power requirements	DC 8 V ... 36 V via 1394 cable or HIROSE
Power consumption	typ. < 4 W @ 12 V DC
I/Os	1 in, 3 out, opto-coupled
Dimensions (L x W x H)	72.9 x 44 x 29 mm incl. connectors, 92 g
Regulations	CE, FCC Class B, RoHS (2011/65/EU)

Options:

Modular concept	
// Various IR cut/pass filters	// Angled head
// Removed cover glass (Stingray F-145 only)	// 1394b connectors: 2 x copper or 1 x GOF, 1 x copper
// Hirose power: out	// White medical housing
// CS/M12/F-Mount	// Compact housing version
Board level versions	
// Board level versions available	

26

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Goldeye   NEW!

GigE VISION

Model-specific:	G-032 SWIR	G-032 SWIR Cool
Sensor	InGaAs with TEC1 cooling (ΔT = -30 K)	InGaAs with TEC2 cooling (ΔT = -60 K)
Resolution	636 x 508	636 x 508
Megapixels	0.3	0.3
Spectral range	900 ... 1700 nm	900 ... 1700 nm
Max. frame rate	100 fps	100 fps
Cell size	25 μm	25 μm
Standard mount	C-Mount	C-Mount
Dimensions (L x W x H)	93 x 55 x 55 mm incl. C-Mount, 362 g	105 x 80 x 80 mm incl. C-Mount, 814 g
Power over Ethernet	IEEE 802.3af (PoE)	IEEE 802.3at (PoE+)

Family-specific:

Interface	IEEE 802.3 1000BASE-T
Operating temperature	+-20 °C ... +50 °C (housing)
Power requirements	DC 10.8 V ... 30 V or PoE /PoE+
Power consumption	5 W @ 12 V DC (cooling switched off)
I/Os	1 in, 1 out LV TTL; 1 in, 2 out opto-coupled
Regulations	CE, FCC Class B, RoHS (2011/65/EU)

Options:

Modular concept G-032 SWIR		
// Various IR bandpass filters	// F-Mount, M42-Mount	// Silver housing

Further models with QVGA resolution or Camera Link interface

// GigE and QVGA: **P-008 SWIR Cool** (320 x 256 pixels, 30 μm, 118 fps)
// Camera Link: **CL-008 SWIR Cool** (320 x 256, 30 μm, 118 fps), **CL-032 SWIR Cool** (636 x 508 25 μm, 30 fps)

CAMERA Link

27

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Prosilica GT

Model-specific:	GT-1290	GT-1380	GT-1600	GT-1660
Sensor	Sony ICX445	Sony ICX285	Sony ICX274	OnSemi KAI-02050
Resolution	1280 x 960	1360 x 1024	1620 x 1220	1600 x 1200
Megapixels	1.2	1.4	2	1.9
Sensor type	1/3 CCD	2/3 CCD	1/1.8 CCD	2/3 CCD
Max. frame rate	33 fps	30 fps	25 fps	62 fps
Cell size	3.75 µm	6.45 µm	4.4 µm	5.5 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Model-specific:	GT-1910	GT-1920	GT-2000
Sensor	OnSemi KAI-02150	Sony ICX674	CMOSIS CMV2000
Resolution	1920 x 1080	1936 x 1456	2048 x 1088
Megapixels	2	2.8	2.2
Sensor type	2/3 CCD	2/3 CCD	2/3 CMOS
Max. frame rate	57 fps	40 fps	53 fps
Cell size	5.5 µm	4.54 µm	5.5 µm
Standard mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/yes

Model-specific:	GT-2050	GT-2300	GT-2450
Sensor	CMOSIS CMV4000	OnSemi KAI-04050	Sony ICX625
Resolution	2048 x 2048	2336 x 1752	2448 x 2050
Megapixels	4.2	4	5
Sensor type	1/1 CMOS	1/1 CCD	2/3 CCD
Max. frame rate	28 fps	29 fps	15 fps
Cell size	5.5 µm	5.5 µm	3.45 µm
Standard mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/yes	yes/yes/no	yes/yes/no

Model-specific:	GT-2750	GT-3300	GT-3400
Sensor	Sony ICX694	OnSemi KAI-08050	Sony ICX814
Resolution	2750 x 2200	3296 x 2472	3384 x 2704
Megapixels	6	8	9.1
Sensor type	1/1 CCD	4/3 CCD	1/1 CCD
Max. frame rate	19 fps	14 fps	13 fps
Cell size	4.54 µm	5.5 µm	3.69 µm
Standard mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Prosilica GT large format

Model-specific:	GT-4905	GT-4907	GT-6600
Sensor	OnSemi KAI-16050	OnSemi KAI-16070	OnSemi KAI-29050
Resolution	4896 x 3264	4864 x 3232	6576 x 4384
Megapixels	16	16	29
Sensor type	APS-H CCD	35 mm CCD	35 mm CCD
Max. frame rate	7.5 fps	7.6 fps	4 fps
Cell size	5.5 µm	7.4 µm	5.5 µm
Standard mount	F-Mount	F-Mount	F-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no

Prosilica GT and Prosilica GT large format – Family-specific and Options

Family-specific:

Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Operating temperature	-20 °C ... +60 °C (ambient)
Power requirements	DC 7 V ... 25 V via HIROSE or PoE
Power consumption	typ. < 6.6 W @ 12 V DC
I/Os	2 in, 2 out, opto-coupled and TTL
Dimensions (L x W x H)	See www.alliedvision.com
Regulations	CE, FCC Class A, RoHS (2011/65/EU)

Options:

Standard body

// F-Mount, Birger EF-Mount, M42-Mount

Large format body

// F-Mount, EF-Mount, M42-Mount, M58-Mount

Sensor variants

// Taped cover glass with or without microlenses available (selected models)

// CONTACT

Where You Can Find Us

Allied Vision Technologies Sales Locations:

North America

United States
Allied Vision Technologies, Inc.
102 Pickering Way
Suite 502
Exton, PA 19341
Tel.: +1-978-225-2030

EMEA (Europe, Middle East, Africa)

Germany
Allied Vision Technologies GmbH
Taschenweg 2a
07646 Stadtroda
Tel.: +49-36428-677-0

Asia-Pacific

Singapore
Allied Vision Technologies Asia Pte. Ltd.
82 Playfair Road
#07-02 D'Lithium
Singapore 368001
Tel.: +65-6634-9027

Shanghai, China (domestic sales)
Allied Vision Technologies (Shanghai) Co., Ltd.
2-2109 Hongwell International Plaza
1602# ZhongShanXi Road
Shanghai 200235
Tel.: +86 (21) 64861133

Allied Vision Technologies GmbH
Taschenweg 2a
07646 Stadtroda, Germany
Tel.: +49-36428-677-0