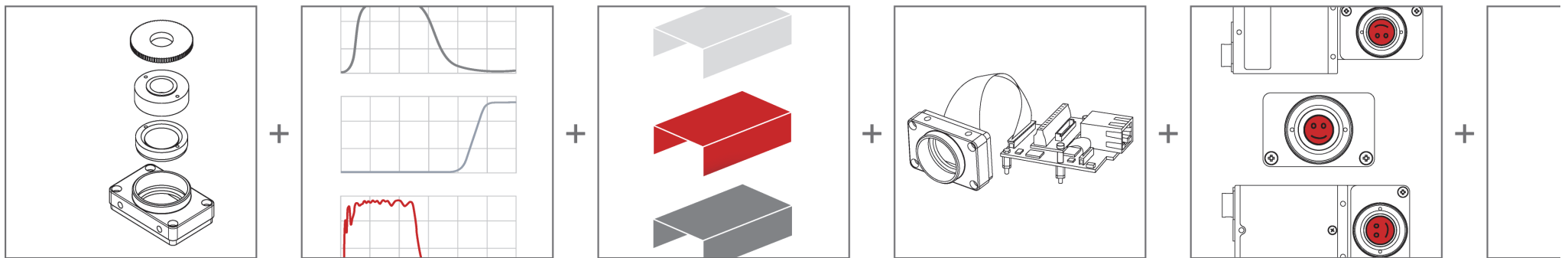


Modular concept



Description of the Modular concept

- With ordering an Allied Vision camera, the **Modular concept** provides options to change the camera mount, the optical filters, etc.
- Benefits of the **Modular concept** options:
 - No customizing effort
 - Pre-configured variants
 - Quick delivery times
 - Transparent pricing

Note



Contact your sales representative for minimum order quantities.

Technical and ordering information

Connect with Allied Vision colleagues by function:

www.alliedvision.com/en/contact

Find an Allied Vision office or distributor:

www.alliedvision.com/en/about-us/where-we-are.html

E-mail:

info@alliedvision.com

(for commercial and general inquiries)

support@alliedvision.com

(for technical assistance with Allied Vision products)

Telephone:

EMEA: +49 36428-677-0

The Americas: +1 978-225-2030

Asia-Pacific: +65 6634-9027

China: +86 (21) 64861133

Headquarters:

Allied Vision Technologies GmbH

Taschenweg 2a, 07646 Stadtroda, Germany

Tel: +49 (36428) 677-0 Fax +49 (36428) 677-24

President/CEO: Frank Grube | Registration Office: AG Jena HRB 208962

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Mako G options



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	- CS-Mount - M12-Mount See M12-Mount adaptor set on page 20	- Mako G-... CS-Mount - Mako G-... M12-Mount	
Optical filter	Monochrome camera: No filter	- ASG (protection glass) - IRC Hoya C5000 (IR cut filter) - IRC type Jenofilt 217 (IR cut filter) - IRP RG715 (IR pass filter) - IRP RG830 (IR pass filter) See Spectral transmission of filters: 300 – 1000 nm on page 22	- Mako G-... ASG - Mako G-... IRC Hoya - Mako G-... IRC Jenofilt - Mako G-... IRP RG715 - Mako G-... IRP RG830	
	Color camera: IR cut filter Hoya C5000	- ASG (protection glass) - IRC type Jenofilt 217 (IR cut filter) - IRP RG715 (IR pass filter) - IRP RG830 (IR pass filter) See Spectral transmission of filters: 300 – 1000 nm on page 22	- Mako G-... ASG - Mako G-... IRC Jenofilt - Mako G-... IRP RG715 - Mako G-... IRP RG830	
Case design	Allied Vision design	White medical design See White medical design on page 21	Mako G-... medical	

Table 1: Mako G options

Manta type A and type B: Overview



Manta **type A**: G-031 / 032 / 033 / 046 / 095 / 125 / 145 / 146 / 201 / 504

Manta **type B**: G-223 / 282 / 283 / 419 / 609 / 917

Manta...	G-031 B/C	G-032 B/C	G-033 B/C	G-046 B/C	G-095 B/C	G-125 B/C	G-145 B/C *	G-146 B/C	G-201 B/C **	G-223 B/C ***	G-235 B/C	G-282 B/C	G-283 B/C	G-419 B/C ***	G-504 B/C	G-505 B/C	G-609 B/C	G-917 B/C
Type A	X	X	X	X	X	X	X	X	X						X			
Type B										X	X	X	X	X		X	X	X
Angled head	X	X	X	X	X	X	X	X	X	X	X			X	X			
Board level	X	X	X	X	X	X	X	X	X	X	X			X	X			

Table 2: Overview angled head, board level variants for Manta type A and type B

*Including Manta G-145 B/C, Manta G-145 B/C 30 fps, Manta G-145 B NIR

**Including Manta G-201 B/C, Manta G-201 B/C 30 fps

***Including Manta G-xxx B NIR

Manta options

Manta **type A**: G-031 / 032 / 033 / 046 / 095 / 125 / 145 / 146 / 201 / 504

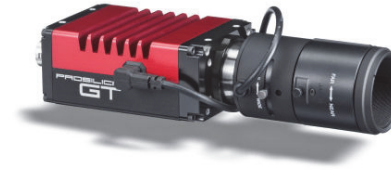
Manta **type B**: G-223 / 282 / 283 / 419 / 609 / 917



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	- F-Mount - CS-Mount - M12-Mount (see M12-Mount adaptor set on page 20)	- MANTA G-... Nikon F-Mount - MANTA G-... CS-Mount - MANTA G-... M12-Mount	
Angled head	Straight view	- W90 camera - W90 S90 camera - W270 camera - W270 S90 camera See Angled head options on page 21 for possible combinations	- MANTA G-... W90 - MANTA G-... W90 S90 - MANTA G-... W270 - MANTA G-... W270 S90	
Optical filter	Monochrome camera: ASG	ASG (protection glass)	MANTA G-... ASG	
	Color camera: IRC Hoya C5000	- IRC type Jenofilt 217 (IR cut filter) - IRC Hoya C5000 (IR cut filter) - IRP RG715 (IR pass filter) - IRP RG830 (IR pass filter) See Spectral transmission of filters: 300 – 1000 nm on page 22	- MANTA G-... IRC Jenofilt - MANTA G-... IRC Hoya - MANTA G-... IRP RG715 - MANTA G-... IRP RG830	
	NIR camera: No filter	See filter options above		
Case design	Allied Vision design	White medical design See White medical design on page 21	MANTA G-... medical	
Sensor variant	Fixed cover glass, microlenses	Removed cover glass, microlenses (only for cameras with ICX285: Manta G-145B/C and Manta G-145B/C-30fps) See Removed Cover Glass (RCG) on page 31	MANTA G-... RCG (Removed Cover Glass)	
Board level		See Ordering a Manta board level camera (not available for G-282 / 283 / 505 / 609 / 917) on page 33	MANTA G-... BL	

Table 3: Manta options

Prosilica GT options



Module	Standard	Options	Order number / Order text	
Lens mount for GT cameras	C-Mount GT3300: F-Mount	- CS-Mount - C-Mount (GT3300 only) - F-Mount - EF-Mount, Birger* - M42-Mount (45.5 mm flange focal distance)	- Prosilica GT...-01 - Prosilica GT...-07 - Prosilica GT...-03 - Prosilica GT...-09 - Prosilica GT...-31	
Optical filter	Monochrome camera: No filter Color camera: IRC30	- IRC30 (IR cut filter) - ASG (protection glass)	- Prosilica GT...-06 - Prosilica GT...-19	
Sensor variant	Fixed cover glass, microlenses	- Taped cover glass, microlenses** - Taped cover glass, no microlenses** See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	- Prosilica GT....-02 - Prosilica GT....-04	

Table 4: Prosilica GT options

*Power supply included (does not work with PoE).

**Camera needs to be disassembled to remove cover glass.

Prosilica GT Large Format options



Module	Standard	Options	Order number / Order text	
Lens mount for GT Large format cameras	F-Mount	- EF-Mount, Birger* - M58-Mount (12.71 mm flange focal distance) - M42-Mount (45.5 mm flange focal distance)	- Prosilica GT....-09 - Prosilica GT....-12 - Prosilica GT....-25	
Optical filter	Monochrome camera: No filter Color camera: IRC30	- IRC30 (IR cut filter) - ASG (protection glass)	- Prosilica GT....-06 - Prosilica GT....-19	
Sensor variant	Fixed cover glass, microlenses	- Taped cover glass, microlenses** - Taped cover glass, no microlenses** See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	- Prosilica GT....-02 - Prosilica GT....-04	
Sensor quality	Class 2	Class 1 See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	Prosilica GT....-C1	

Table 5: Prosilica GT Large Format options

*Power supply included (does not work with PoE).

**Camera needs to be disassembled to remove cover glass.

Prosilica GX options



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount GX3300, GX6600: F-Mount	- CS-Mount (not available for GX6600) - C-Mount (not available for GX6600) - F-Mount - EF-Mount, Birger* - M58-Mount, 12.71 mm flange focal distance (only for GX6600) - M42-Mount (45.5 mm flange focal distance)	- Prosilica GX....-01 - Prosilica GX....-07 - Prosilica GX....-03 - Prosilica GX....-09 - Prosilica GX....-12 - Prosilica GX....-31	
Optical filter	Monochrome camera: No filter Color camera: IRC30	- IRC30 (IR cut filter) - ASG (protection glass)	- Prosilica GX....-06 - Prosilica GX....-19	
Sensor variant	Fixed cover glass, microlenses	- Taped cover glass, microlenses** - Taped cover glass, no microlenses** See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	- Prosilica GX....-02 - Prosilica GX....-04	
Sensor quality	Class 2	Class 1 See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	Prosilica GX....-C1	

Table 6: Prosilica GX options

*Power supply included (does not work with PoE).

**Camera needs to be disassembled to remove cover glass.

Prosilica GE options



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount GE4000, GE4900: F-Mount	- CS-Mount (not available on GE4000, GE4900) - F-Mount - EF-Mount, Birger* - M58-Mount, 11.65 mm fixed back focus distance (only for GE4000, GE4900)	- Prosilica GE....-01 - Prosilica GE....-03 - Prosilica GE....-09 - Prosilica GE....-12	
Optical filter	Monochrome camera: No filter Color camera: IRC30	- IRC30 (IR cut filter) - ASG (protection glass), only for C/CS-Mount	- Prosilica GE....-06 - Prosilica GE....-19	
Sensor variant	Fixed cover glass, microlenses	- Taped cover glass, microlenses** - Taped cover glass, no microlenses** - Quartz glass, no microlenses - Quartz glass, microlenses - Fixed cover glass, no microlenses See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	- Prosilica GE....-02 - Prosilica GE....-04 - Prosilica GE....-11 - Prosilica GE....-35 - Prosilica GE....-37	
Sensor quality	Class 2	- Class 1 - Class 0 See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	- Prosilica GE....-C1 - Prosilica GE....-C0	

Table 7: Prosilica GE options

*Power supply included (does not work with PoE).

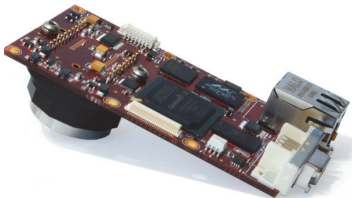
**Camera needs to be disassembled to remove cover glass.



Prosilica GC options

Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	CS-Mount	Prosilica GC...-01	
Optical filter	Monochrome camera: No filter	- IRC30 (IR cut filter) - ASG (protection glass)	- Prosilica GC...-06 - Prosilica GC...-19	
	Color camera: IRC30			

Table 8: Prosilica GC options



Prosilica GB options

Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	CS-Mount	Prosilica GB...-01	
Optical filter	Monochrome camera: No filter	- IRC30 (IR cut filter) - ASG (protection glass)	- Prosilica GB...-06 - Prosilica GB...-19	
	Color camera: IRC30			

Table 9: Prosilica GB options

Prosilica GS options



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	CS-Mount	Prosilica GS....-01	
Optical filter	Monochrome camera: No filter	- IRC30 (IR cut filter) - ASG (protection glass)	- Prosilica GS....-06 - Prosilica GS....-19	
	Color camera: IRC30			
Case design	Allied Vision design	Prosilica GS medical design	Prosilica GS....-10	

Table 10: Prosilica GS options

Guppy PRO options



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	- CS-Mount - F-Mount - M12-Mount See M12-Mount adaptor set on page 20	- Guppy PRO F-... CS-Mount - Guppy PRO F-... Nikon F-Mount - Guppy PRO F-... M12-Mount	
Optical filter	Monochrome camera: ASG Color camera: IRC Hoya C5000	- ASG (protection glass) - IRC type Jenofilt 217 (IR cut filter) - IRC Hoya C5000 (IR cut filter) - IRP RG715 (IR pass filter) - IRP RG830 (IR pass filter) See Spectral transmission of filters: 300 – 1000 nm on page 22	- Guppy PRO F-... ASG - Guppy PRO F-... IRC Jenofilt - Guppy PRO F-... IRC Hoya - Guppy PRO F-... IRP RG715 - Guppy PRO F-... IRP RG830	
Case design	Allied Vision design	White medical design See White medical design on page 21	Guppy PRO F-... medical	
HIROSE Power	Input	Output	Guppy PRO F-... PWR out	

Table 11: Guppy PRO options

Stingray options



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	- F-Mount - CS-Mount - M12-Mount (see M12-Mount adaptor set on page 20)	- Stingray F-... Nikon F-Mount - Stingray F-... CS-Mount - Stingray F-... M12-Mount	
Angled head	Straight view	- W90 camera - W90 S90 camera - W270 camera - W270 S90 camera See Angled head options on page 21	- Stingray F-... W90 - Stingray F-... W90 S90 - Stingray F-... W270 - Stingray F-... W270 S90	
Housing variant	Standard housing, Cable exit on back	Stingray Compact (Cable exit on bottom) No angled heads. No fiber option. See <i>Stingray Technical Manual</i>, Chapter <i>Stingray Compact</i>	Stingray F-... compact	
Optical filter	Monochrome camera: ASG Color camera: IRC Hoya C5000	- ASG (protection glass) - IRC type Jenofilt 217 (IR cut filter) - IRC Hoya C5000 (IR cut filter) - IRP RG715 (IR pass filter) - IRP RG830 (IR pass filter) See Spectral transmission of filters: 300 – 1000 nm on page 22	- Stingray F-... ASG - Stingray F-... IRC Jenofilt - Stingray F-... IRC Hoya - Stingray F-... IRP RG715 - Stingray F-... IRP RG830	
Case design	Allied Vision design	White medical design See White medical design on page 21	Stingray F-... medical	
HIROSE Power	Input	Output	Stingray F-... PWR out	
1394b connectors	2 x copper or 1 x GOF, 1 x copper	See <i>1394 Installation Guide</i> , Chapter <i>Camera interfaces</i>	- Stingray F-... - or - Stingray F-... fiber	
Sensor variant	Fixed cover glass, microlenses	Removed cover glass, microlenses (only ICX285: Stingray F-145B/C) See Removed Cover Glass (RCG) on page 31	Stingray F-... RCG (Removed Cover Glass)	
Board level		See How to order a Manta / Stingray board level camera on page 32	Stingray F-... BL	

Table 12: Stingray options

Pike options (not F-1100/1600)



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	- F-Mount - M39-Mount - CS-Mount - M12-Mount See M12-Mount adaptor set on page 20	- Pike F-... Nikon F-Mount - Pike F-... M39-Mount - Pike F-... CS-Mount - Pike F-... M12-Mount	
Angled head	Straight view	- W90 camera - W90 S90 camera - W270 camera - W270 S90 camera See Angled head options on page 21	- Pike F-... W90 - Pike F-... W90 S90 - Pike F-... W270 - Pike F-... W270 S90	
Optical filter	Monochrome camera: ASG Color camera: IRC type Jenofilt 217	- ASG (protection glass) - IRC type Jenofilt 217 (IR cut filter) - IRP RG715 (IR pass filter) - IRP RG830 (IR pass filter) See Spectral transmission of filters: 300 – 1000 nm on page 22	- Pike F-... ASG - Pike F-... IRC Jenofilt - Pike F-... IRP RG715 - Pike F-... IRP RG830	
Sensor variants	Fixed cover glass, microlenses	See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24	Pike F-... Order code (see page 24) Example: Pike F-032B ABB-CP-AA	
Case design	Allied Vision design	White medical design See White medical design on page 21	Pike F-... medical	
HIROSE Power	Input	Output	Pike F-... PWR out	
1394b connectors	2 x copper or 1 x GOF, 1 x copper	See <i>1394 Installation Guide</i> , Chapter <i>Camera interfaces</i>	- Pike F-... - or - Pike F-... fiber	

Table 13: Pike options (without Pike F-1100/1600)



Pike F-1100/1600 options

Module	Standard	Options	Order number / Order text	
Lens mount	F-Mount	- M42-Mount - M58-Mount	- Pike F-...M42-Mount - Pike F-...M58-Mount	
Angled head	Straight view	W270 camera See Angled head options on page 21	Pike F-... W270	
Optical filter	Monochrome camera: ASG Color camera: IRC type Jenofilt 217	- ASG (protection glass) - IRC type Jenofilt 217 (IR cut filter) - IRC Hoya C5000 (IR cut filter) See Spectral transmission of filters: 300 – 1000 nm on page 22	- Pike F-... ASG - Pike F-... IRC Jenofilt - Pike F-... IRC Hoya	
Sensor variants	Fixed cover glass, microlenses	See Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras on page 24*	Pike F-... Order code (see page 24) Example: Pike F-1100B ABA-CD-B1	
Sensor quality	Class 2	- Class 1 - Class 0 (only for Pike F-1100B) For defective pixel definitions: with Pike 1100, see page 25 with Pike 1600, see page 26	- Pike F-... C1 - Pike F-... C0	
Case design	Allied Vision design	White medical design See White medical design on page 21	Pike F-... medical	
HIROSE Power	Input	Output	Pike F-... PWR out	
1394b connectors	2 x copper or 1 x GOF, 1 x copper	See <i>1394 Installation Guide</i> , Chapter <i>Camera interfaces</i>	- Pike F-... - or - Pike F-... fiber	

Table 14: Pike F-1100/1600 options

*Taped cover glass Pike F-1100/F-1600 cameras are delivered with removed cover glass, because the sensor glass cannot be removed by the customer (see [page 31](#)).

Goldeye G options



Module	Standard	Options	Order number / Order text	
Lens mount	C-Mount	- F-Mount - M42-Mount	- Goldeye G-... SWIR... F-Mount - Goldeye G-... SWIR... M42-Mount	
Optical filter	No filter	IRBP 1450 (IR-bandpass filter), water absorption peak See Spectral transmission of IRBP 1450 nm (IR-bandpass filter) on page 23	Goldeye G-... SWIR... IRBP 1450	
Case design	Allied Vision design	Silver design	Goldeye G-... SWIR... silver	

Table 15: Goldeye G options

Note

For further options, see:


www.alliedvision.com/en/contact

Pearleye options



Module	Standard	Options	Order number / Order text	
Lens	Focal length: 18 mm F-number: f/1.0 Focus range: 1 m to infinity Field of view (HxV): P-007 34.6° x 26.3° P-030 47,9° x 36,9°	12 mm, f/0.85, >0.5m, 50° x 38.6°/67° x 53° 16 mm, f/1.2, >1m, 44° x 33.5°/60° x 46° 22 mm, f/1.2, >1.5m, 28.6° x 21.6°/40° x 30.5° 35 mm, f/1.0, >0.5m, 18.2° x 13.7°/26° x 19.5° 75 mm, f/1.0, >5m, 8.5° x 6.4°/12.2° x 9.2° On request: Further lens options - Exchanging the lens of an existing camera with a lens option from the row above (only at the Allied Vision facilities and only on request) - Customized lens option (engineering costs, only for the first camera with this customization)	- Pearleye P-... LWIR 12 mm - Pearleye P-... LWIR 16 mm - Pearleye P-... LWIR 22 mm - Pearleye P-... LWIR 35 mm - Pearleye P-... LWIR 75 mm - On request - On request	
Case design	Allied Vision design	Silver design (with black interface module)	Pearleye P-... silver	

Table 16: Pearleye options

M12-Mount adapter set

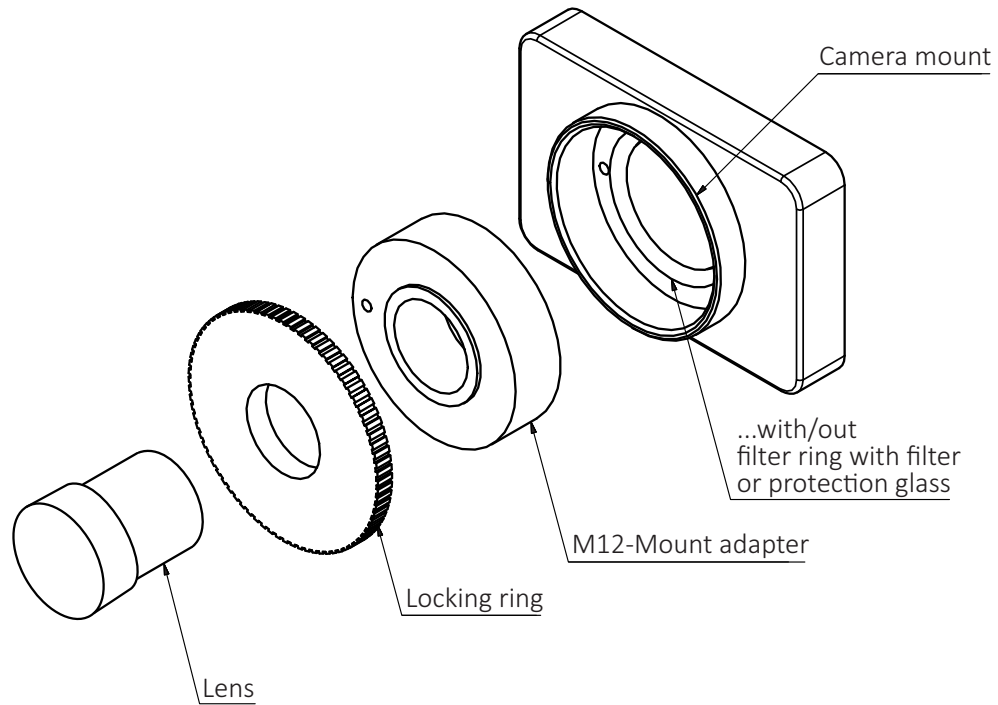


Figure 1: Installing M12-Mount lenses, using the M12-Mount adapter set

Angled head options

The schematic drawings show the sensor position for the following camera families:

- Manta type A
- Manta type B: **Only G-223 / 235 / 419** (not available for the following Manta type B cameras: G-282 / 283 / 609 / 917)
- Pike: All angled head variants (except for **Pike F-1100 / 1600: only W270**)
- Stingray

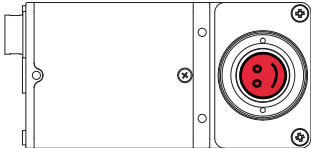
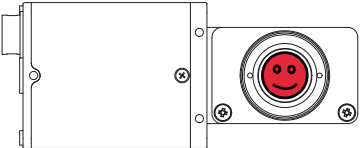
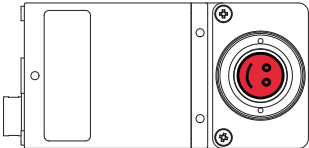
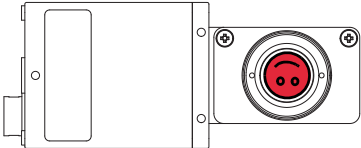
Standard camera	W90 camera	W90 S90 camera	W270 camera	W270 S90 camera
				
Front view into sensor	Top view into sensor	Top view into sensor	Bottom view into sensor	Bottom view into sensor

Table 17: Sensor position of angled head versions (drawings only schematic)

White medical design

White medical logo	White medical cameras
	

Table 18: White medical design

Spectral transmission of filters: 300 – 1000 nm

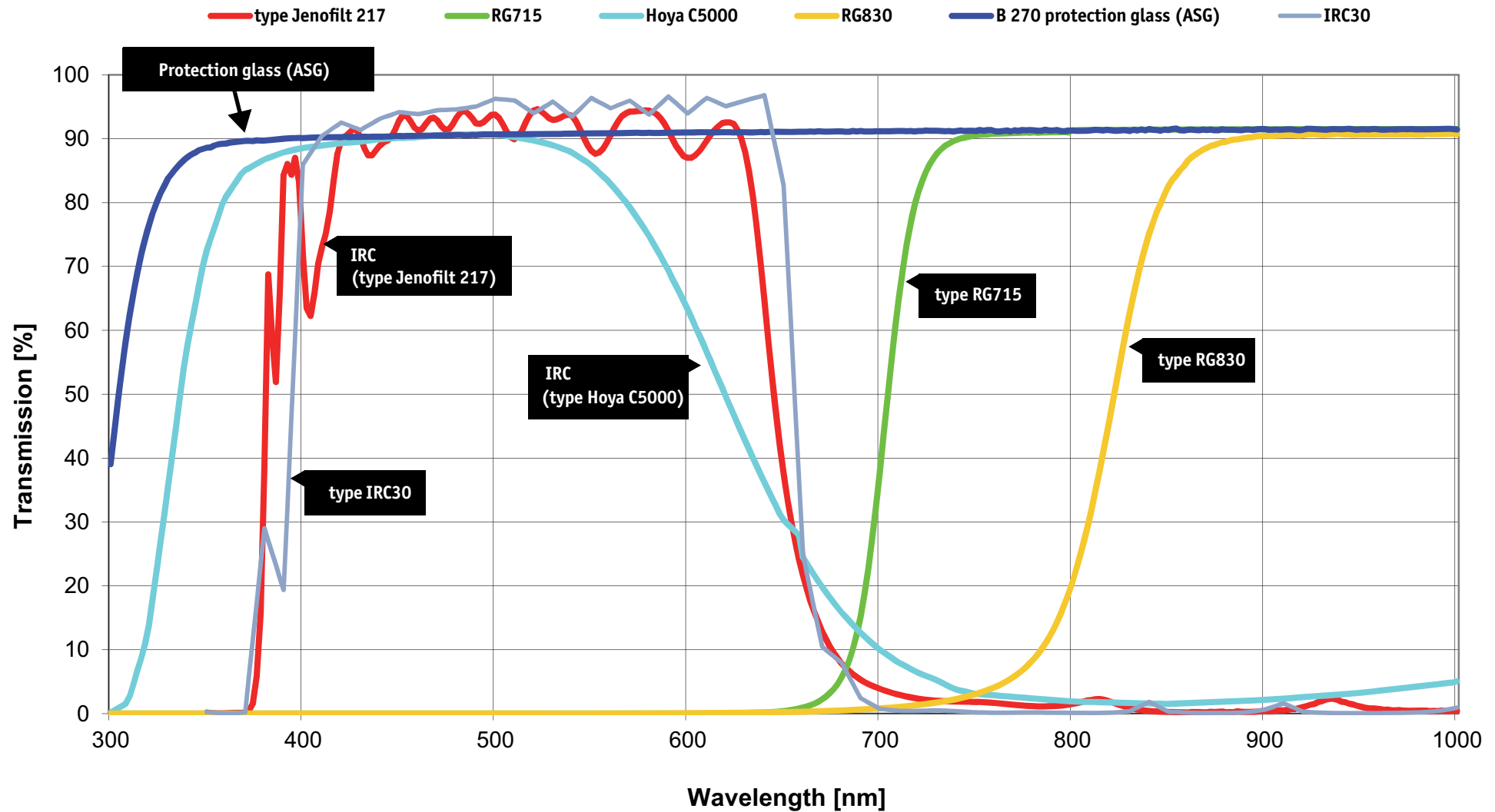


Figure 2: Spectral transmission of filters (exemplary curves)

Spectral transmission of IRBP 1450 nm (IR-bandpass filter)

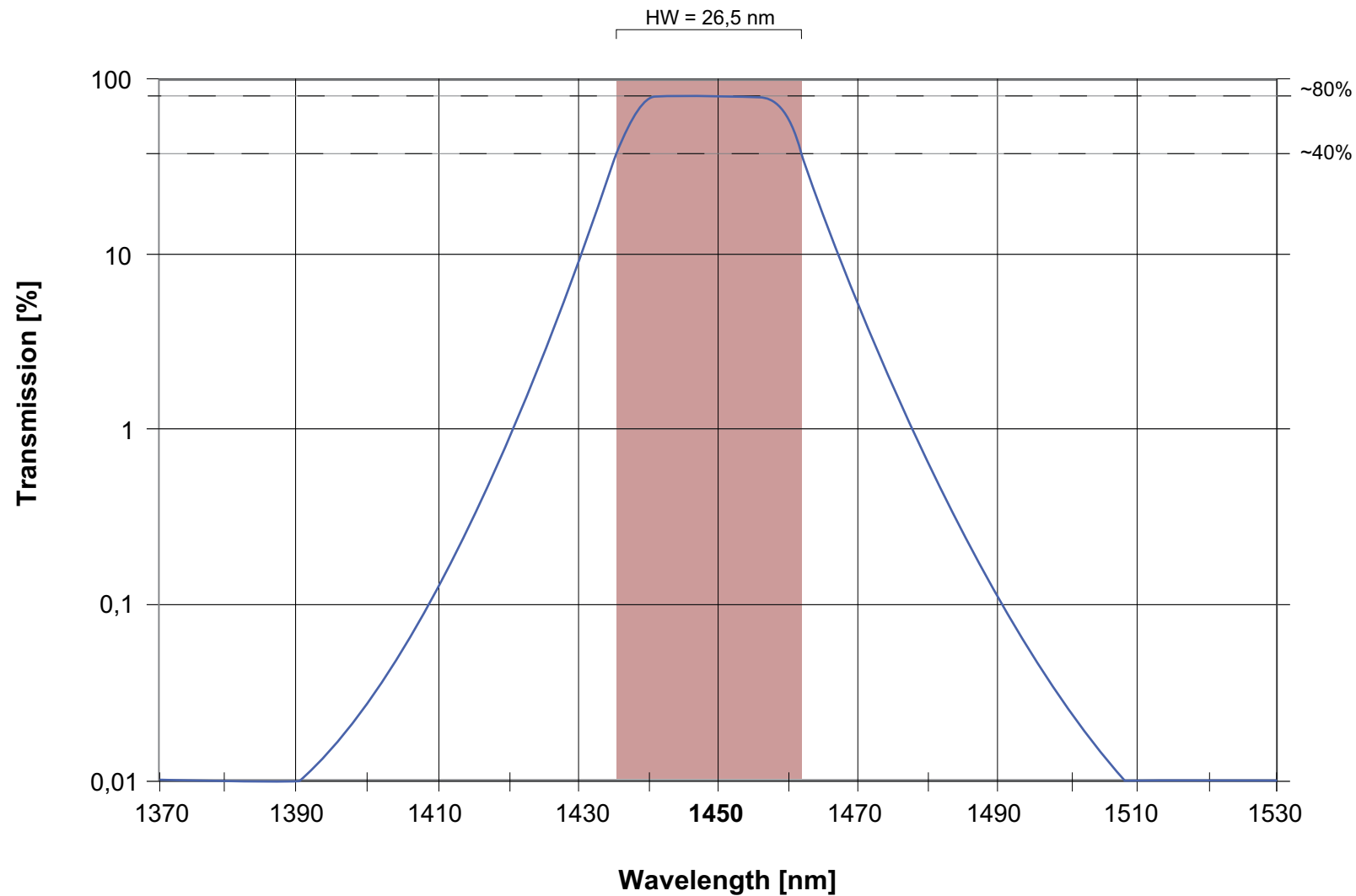


Figure 3: Spectral transmission of IRBP 1450 nm (IR-bandpass filter, exemplary curve)

Sensor options: Pike / Prosilica GX / Prosilica GT / Prosilica GE cameras

				FIXED glass WITH microlenses			FIXED glass NO microlenses		TAPED glass WITH microlenses		TAPED glass NO microlenses		QUARTZ glass WITH micro- lenses	QUARTZ glass NO micro- lenses	
Camera family	Camera model	Standard sensor	Sensor type	Order code of sensor variants											
				Class 2	Class 1	Class 0	Class 2	Class 1	Class 2	Class 1	Class 2	Class 1	Class 2	Class 1	Class 2
Pike	Pike F-032B	KAI-0340	Mono	Standard	-	-	-	-	-	ABB-CP-AA	-	AAA-CP-AA	-	-	AAA-CF-AA
	Pike F-210B	KAI-2093	Mono	Standard	ABA-CB-B1	-	-	-	-	ABA-CP-BA	-	AAA-CP-BA	-	ABA-CK-BA	-
	Pike F-421B	KAI-04022	Mono	Standard	-	-	-	-	-	ABA-CR-BA	-	AAA-CR-BA	-	-	-
	Pike F-421C	KAI-04022	Color	Standard	-	-	-	-	-	CBA-CR-BA	-	-	-	-	-
	Pike F-1100B	KAI-11002	Mono	Standard	ABA-CD-B1	ABA-CD-B0	-	-	-	ABA-CR-B2	ABA-CR-B1	AAA-CR-B2	AAA-CR-B1	-	-
	Pike F-1100C	KAI-11002	Color	Standard	CBA-CD-B1	-	CAA-CD-B2	CAA-CD-B1	-	-	-	-	-	-	-
	Pike F-1600B	KAI-16000	Mono	Standard	AXA-JD-B1	-	AAA-JD-B2	AAA-JD-B1	AXA-JR-B2	AXA-JR-B1	AAA-JR-B2	AAA-JR-B1	-	-	-
	Pike F-1600C	KAI-16000	Color	Standard	CXA-JD-B1	-	-	-	-	-	-	-	-	-	-
Prosilica GX Prosilica GT	GX/GT1660	KAI-02050	Mono	Standard	-	-	-	-	-	ABA-JR-BA	-	AAA-JR-BA	-	-	-
	GX/GT1910	KAI-02150	Mono	Standard	-	-	-	-	-	ABA-JR-BA	-	AAA-JR-BA	-	-	-
	GX/GT2300	KAI-04050	Mono	Standard	-	-	-	-	-	ABA-JP-BA	-	AAA-JP-BA	-	-	-
	GX/GT3300	KAI-08051	Mono	Standard	-	-	-	-	-	ABA-JP-BA	-	AAA-JP-BA	-	-	-
	GT4905	KAI-16050	Mono	Standard	AXA-JD-B1	-	-	-	-	-	-	-	-	-	-
	GT4905C	KAI-16050	Color	Standard	CXA-JD-B1	-	-	-	-	-	-	-	-	-	-
	GT4907	KAI-16070	Mono	Standard	AXA-JD-B1	-	-	-	-	-	-	-	-	-	-
	GT4907C	KAI-16070	Color	Standard	CXA-JD-B1	-	-	-	-	-	-	-	-	-	-
	GX/GT6600	KAI-29050	Mono	Standard	AXA-JD-B1	-	-	-	-	-	-	-	-	-	-
	GX/GT6600C	KAI-29050	Color	Standard	CXA-JD-B1	-	-	-	-	-	-	-	-	-	-
Prosilica GE	GE680	KAI-0340	Mono	Standard	-	-	-	-	-	ABB-CP-AA	-	AAA-CP-AA	-	-	AAA-CF-AA
	GE1650	KAI-2020	Mono	Standard	-	-	-	-	-	ABA-CR-BA	-	AAA-CR-BA	-	-	AAA-CF-BA
	GE1650C	KAI-2020	Color	Standard	-	-	-	-	CBA-CD-BA	-	-	-	-	-	-
	GE1660	KAI-02050	Mono	Standard	-	-	-	-	-	ABA-JD-BA	-	AAA-JR-BA	-	-	-
	GE1900	KAI-2093	Mono	Standard	ABA-CB-B1	-	-	-	-	ABA-CP-BA	-	AAA-CP-BA	-	ABA-CK-BA	-
	GE1910	KAI-02150	Mono	Standard	-	-	-	-	-	ABA-JR-BA	-	AAA-JR-BA	-	-	-
	GE2040	KAI-04022	Mono	Standard	-	-	-	-	-	ABA-CR-BA	-	AAA-CR-BA	-	-	-
	GE2040C	KAI-04022	Color	Standard	-	-	-	-	-	CBA-CR-BA	-	-	-	-	-
	GE4000	KAI-11002	Mono	Standard	ABA-CD-B1	ABA-CD-B0	-	-	-	ABA-CR-B2	ABA-CR-B1	AAA-CR-B2	AAA-CR-B1	-	-
	GE4000C	KAI-11002	Color	Standard	CBA-CD-B1	-	CAA-CD-B2	CAA-CD-B1	-	-	-	-	-	-	-
	GE4900	KAI-16000	Mono	Standard	AXA-JD-B1	-	AAA-JD-B2	AAA-JD-B1	AXA-JR-B2	AXA-JR-B1	AAA-JR-B2	AAA-JR-B1	-	-	-
	GE4900C	KAI-16000	Color	Standard	CXA-JD-B1	-	-	-	-	-	-	-	-	-	-

Table 19: Order codes of sensor variants: Pike / Prosilica GX / Prosilica GE / Prosilica GT cameras

Example: Pike F-421B, sensor variant: Taped cover glass, no microlenses ⇒ Order code = Pike F-421B **AAA-CR-BA**

Note

Ordering conditions



Please contact Customer Service for lead time, minimum order quantities, and delivery times.

Defective pixel definitions: Pike F-1100 / Prosilica GE4000

(OnSemi KAI-11002 sensors)

Description	Definition	Class X	Class 0	Class 1	Class 2	Class 2	Notes
		Monochrome with microlens only	Monochrome with microlens only		Color only	Monochrome only	
Major dark field defective pixel	Defect ≥ 239 mV	100	100	100	200	200	1,2
Major bright field defective pixel	Defect $\geq 15\%$						1,2
Minor dark field defective pixel	Defect ≥ 123 mV	1000	1000	1000	2000	2000	1,2
Cluster defect	A group of 2 to N contiguous major defective pixels, but no more than W adjacent defects horizontally.	0	1 N=10 W=3	20 N=10 W=3	20 N=10 W=3	20 N=12 W=5	1,2
Column defect	A group of more than 10 contiguous major defective pixels along a single column.	0	0	0	10	2	1,2

Table 20: Defective pixel definitions: Pike F-1100 / Prosilica GE4000 (OnSemi KAI-11002 sensors)

¹ There will be at least two non-defective pixels separating any two major defective pixels.

² Tested at 27°C and 40°C

Note

Class X sensors are offered strictly as available.



OnSemi cannot guarantee delivery dates.
Please call for availability.

Defective pixel definitions: Pike F-1600 / Prosilica GE4900 (OnSemi KAI-16000 sensors)

Description	Definition	Class 1	Class 2	Class 2	Notes	Test
			Monochrome only	Color only		
Major dark field defective pixel	Defect ≥ 245 mV	150	300	300	2	2
Major bright field defective pixel	Defect $\geq 15\%$					3
Minor dark field defective pixel	Defect ≥ 126 mV	1500	3000	3000	3	
Cluster defect	A group of 2 to N contiguous major defective pixels, but no more than W adjacent defects horizontally.	30 N=20 W=4	30 N=20 W=4	30 N=20 W=4	1,2	
Column defect	A group of more than 10 contiguous major defective pixels along a single column.	0	4	15	1,2	

Table 21: Defective pixel definitions: Pike F-1600 / Prosilica GE4900 (OnSemi KAI-16000 sensors)

¹ At least two non-defective pixels separate any two major defective pixels.² Tested at 27 °C and 40 °C³ Tested at 40 °C

Defective pixel definitions: Prosilica GX6600 / GT6600 (OnSemi KAI-29050 sensors)

Description	Definition	Class 1	Class 2	Class 2	Notes	Test
			Monochrome only	Color only		
Major dark field defective pixel	Defect ≥ 565 mV	270	540	540	1	3
Major bright field defective pixel	Defect $\geq 12\%$					4
Minor dark field defective pixel	Defect ≥ 282 mV	2700	5400	5400		
Cluster defect	A group of 2 to N contiguous major defective pixels, but no more than W adjacent defects horizontally.	20 N=19 W=4	50 N=38 W=5	50 N=38 W=5	2	
Column defect	A group of more than 10 contiguous major defective pixels along a single column.	0	7	27	2	

Table 22: Defective pixel definitions: Prosilica GX6600 / GT 6600 (OnSemi KAI-29050 sensors)

¹ For the color devices (KAI-29050-CXA and KAI-29050-PXA), a bright field defective pixel deviates by 12% with respect to pixels of the same color.

² Column and cluster defects are separated by no less than two good pixels in any direction (excluding single pixel defects).

³ Tested at 27 °C

⁴ Tested at 27 °C and 40 °C

Defective pixel definitions: Prosilica GT4905

(OnSemi KAI-16050 sensor)

Description	Definition	Class 1	Class 2	Class 2	Notes	Test
			Monochrome only	Color only		
Major dark field defective bright pixel	PD_Tint = Mode A -> Defect $\geq$ 200 mV	150	300	300	1	3
Major bright field defective dark pixel	Defect $\geq$ 12%					3
Cluster defect	A group of 2 to 19 contiguous major defective pixels, but no more than 3 adjacent defects horizontally.	20	n/a	n/a	2	3
Cluster defect	A group of 2 to 38 contiguous major defective pixels, but no more than 5 adjacent defects horizontally.	n/a	30	30		3
Column defect	A group of more than 10 contiguous major defective pixels along a single column.	0	4	15	2	3

Table 23: Defective pixel definitions: Prosilica GT4905 (OnSemi KAI-16050 sensors)

¹ For the color devices (KAI-16050-CXA and KAI-16050), a bright field defective pixel deviates by 12% with respect to pixels of the same color.

² Column and cluster defects are separated by no less than two good pixels in any direction (excluding single pixel defects).

³ Tested at 27 °C

Defective pixel definitions: Prosilica GT4907

(OnSemi KAI-16070 sensor)

Description	Definition	Class 1	Class 2	Class 2	Notes	Test
			Monochrome only	Color only		
Major dark field defective bright pixel	PD_Tint = Frame Time Defect ≥ 325 mV	150	300	300	1	3
Major bright field defective dark pixel	Defect $\geq 15\%$					3
Minor dark field defective bright pixel	PD_Tint = Frame Time Defect ≥ 163 mV	1500	3000	3000	2	3
Cluster defect	A group of 2 to 19 contiguous major defective pixels, but no more than 4 adjacent defects horizontally.	30	30	30		3
Column defect	A group of more than 10 contiguous major defective pixels along a single column.	0	4	15	2	3

Table 24: Defective pixel definitions: Prosilica GT4907 (OnSemi KAI-16070 sensors)

¹ For the color devices (KAI-16070-CXA and KAI-16070-PXA), a bright field defective pixel deviates by 12% with respect to pixels of the same color.

² Column and cluster defects are separated by no less than two good pixels in any direction (excluding single pixel defects).

³ Tested at 40°C (without electronic shutter)

Pike (not F-1100/F1600), Prosilica GE/GT/GX with Taped Cover Glass (TCG)

Pike (not F-1100/F-1600), Prosilica GE/GT/GX with Taped Cover Glass (TCG) sensor variant

Note



- This camera model includes a sensor with taped cover glass.
- As protection for shipment, a special tape to fix the sensor glass is used, tape and sensor glass have to be removed before using the camera.
- We recommend removing the tape and the sensor glass in a dust-free environment: Without glass cover, the sensor is mechanically very sensitive and has to be protected very carefully against humidity and dust.

Warranty precaution



Allied Vision does not warranty against any damage to the sensor as soon as the tape is removed.

Table 25: Pike (not F-1100/F-1600), Prosilica GE/GT/GX with TCG sensors:
Note and warranty precaution

Removed Cover Glass (RCG)

Sensors with removed cover glass are suitable for several applications like laser beam profiling or where fiber optics are put directly on the CCD sensor.

Since the removal of the cover glass is not carried out by the sensor manufacturer himself but by a service provider, Allied Vision uses the term **Removed Cover Glass (RCG)** for this Pike F-1100/F-1600, Stingray, and Manta Modular concept option.

Pike F-1100/F-1600, Stingray, and Manta with Removed Cover Glass (RCG)	
Note 	• This camera model includes a sensor with removed cover glass. • As protection for shipment, a special tape fixes the sensor glass. Tape and sensor glass have to be removed before using the camera. • We recommend removing the tape and the sensor glass in a dust-free environment: Without glass cover the sensor is mechanically very sensitive and has to be protected very carefully against humidity and dust.
Warranty precaution 	• Allied Vision does not warranty against any damage to the sensor as soon as the tape is removed. • RCG cameras have the standard 2 year warranty on the electronics, but there is no warranty on the sensor.

Table 26: Pike F-1100/F-1600, Stingray, and Manta RCG sensors:
Note and warranty precaution



How to order a Manta / Stingray board level camera

- The **Modular concept** provides several options for board level cameras, for example, different lengths for the flex cables. The following pages describe how to order a Manta / Stingray board level camera.
- The **Modular concept** is beneficial because all listed options:
 - Avoid customizing effort
 - Are ready to order
 - Lead to quick delivery times
 - Are priced transparently
- Note: Contact your sales representative for minimum order quantities.

Ordering a Manta board level camera (not available for G-282 / 283 / 505 / 609 / 917)

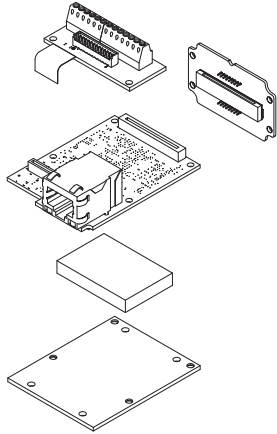
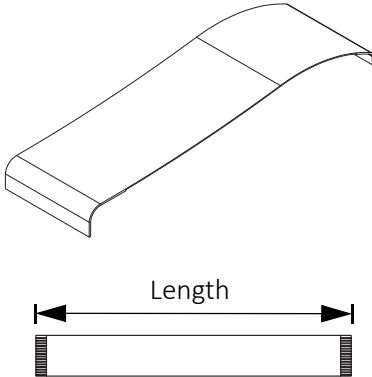
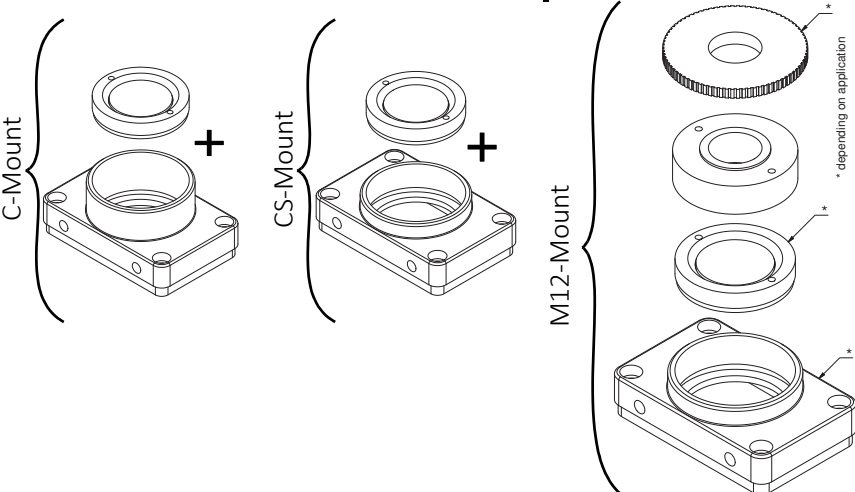
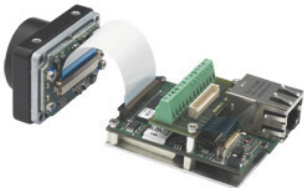
Step 1: Select the camera type ...		Step 2: Select the flex cable ...		Step 3: Select the lens mount and filter ...						
 Camera type is: sensor board + main board + IO board + thermal conductive film + cooling plate		 + Flex cable Note  Flex cables are not sold separately!		 Choose between these 3 mounting types. Each mounting type has: • Built-in filter or • Protection glass						
Camera type • Manta G-...._BL • Manta G-...._BL PoE (Power over Ethernet only)		Flex cable Manta type A • Flex cable 56 mm FC56 • Flex cable 110 mm FC110 • Flex cable 152 mm FC152 • Flex cable 200 mm FC200 Flex cable Manta type B • Flex cable 60 mm FC60 • Flex cable 110 mm FC110 • Flex cable 150 mm FC150 • Flex cable 200 mm FC200		Mount • C-Mount • CS-Mount • M12-Mount Filter • ASG (protection glass) • IRC type Jenofilt 217 (IR cut filter) • IRC Hoya C5000 (IR cut filter) • IRP RG715 (IR pass filter) • IRP RG830 (IR pass filter)						
				Order each mount with one of the following built-in filters (see Figure 2: Spectral transmission of filters (exemplary curves) on page 22/Manta options on page 6): <table><tr><td>MANTA G-... ASG</td></tr><tr><td>MANTA G-... IRC Jenofilt</td></tr><tr><td>MANTA G-... IRC Hoya</td></tr><tr><td>MANTA G-... IRP RG715</td></tr><tr><td>MANTA G-... IRP RG830</td></tr></table>		MANTA G-... ASG	MANTA G-... IRC Jenofilt	MANTA G-... IRC Hoya	MANTA G-... IRP RG715	MANTA G-... IRP RG830
MANTA G-... ASG										
MANTA G-... IRC Jenofilt										
MANTA G-... IRC Hoya										
MANTA G-... IRP RG715										
MANTA G-... IRP RG830										

Table 27: Order a Manta board level camera (steps 1-3)



Ordering a Manta board level camera

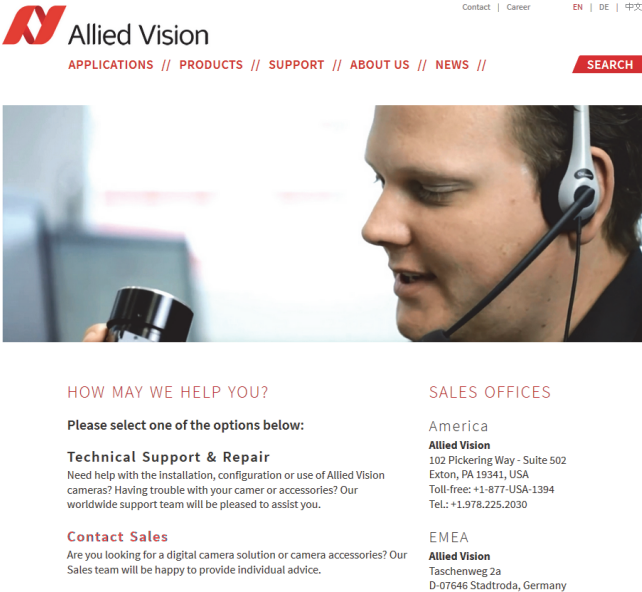
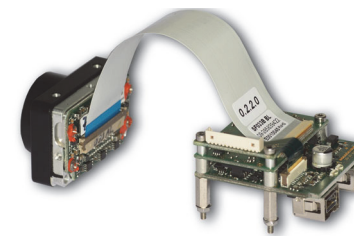
Step 4: Select the I/O cabling ...		Step 5: Contact Allied Vision...	
 I/O cable (13-pin to open end)		Allied Vision contact webpage: www.alliedvision.com/en/contact 	
GigE cable: - Category 6 (or higher) cables with S/STP shielding and connectors are recommended. I/O cable: - I/O cable, 13-pin to open end 3.0 m - I/O cable, 13-pin to open end 5.0 m Please find more cables and accessories at: www.alliedvision.com/en/contact		See contact information on page 2. Order: - Camera type - Flex cable (FC number ...) - Lens mounting type (optional) (name) - I/O cable (optional)	

Table 28: Order a Manta board level camera (steps 4-5)

Ordering a Stingray board level camera



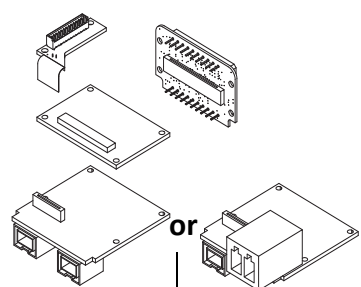
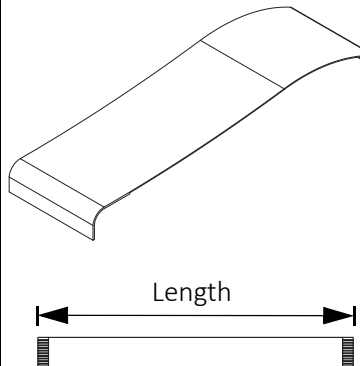
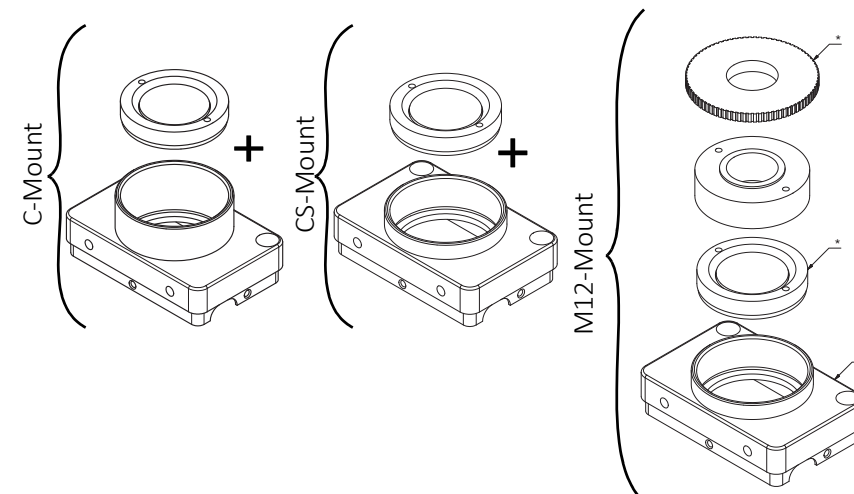
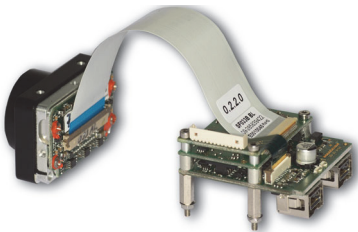
Step 1: Select the camera type ...		Step 2: Select the flex cable ...	Step 3: Select the lens mount and filter ...											
 2 x 1394b copper or 1 x 1394b copper 1 x 1394b GOF Camera type is: sensor board + 2 main boards + 13-pole connector		 + Flex cable Note Flex cables are not sold separately!	 Choose between these 3 mounting types. Each mounting type has: - Built-in filter or - Protection glass * depending on application											
Camera type - Stingray F-...._BL or - Stingray F-...._BL fiber		Flex cable - Flex cable 56 mm FC56 - Flex cable 110 mm FC110	Mount - C-Mount - CS-Mount - M12-Mount	Order each mount with one of the following built-in filters (see Figure 2: Spectral transmission of filters (exemplary curves) on page 22): <table><tr><td>• ASG (protection glass)</td><td>Stingray F-... ASG</td></tr><tr><td>• IRC type Jenofilt 217 (IR cut filter)</td><td>Stingray F-... IRC Jenofilt</td></tr><tr><td>• IRC Hoya C5000 (IR cut filter)</td><td>Stingray F-... IRC Hoya</td></tr><tr><td>• IRP RG715 (IR pass filter)</td><td>Stingray F-... IRP RG715</td></tr><tr><td>• IRP RG830 (IR pass filter)</td><td>Stingray F-... IRP RG830</td></tr></table>	• ASG (protection glass)	Stingray F-... ASG	• IRC type Jenofilt 217 (IR cut filter)	Stingray F-... IRC Jenofilt	• IRC Hoya C5000 (IR cut filter)	Stingray F-... IRC Hoya	• IRP RG715 (IR pass filter)	Stingray F-... IRP RG715	• IRP RG830 (IR pass filter)	Stingray F-... IRP RG830
• ASG (protection glass)	Stingray F-... ASG													
• IRC type Jenofilt 217 (IR cut filter)	Stingray F-... IRC Jenofilt													
• IRC Hoya C5000 (IR cut filter)	Stingray F-... IRC Hoya													
• IRP RG715 (IR pass filter)	Stingray F-... IRP RG715													
• IRP RG830 (IR pass filter)	Stingray F-... IRP RG830													

Table 29: Order a Stingray board level camera (steps 1-3)



Order a Stingray board level camera

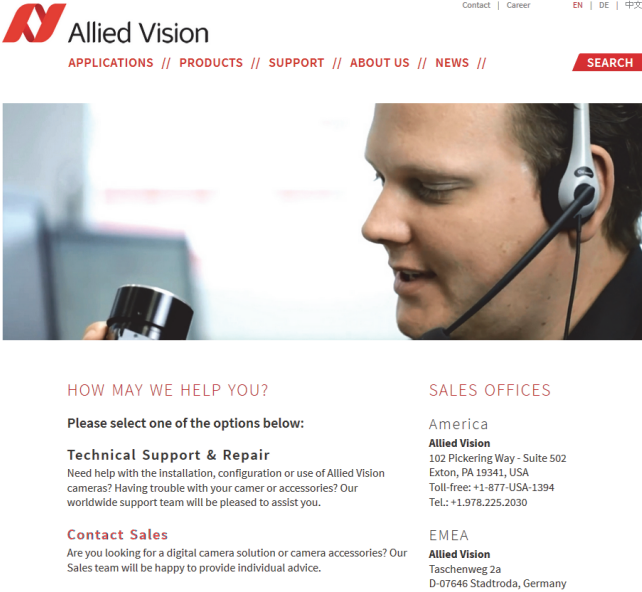
Step 4: Select the 1394 cabling (1394b + I/O) ...		Step 5: Contact Allied Vision...	
 1394b cable screw lock (9-pin to 9-pin)  I/O cable (13-pin to open end)		Allied Vision contact webpage: www.alliedvision.com/en/contact 	
1394b cable: 1394b cable, 9-pin screw lock to 9-pin screw lock 5.0 m 1394b cable, 9-pin screw lock to 6-pin standard 4.5 m I/O cable: - I/O cable, 13-pin to open end 3.0 m - I/O cable, 13-pin to open end 5.0 m Please find more cables and accessories at: www.alliedvision.com/en/contact		See contact information on page 2. Order: - Camera type - Flex cable (FC number ...) - Lens mounting type (optional) (Name) 1394b cable and I/O cable (optional)	

Table 30: Order a Stingray board level camera (steps 4-5)