

## Compliance

Allied Vision has demonstrated compliance to

- Directive 2001/95/EC (general product safety)
- Regulation (EC) 1907/2006 (REACH)
- Directive 2011/65/EU incl. amendment 2015/863/EU (RoHS).

## Contacting Allied Vision

### Ordering and general information:

<https://www.alliedvision.com/en/contact>

[info@alliedvision.com](mailto:info@alliedvision.com)

### Telephone

**EMEA:** +49 36428-677-0

**The Americas:** +1 978-225-2030

**Asia-Pacific:** +65 6634-9027

**China:** +86 21 64861133

### Support:

[support@alliedvision.com](mailto:support@alliedvision.com)

## I/O cables

| Part number | Legacy Part number               | Camera connection      | Pins | Peripherals connection | Length [m] |
|-------------|----------------------------------|------------------------|------|------------------------|------------|
| 9436        | -                                | Hirose female          | 6    | Open end               | 2.0        |
| 9437        | -                                | Hirose female          | 6    | Open end               | 5.0        |
| 9438        | -                                | Hirose female          | 6    | Open end               | 10.0       |
| K1200196    | -                                | Hirose female          | 8    | Open end               | 2.0        |
| K1200197    | -                                | Hirose female          | 8    | Open end               | 5.0        |
| 2814        | K1200191                         | Hirose female          | 12   | Open end               | 2.0        |
| 2815        | K1200192<br>02-6033A<br>02-6031A | Hirose female          | 12   | Open end               | 3.0        |
| 2817        | K1200193                         | Hirose female          | 12   | Open end               | 5.0        |
| 2818        | K1200194                         | Hirose female          | 12   | Open end               | 10.0       |
| 12319       | -                                | JST<br>no screw lock   | 7    | Open end               | 0.4 m      |
| 12322       | -                                | JST<br>with screw lock | 7    | Open end               | 3.0 m      |
| K1200301    | -                                | PicoBlade              | 13   | Open end               | 3.0        |
| K1200302    | -                                | PicoBlade              | 13   | Open end               | 5.0        |
| 2792        | 02-6041A                         | Mini-D shell           | 14   | Open end               | 3.0        |
| 2793        | -                                | Mini-D shell           | 14   | Open end               | 5.0        |
| 2794        | -                                | Mini-D shell           | 14   | Open end               | 1.0        |

## Trigger cables

Trigger cables are connected only to Trigger IN 1.

| Part number | Camera connection | Pins | Peripherals connection | Length [m] |
|-------------|-------------------|------|------------------------|------------|
| K1200229*   | Hirose female     | 8    | Open end               | 10.0       |
| K1200267    | Hirose female     | 12   | BNC                    | 2.0        |
| K1200252    | Hirose female     | 12   | BNC                    | 5.0        |
| K1200240    | Hirose female     | 12   | Open end               | 2.0        |
| K1200244    | Hirose female     | 12   | Open end               | 10.0       |
| 1068908     | Hirose female     | 12   | BNC                    | 2.0        |
| 1068909     | Hirose female     | 12   | BNC                    | 5.0        |

- \* Guppy: connected to PWR and to Trigger IN1  
Mako G: connected to PWR only

## Power cables

Power cables do not support I/Os or triggering.

| Part number | Camera connection | Pins | Peripherals connection | Length [m] |
|-------------|-------------------|------|------------------------|------------|
| 1068904     | Hirose female     | 4    | Open end               | 2.0        |
| 1068905     | Hirose female     | 4    | Open end               | 3.0        |
| 1068906     | Hirose female     | 4    | Open end               | 5.0        |
| 1068907     | Hirose female     | 4    | Open end               | 10.0       |
| K1200229*   | Hirose female     | 8    | Open end               | 10.0       |

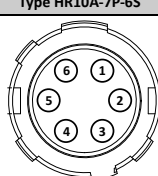
- \* Guppy: connected to PWR and to Trigger IN1  
Mako G: connected to PWR only

## I/O connector pin assignment

I/O connectors are used for I/O cables and for trigger cables.

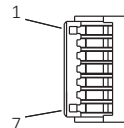
### 6-pin I/O connector

Mako U

| Type HR10A-7P-6S  | Pin | Color  |
|---|-----|--------|
|  | 1   | White  |
|   | 2   | Brown  |
|   | 3   | Green  |
|   | 4   | Yellow |
|   | 5   | Gray   |
|   | 6   | Pink   |

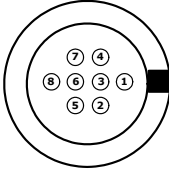
### 7-pin I/O connector

Alvium USB cameras

| Type JST SHR-07V-S  | Pin | Color with screw lock | Color without screw lock |
|---|-----|-----------------------|--------------------------|
|  | 1   | Red                   | Blue                     |
|   | 2   | Brown                 | Blue                     |
|   | 3   | Orange                | Blue                     |
|   | 4   | Yellow                | Blue                     |
|   | 5   | Green                 | Blue                     |
|   | 6   | Black                 | Blue                     |
|   | 7   | Transparent           | Blue                     |

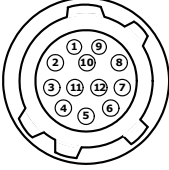
### 8-pin I/O connector

Guppy, Mako G

| Type HR25A-7TP-8S  | Pin | Color            |
|--|-----|------------------|
|  | 1   | Yellow dot Red   |
|  | 2   | Yellow dot Black |
|  | 3   | Gray dot Red     |
|  | 4   | Gray dot Black   |
|  | 5   | Pink dot Black   |
|  | 6   | Pink dot Red     |
|  | 7   | Orange dot Black |
|  | 8   | Orange dot Red   |

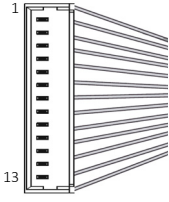
### 12-pin I/O connector

Bonito PRO, Goldeye G/CL, Guppy PRO, Manta, Prosilica GC, Prosilica GT, Prosilica GX, Stingray

| Type HR10A-10P-12S   | Pin | Color  | Pin | Color       |
|--|-----|--------|-----|-------------|
|  | 1   | Blue   | 7   | Brown       |
|  | 2   | Red    | 8   | White       |
|  | 3   | Pink   | 9   | Black       |
|  | 4   | Gray   | 10  | Orange      |
|  | 5   | Yellow | 11  | White/Black |
|  | 6   | Green  | 12  | White/Brown |

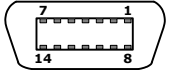
### 13-pin Molex PicoBlade I/O connector

Manta, Stingray board level cameras

| Type Molex PicoBlade  | Pin | Color       | Pin | Color              |
|---|-----|-------------|-----|--------------------|
|  | 1   | Blue        | 8   | White              |
|   | 2   | Red         | 9   | Black              |
|   | 3   | White/Black | 10  | Orange             |
|   | 4   | Gray        | 11  | White/Brown        |
|   | 5   | Yellow      | 12  | Violet             |
|   | 6   | Green       | 13  | Shield-Transparent |
|   | 7   | Brown       |     |                    |

### 14-pin Mini-D I/O connector

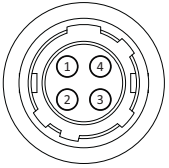
Prosilica GB, Prosilica GS

| Type Mini-D   | Pin | Color  | Pin | Color       |
|---|-----|--------|-----|-------------|
|  | 1   | Red    | 8   | -           |
|   | 2   | Black  | 9   | -           |
|   | 3   | White  | 10  | Yellow      |
|   | 4   | Brown  | 11  | White/Brown |
|   | 5   | Green  | 12  | Pink        |
|   | 6   | Blue   | 13  | White/Black |
|   | 7   | Orange | 14  | Gray        |

## Power connector pin assignment

### 4-pin power connector

Goldeye G/CL Cool

| Type HR10A-7P-4S(73)   | Pin | Color              |
|--|-----|--------------------|
|  | 1   | Black              |
|  | 2   | Brown              |
|  | 3   | Red                |
|  | 4   | Orange             |
|  | -   | Shield-Transparent |

## Additional information

For additional technical information, such as input ranges, see your camera's technical manual at:

<https://www.alliedvision.com/en/support/technical-documentation>

For additional technical information on the cables, see:

<https://www.alliedvision.com/en/products/accessories.html>

## Disclaimer

All trademarks are acknowledged as property of their respective owners. All rights reserved.  
Copyright © 2019 Allied Vision Technologies GmbH.

### Headquarters:

Allied Vision Technologies GmbH  
Taschenweg 2a  
07646 Stadtroda  
Germany

All rights reserved.  
Geschäftsführer (MD): Andreas Gerke, Peter Tix  
Tax ID: DE 184383113

