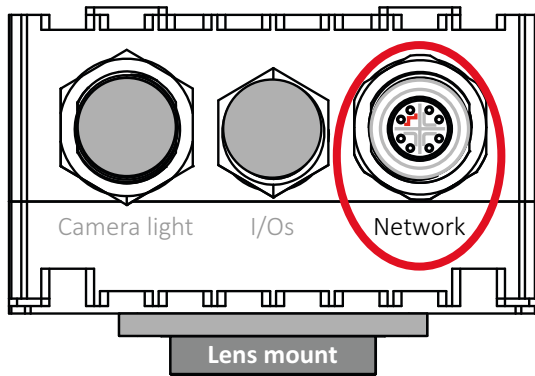


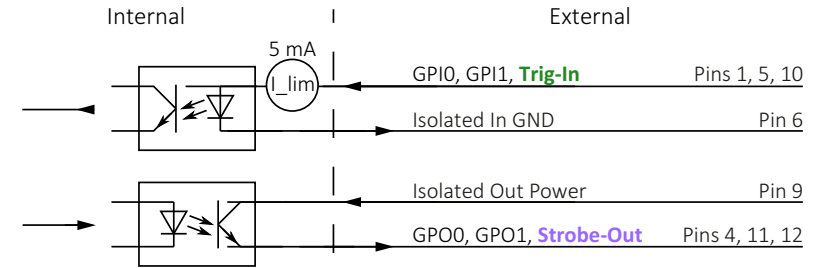
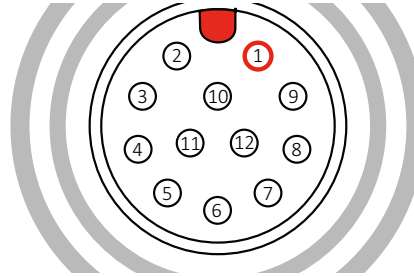
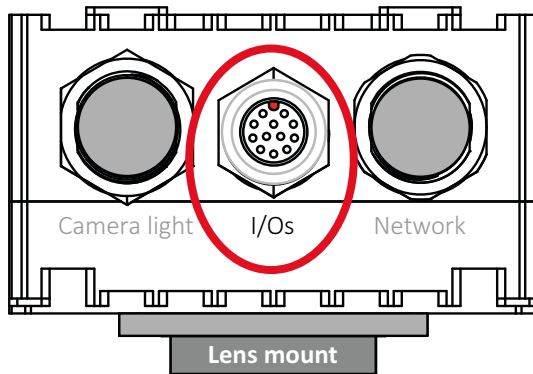


Get your Alecs running

1 Connect to the network



2 Connect power and I/Os



Pin	Color ⁽¹⁾	Signal	Direction	Level	Description
1	Brown	GPIO	In	$V_{in(high)} = 3.0 \text{ to } 24.0 \text{ VDC}^{(2)}$ $V_{in(low)} = 0 \text{ to } 1.0 \text{ VDC}$	Opto-isolated input
2	Orange	RS485+	In/Out	Max. common mode range $\pm 25 \text{ VDC}$	RS485 interface, positive
3	Yellow	RS485-	In/Out	See Pin 2 (RS485+)	RS485 interface, negative
4	Green	GPO0	Out	Open emitter, max. 10 mA	Opto-isolated output
5	Blue	GPI1	In	See Pin 1 (GPIO)	Opto-isolated input
6	Purple	OPTO-IN-GND	—	0 VDC	Opto-isolated input ground
7	Red	PWR-IN	In	24 VDC ($\pm 10\%$)	Power supply voltage
8	Black	PWR-GND	—	0 VDC	Supply ground
9	Gray	OPTO-OUT-PWR	In	Max. 30 VDC	Power for Opto-isolated output
10	White	Trig-In ⁽³⁾	In	See Pin 1 (GPIO)	Opto-isolated trigger input
11	Pink	GPO1	Out	See Pin 4 (GPO0)	Opto-isolated output
12	Light green	Strobe-Out ⁽³⁾	Out	See Pin 4 (GPO0)	Opto-isolated strobe trigger output

¹ Open ends of power and I/O cables by Allied Vision | ² For >24.0 to 36 VDC , connect a $3.3 \text{ k}\Omega$ external resistor in series.

³ Logical signals are: **Line0**, **Line1**, see next:

Logical line	Direction	Connector	Electrical line	Active when	Usage (example)
Line0	Input	12-pin I/O connector	Trig-In	Level = High	<i>FrameStart</i>
Line1	Output	12-pin I/O connector	Strobe-Out	Level = High	<i>ExposureActive</i>
		5-pin lighting connector	Strobe PNP-Out	Level = High	

Note: GPIO, GPI1, GPO0, and GPO1 are SoM I/Os that can be controlled by the transport layer module.



Material damage by wrong powering

Provide power input:

- Alecs only: $24 \text{ VDC} \pm 10\%$ and $\geq 1.5 \text{ A}$
- Alex with RMX140 ring light: $24 \text{ VDC} \pm 10\%$ and $\geq 7 \text{ A}$



Get your Alecs running

3 Acquire a first image

Alecs uses JetPack 6.2 (Jetson Linux 36.4.3) that is based on Ubuntu 22.04 LTS (Long Term Support).

1. Set up an SSH (Secure Shell Protocol) connection:
IP address: 192.168.1.10 | User name: alecs | Password: alecs
2. Select from these 3 options to quickly get an image from Alecs:
 - 2.1. Easiest:
 - 2.1.1. Start **open eVision Demonstrator** in the browser of any PC in the same network:
`http://192.168.1.10:8080` (Step 1 SSH is not needed).
 - 2.1.2. See [open eVision Web Demonstrator](#) on page 116.
 - 2.2. Full feature exploration with **Vimba X Viewer**
(with small restrictions in performance due to X11 forwarding):
 - 2.2.1. On Windows systems, install an SSH client with X support
(such as **MobaXterm X11** server).
 - 2.2.2. Connect to Alecs with
`ssh -X alecs@192.168.1.10`
 - 2.2.3. Open **VimbaXViewer**.
 - 2.3. Most versatile (LXB-G1-...-NX... **models only**):
 - 2.3.1. Type in the Terminal
`source .venv/bin/activate`
to access the virtual environment.
 - 2.3.2. Copy **stream.sdp** to your receiving system.
 - 2.3.3. Run
`send_stream.py <destination IP>`
using Python on your Alecs.

Start **stream.sdp** with **VLC Player** (for example) on your receiving system.

4 Get more information

Item	Link
Alecs User Guide	www.alliedvision.com/en/support/alecs-documentation
Alecs Features Reference	www.alliedvision.com/en/support/alecs-documentation
Jetpack BSP	Please contact your Allied Vision Sales representative or visit www.alliedvision.com/en/about-us/contact-us/contact-sales .
Vimba X documentation	www.alliedvision.com/en/products/software/vimba-x-sdk
STEP file downloads	www.alliedvision.com/en/support/alecs-documentation
Accessories	www.alliedvision.com/en/products/accessories
Distribution partners	www.alliedvision.com/en/avt-locations/avt-distributors
Support	www.alliedvision.com/en/support www.alliedvision.com/en/about-us/contact-us/technical-support-repair/-rma

Alecs downloads:

