

# Device: AIDA POV



## Introduction

The AIDA UHD6G-X12L and UHD-100 can be controlled through RS-485 by using a Ethernet to Serial connection.

Please note the AIDA POV device cores are listed as Planned though they should be listed as Alpha. If you are unable to find the cores in the Online Configuration, make sure you check the box next to Planned.

## Ethernet to Serial connection

To communicate via serial (RS-485) to the AIDA POV you need an Ethernet-Serial converter. We suggest you get a USR-TCP232-306 from USR IOT -<https://www.pusr.com/products/ethernet-to-serial-converters-usr-tcp232-306.html>

Below you will find screenshots of how to configure the USR-TCP232-306 converter (found on the web interface of the TCP232-306). Notice the IP address of the TCP232-306 (Static IP Address) must match the IP settings of the Marshall CV350-10CX Device Core.

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**Current Status**

**Local IP Config**

**Serial Port** **(Selected)**

**Expand Function**

**Misc Config**

**Reboot**

**parameter**

- Baud Rate: 38400 bps
- Data Size: 8 bit
- Parity: None
- Stop Bits: 1 bit
- Local Port Number: 5000 (0~65535)
- Remote Port Number: 8000 (1~65535)
- Work Mode: TCP Server
- Remote Server Addr: 192.168.0.48 [192.168.0.48]
- RESET:
- LINK:
- INDEX:
- Similar RFC2217:

**Help**

- HTTPD URL:** Module add URL automatically GET/POST and HTTP/1.1 in URL automatically according to user's setting.
- HTTPD Packet Header:** Module add HOST automatically according to user's setting. Add Content Length automatically in POST mode.

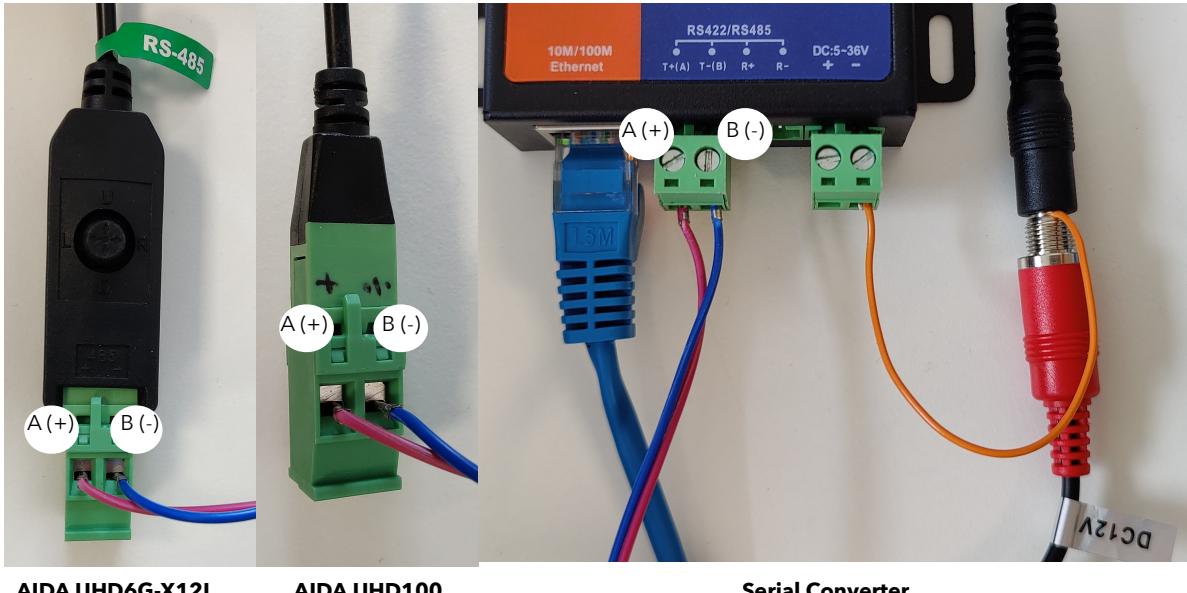
**Save** **Cancel**

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Please note the Baud Rate set in the serial converter must match the Baud Rate set in the camera.



## **Wiring to the Camera/Converter**



## Confirm Connection

The Serial Monitor from the Firmware Application can be used to monitor connection status.

Main IP Config Serial Monitor

SKAARHOJ Controller Booting

SK VERSION: master

SK RELEASE: SK-AU022V2

SK SERIAL: 434774

Initialized PTF Trace EEPROM handler, saving allowed.

Build time: 2023-07-17T08:56:00Z

I2C 400 kHz mode activated

\*\*\* Init Module XC27 [Inline 22 V2] \*\*\*:

MAC address: 92:A1:D4:C1:4F:2F

Network interface 0: OK

IP address: 192.168.10.19

Subnet mask: 255.255.255.0

Gateway: 192.168.10.1

DNS: 192.168.10.1

Boots Count: 129

Uptime: 30 hours 46 minutes

Software version: 0.0.0.0

Usage Stats Flags: 11

Compiled: Sep 10 2020 11:15:19

Invalid device type option! >>>[<AIDAHSB6GX1ZL>]<

Device type #0 AIDAHSB6GX1ZL IP = 192.168.10.48

ClientISCActorServer: devicelIdx: 0

VISChbase: Max number of cameras: 7

VISChbase: Max number of retransmit: 10

VISChbase: ENABLING fast reset with no retransmit

setup() Done

Connecting to 192.168.10.48:5000

System action 17

Connection established to 192.168.10.48:5000

Connecting to 192.168.10.49:5000

System action 18

VISChbase: Connection to Camera 1 (0.0.0.0) established, pulling status

Received block command 0 for camera 1

System action 17

Received block command 1 for camera 1

Received block command 2 for camera 1

Could t connect to 192.168.10.51:5000

Connecting to 192.168.10.50:5000

Received block command 3 for camera 1

Received block command 4 for camera 1

Could t connect to 192.168.10.50:5000

Connecting to 192.168.10.51:5000

[18]

Couldn't connect to 192.168.10.51:5000

Connecting to 192.168.10.52:5000

Couldn't connect to 192.168.10.52:5000

Connecting to 192.168.10.53:5000

[24]

,couldn't connect to 192.168.10.53:5000

Connecting to 192.168.10.54:5000

Status received from camera 1!

Device command: 0x10000000000000000000000000000000

242

.242

.242

.242

Reset

Config

Debug

Ok

Clear Presets

Scroll down

Clear

Connection to the camera has been established when the Serial Monitor reports:

VISCAbase: Connection to cam 1 established, pulling status

Received block command 0 for camera 1

*Received block command 1 for camera 1*

*Received block command 2 for camera 1*

*Received block command 3 for camera 1*

*Received block command 4 for*

## Actions

An excerpt of the actions in the Device Cores

*AIDA UHD6G-X12L*

```
AIDA UHD6G-X12L: Zoom
AIDA UHD6G-X12L: Focus
AIDA UHD6G-X12L: Focus (Binary)
AIDA UHD6G-X12L: Focus Settings
AIDA UHD6G-X12L: Exposure Mode
AIDA UHD6G-X12L: Iris
AIDA UHD6G-X12L: Shutter
AIDA UHD6G-X12L: Gain
AIDA UHD6G-X12L: AE Speed
AIDA UHD6G-X12L: Ex-Comp. Enable
AIDA UHD6G-X12L: AE Bright
AIDA UHD6G-X12L: AE Comp
AIDA UHD6G-X12L: White Balance
AIDA UHD6G-X12L: WB One Push
AIDA UHD6G-X12L: WB R/B Gain
AIDA UHD6G-X12L: Contrast
AIDA UHD6G-X12L: Brightness
AIDA UHD6G-X12L: Saturation
AIDA UHD6G-X12L: Hue
AIDA UHD6G-X12L: Auto Saturate
AIDA UHD6G-X12L: Edge Enhance
AIDA UHD6G-X12L: Sens Up
AIDA UHD6G-X12L: Noise Reduction
AIDA UHD6G-X12L: Gamma Correct
AIDA UHD6G-X12L: Picture Effect
AIDA UHD6G-X12L: Flicker Mode
AIDA UHD6G-X12L: Lens Shading
AIDA UHD6G-X12L: Day / Night
AIDA UHD6G-X12L: Special
AIDA UHD6G-X12L: Image Flip
AIDA UHD6G-X12L: Menu Display
AIDA UHD6G-X12L: Menu Control
AIDA UHD6G-X12L: Black Level
AIDA UHD6G-X12L: White Level
AIDA UHD6G-X12L: Audio Mode
AIDA UHD6G-X12L: Audio Sample Bit Rate
AIDA UHD6G-X12L: Audio Volume
AIDA UHD6G-X12L: Camera Group Select
AIDA UHD6G-X12L: Speed Limit
AIDA UHD6G-X12L: Camera Select
```

*AIDA UH-100A*

```
AIDA UHD-100A: Digital Zoom Position
AIDA UHD-100A: Exposure Mode
AIDA UHD-100A: Shutter
AIDA UHD-100A: Gain
AIDA UHD-100A: AE Speed
AIDA UHD-100A: Ex-Cmp. Enable
AIDA UHD-100A: AE Bright
AIDA UHD-100A: AE Comp
AIDA UHD-100A: White Balance
AIDA UHD-100A: WB One Push
AIDA UHD-100A: WB R/B Gain
AIDA UHD-100A: Contrast
AIDA UHD-100A: Brightness
AIDA UHD-100A: Saturation
AIDA UHD-100A: Hue
AIDA UHD-100A: Auto Saturate
AIDA UHD-100A: Edge Enhance
AIDA UHD-100A: Sens Up
AIDA UHD-100A: Noise Reduction
AIDA UHD-100A: Gamma Correct
AIDA UHD-100A: Picture Effect
AIDA UHD-100A: Flicker Mode
AIDA UHD-100A: Lens Mode
AIDA UHD-100A: Lens Shading
AIDA UHD-100A: Day / Night
AIDA UHD-100A: Special
AIDA UHD-100A: Image Flip
AIDA UHD-100A: Menu Display
AIDA UHD-100A: Menu Control
AIDA UHD-100A: Black Level
AIDA UHD-100A: White Level
AIDA UHD-100A: Camera Group Select
AIDA UHD-100A: Camera Select
```