

Device: IO Industries Victorem 4KSDI-Mini



Introduction

The Victorem from IO Industries can be controlled from SKAARHOJ panels using a Ethernet-Serial converter. The Device Core is still in Alpha

Ethernet to Serial connection

To communicate via serial (RS-485) to the camera you need an Ethernet-Serial converter. We suggest you get a XS1200 from US Converters - <http://www.usconverters.com/serial-rs232-device-server>

There is a quirk you should know about: The XS1200 only accepts a single TCP connection at a time and it will take some time to realise if a client disconnected silently before it allows a new connection. In essence this means if the SKAARHOJ controller was connected and is rebooted without disconnecting, the XS1200 Server may not realise this before after some time. Therefore you may need to powercycle it along with the SKAARHOJ controller to make sure it will accept a connection.

SKAARHOJ DEVICE CORES

Below you will find screenshots of how to configure the XS1200 converter (found on the web interface of the XS1200). Notice the IP address of the XS1200 (Static IP Address) must match the IP settings of the Victorem Device Core.

In the settings below the Baud Rate is set to 115200, Serial Type to RS485 and Transmit Timer to 50.

The screenshot shows the configuration interface for a SERIAL TO ETHERNET CONVERTER P/N: XS1200. The interface includes tabs for Basic, Advance, and Security, with the Basic tab selected. The page title is "SERIAL TO ETHERNET CONVERTER P/N: XS1200 WWW.USCONVERTERS.COM" and the version is "Ver:3.6.1(18/08)". A "Logout" link is also present.

Serial Settings

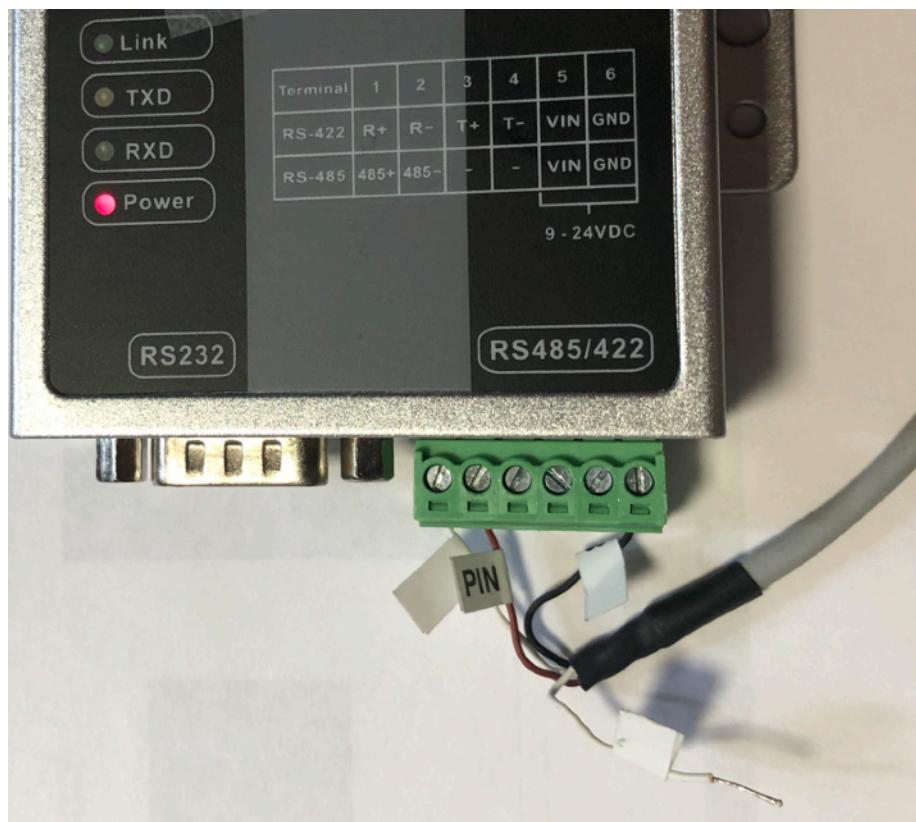
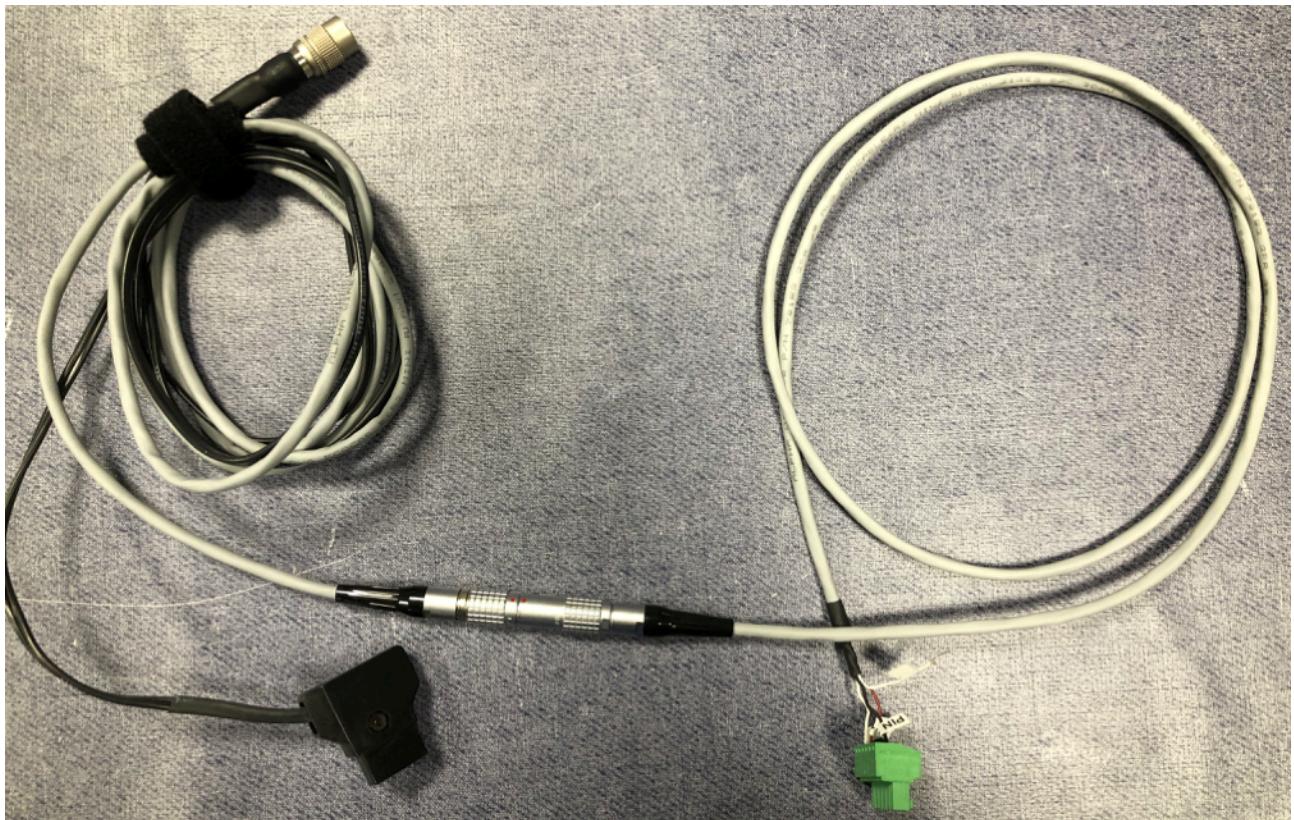
Device Name	DSM1
Data Baud Rate	115200
Data Bits	8
Data Parity	None
Stop Bits	1
Flow Control	None
Serial Type	RS485

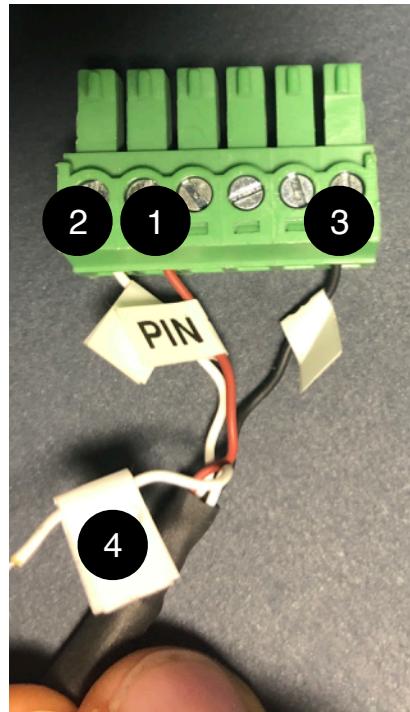
Network Settings

DHCP Client	Disable	
Static IP Address	192.168.10.38	
Static Subnet Mask	255.255.255.0	
Static Default Gateway	192.168.10.1	
Static DNS Server	192.168.10.1	
Connection Type	TCP	
Transmit Timer	50	<i>Please enter an integer between 10~65535 ms</i>
Server/Client Mode	Server	
Server Listening Port	5000	<i>Please enter an integer between 1~65535</i>
Client Destination Host Name/IP	192.168.10.166	<i>Please enter host name or IP address</i>
Client Destination Port	5000	<i>Please enter an integer between 1~65535</i>

Buttons at the bottom include Apply, Cancel, Reboot, and Restore default.

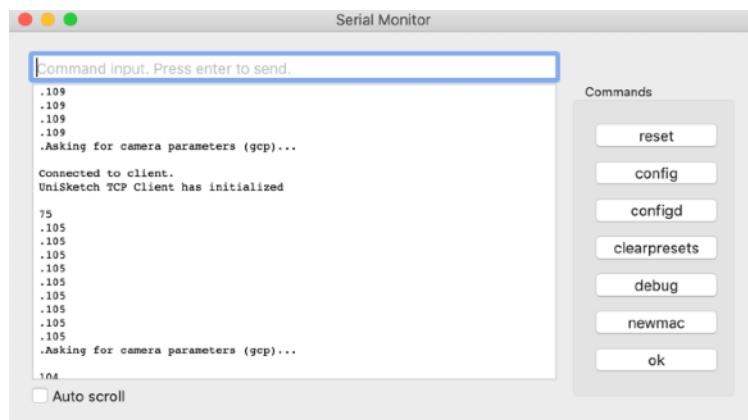
Wiring to the Camera/Converter





Confirm Connection

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



When the Serial Monitor reports

. Asking for camera parameters (gcp)...

Connected to client.

UniSketch TCP Client has initialized

connection to the XS1200 and the camera have been established.

Device Configurations

Device configuration options exist:

- Index 0: **Disable requirement for feedback from camera**
 - If "1" = Requirement is disabled

Notice: Device Core Option is currently only available from branch:

iovictorem_ignore_replies

Example I:

Enabling "Disable requirement" could look like this device configuration code: "D0:0=1" where the general form would be "Dx:y=z" where "x" is the number of the device core as installed on the controller (starting with zero for the first device core), "y" the index number and "z" the value for that index.

If the IO Industries device core is the first like below:

Then setting the "Disable requirement" would be set by this configuration under "Manage Media" on your configuration page for your controller on cores.skaarhoj.com

The screenshot shows the SKAARHOJ UniSketch OS configuration interface. On the left is a sidebar with navigation links: Controller Configuration, Device Cores (selected), Manage Configurations, Manage Media (disabled), Button Labels, and Firmware Overview. The main content area is titled "Manage Media" and contains a sub-section "Device Core Options". It includes a note about adding media content and a text input field containing "D0:0=1". Below this is a "Strings" section with a "Note on Local Label Formats for Strings" and an "Add String" button. At the bottom are "Save Settings" and "Add Image" buttons.

Actions

An excerpt of the actions in the Device Core

```
IO Industries Victorem Cameras: Exposure Mode
IO Industries Victorem Cameras: Shutter
IO Industries Victorem Cameras: Iso
IO Industries Victorem Cameras: Gain
IO Industries Victorem Cameras: AEC Min/Max
IO Industries Victorem Cameras: AEC Target
IO Industries Victorem Cameras: AEC Speed
IO Industries Victorem Cameras: Aperture
IO Industries Victorem Cameras: Master Pedestal
IO Industries Victorem Cameras: TWB
IO Industries Victorem Cameras: TWB Speed
IO Industries Victorem Cameras: One-Push WB
IO Industries Victorem Cameras: Color Temp
IO Industries Victorem Cameras: Color Matrix
IO Industries Victorem Cameras: Color Offset
IO Industries Victorem Cameras: Saturation
IO Industries Victorem Cameras: LUT 1D
IO Industries Victorem Cameras: LUT 3D
IO Industries Victorem Cameras: LUT RGB 1D
IO Industries Victorem Cameras: Gamma
IO Industries Victorem Cameras: Gamma Reset
IO Industries Victorem Cameras: Black Balance
IO Industries Victorem Cameras: Image Enhance
IO Industries Victorem Cameras: Overshoot
IO Industries Victorem Cameras: Chroma Err Correction
IO Industries Victorem Cameras: Profiles
IO Industries Victorem Cameras: Reset to PUP
IO Industries Victorem Cameras: Link Configuration
IO Industries Victorem Cameras: Resolution
IO Industries Victorem Cameras: Sampling
IO Industries Victorem Cameras: Frame Rate
IO Industries Victorem Cameras: Zone Position
IO Industries Victorem Cameras: Zone Overlay
IO Industries Victorem Cameras: Test Pattern
IO Industries Victorem Cameras: Image Flip
IO Industries Victorem Cameras: OSD Primary
IO Industries Victorem Cameras: Fan Control
IO Industries Victorem Cameras: Menu
```