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

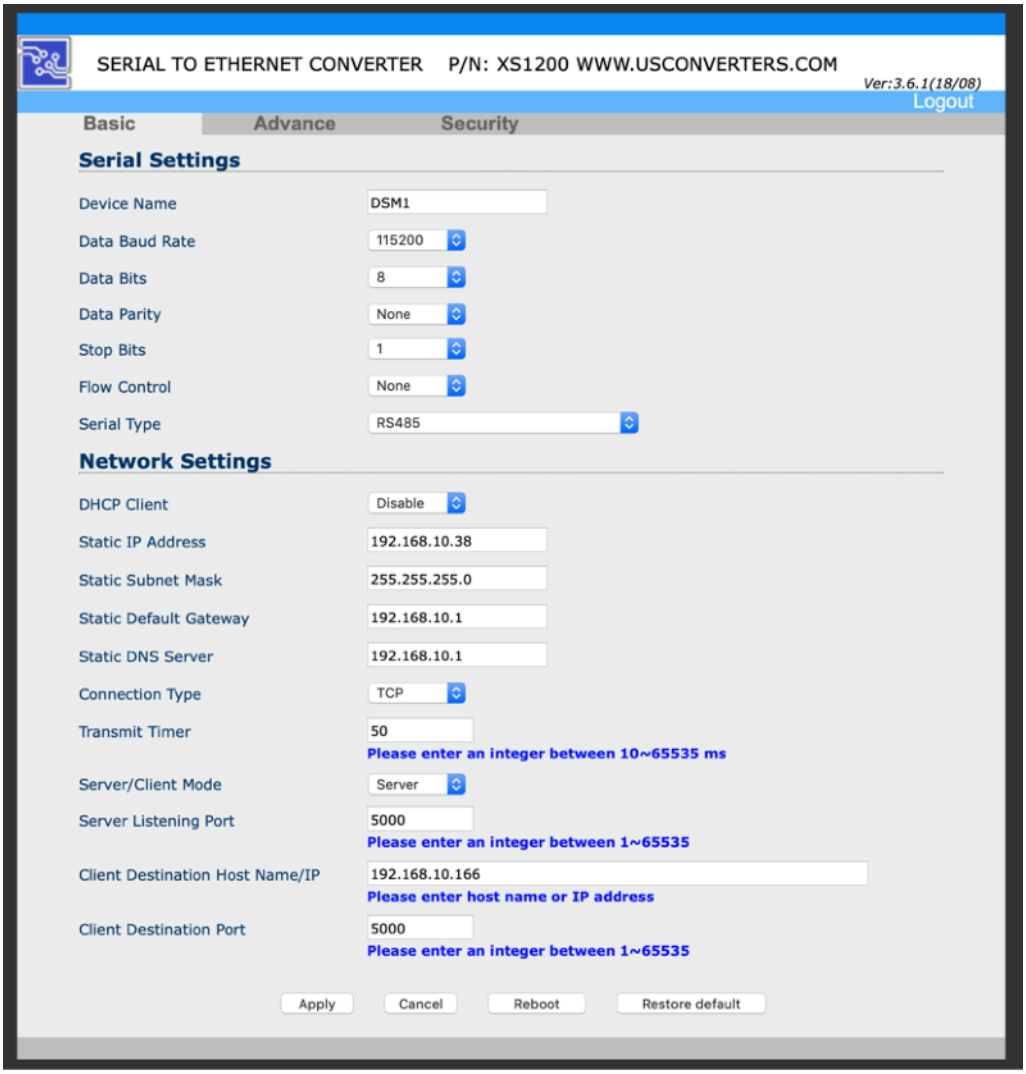
Ethernet to Serial connection

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

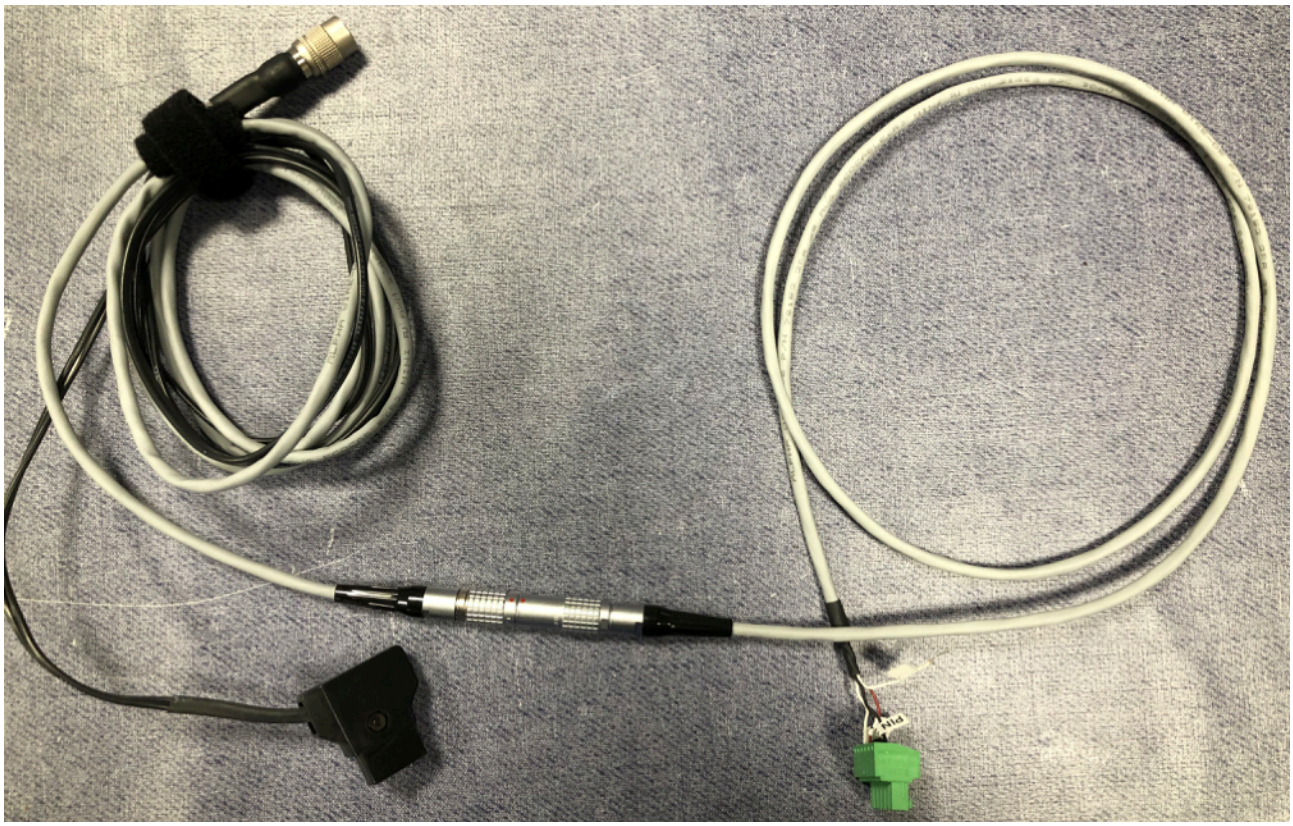
There is a quirk you should know about: The XS1200 only accepts a single TCP connection at a time and it will take some time to realise if a client disconnected silently before it allows a new connection. In essence this means if the SKAARHOJ controller was connected and is rebooted without disconnecting, 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.

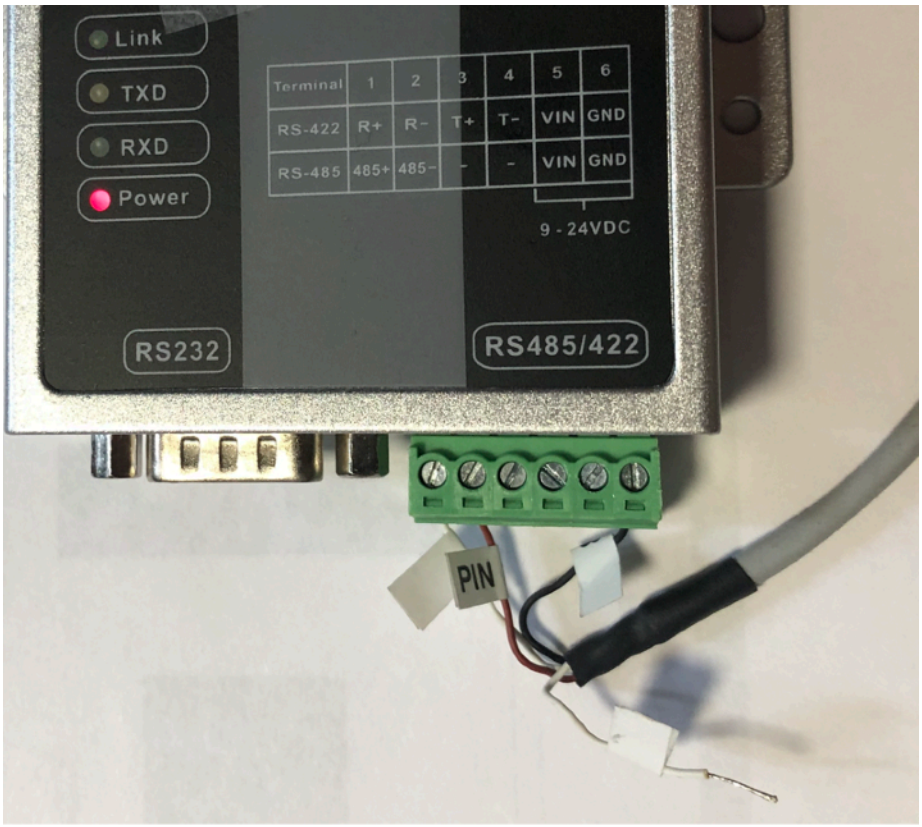
Below you will find screenshots of how to configure the XS1200 converter (found on the web interface of the XS1200). Notice the IP address of the XS1200 (Static IP Address) must match the IP settings of the Victorem Device Core.

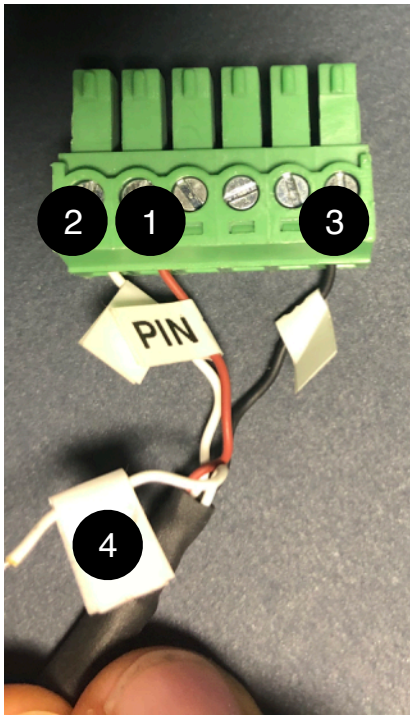
In the settings below the Baud Rate is set to 115200, Serial Type to RS485 and Transmit Timer to 50.



Wiring to the Camera/Converter






2
1
3
PIN
4

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:

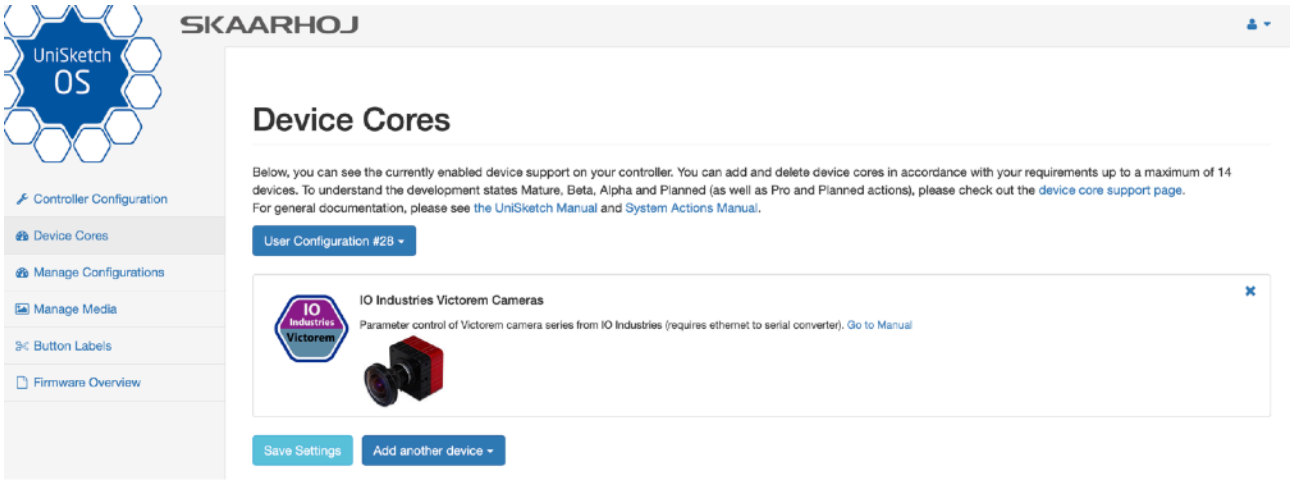
- Index 0: **Disable requirement for feedback from camera**
  - If "1" = Requirement is disabled

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

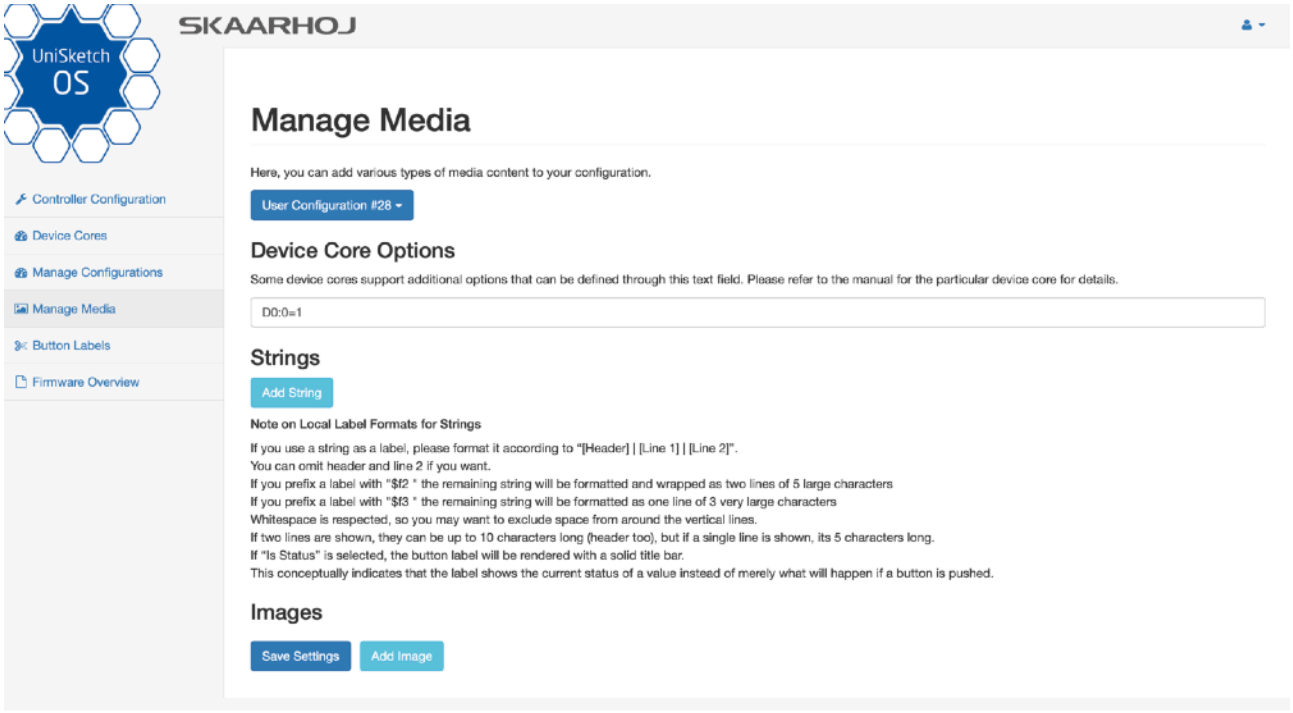
Example I:

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



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