

Device: OPTOver.P-A



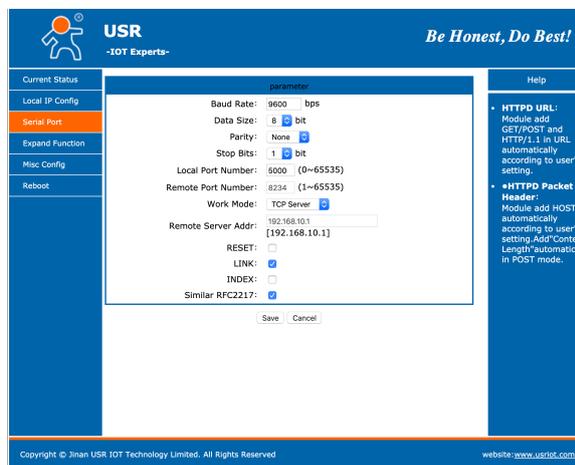
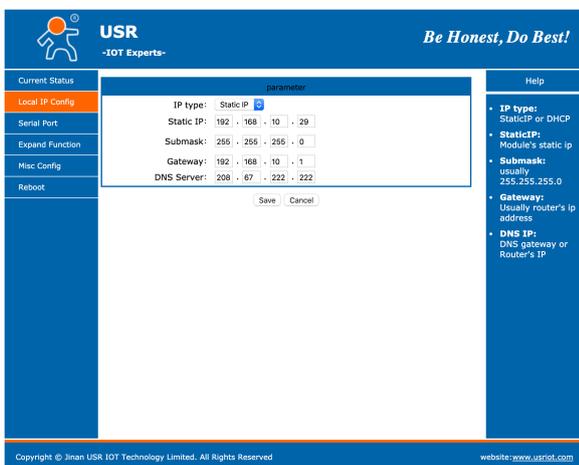
Introduction

The OPTOver.P-A 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-232) to the camera you need an Ethernet-Serial converter. We suggest you get a TCP232-306 from USR- <https://www.usriot.com/products/serial-to-ethernet-server.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 OPTOver.P-A.



RS-232 Connection Pin Out for Camera

Camera In	
Pin No.	MINI DIN
1	DTR IN
2	DSR IN
3	TXD IN
4	GND
5	RXD IN
6	GND
7	-
8	-

Camera Out	
Pin No.	MINI DIN
1	DTR OUT
2	DSR OUT
3	TXD OUT
4	GND
5	RXD OUT
6	GND
7	-
8	-

Dials and Dip Switches

Address: Set to 1

Protocol: Set to 0 for Baud Rate 9600 bps

System Select: See OPTOver.P-A manual for video formats

Communication: RS-232C communication is available without setting the DIP Switch separately



Confirm Connection

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

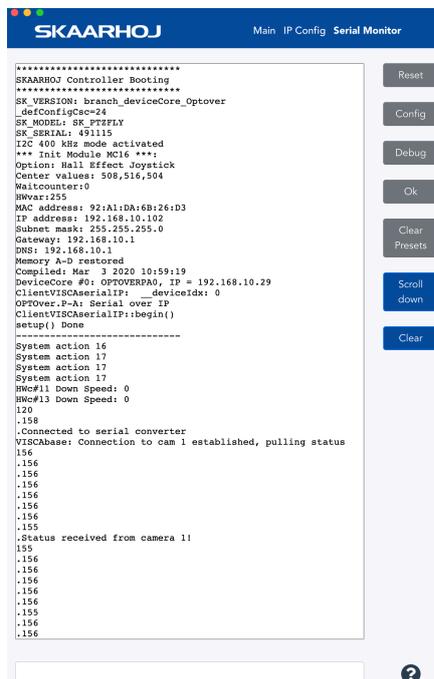
When the Serial Monitor reports:

Connected to serial converter

VISCAbase: Connection to cam 1 establish, pulling status

Status received from camera 1!

connection to the Serial Converter and the camera have been established.



Device Configurations

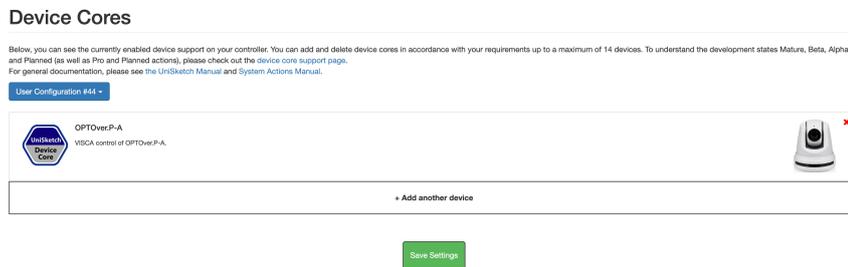
Device configuration options exist:

- Index 0: **VISCA over IP/Serial**
 - If "0" = VISCA over TCP (default)
 - If "1" = VISCA over Serial
 - If "2" = VISCA over IP

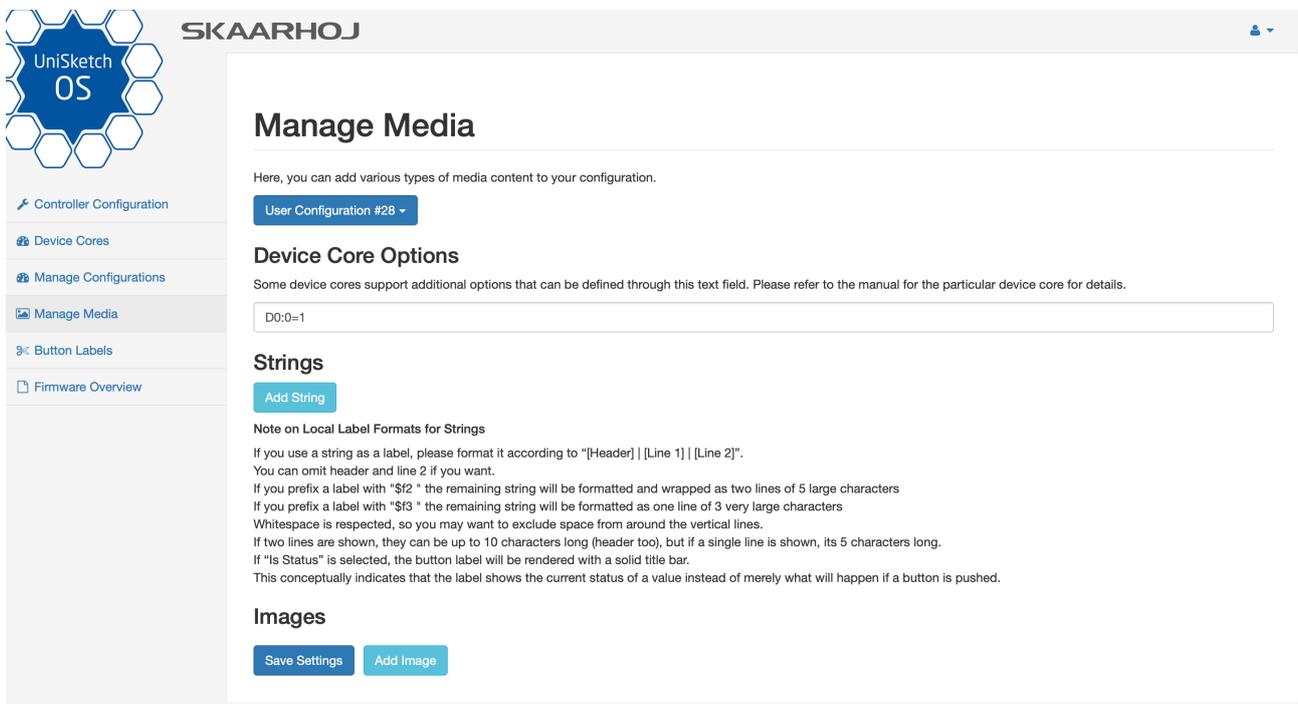
Example I:

Enabling "VISCA over IP/Serial" 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 OPTOver.P-A device core is the first like below:



Then setting the "Device Configuration Option" 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

✓
OPTOver.P-A: Pan
OPTOver.P-A: Tilt
OPTOver.P-A: Pan/Tilt
OPTOver.P-A: Zoom
OPTOver.P-A: Zoom (Binary)
OPTOver.P-A: Focus
OPTOver.P-A: Focus (Binary)
OPTOver.P-A: Focus One Push
OPTOver.P-A: PT Limit (Planned)
OPTOver.P-A: Focus Settings
OPTOver.P-A: Zoom Settings
OPTOver.P-A: Exposure Mode
OPTOver.P-A: Iris
OPTOver.P-A: Shutter
OPTOver.P-A: Gain
OPTOver.P-A: AE Speed
OPTOver.P-A: Ex-Comp. Enable
OPTOver.P-A: Ex-Comp. Level
OPTOver.P-A: AE Comp
OPTOver.P-A: Gain Limit
OPTOver.P-A: White Balance
OPTOver.P-A: WB One Push
OPTOver.P-A: WB R/B Gain
OPTOver.P-A: Matrix Color
OPTOver.P-A: Chroma Suppress
OPTOver.P-A: Aperture Gain
OPTOver.P-A: Noise Reduction
OPTOver.P-A: Gamma
OPTOver.P-A: Preset
OPTOver.P-A: Preset Drive
OPTOver.P-A: System
OPTOver.P-A: PTZ Cruise Control
OPTOver.P-A: PTZ Trace
OPTOver.P-A: Speed Limit
OPTOver.P-A: Auto Shift level
OPTOver.P-A: Camera Select