

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.

parameter	
IP type:	Static IP <input checked="" type="radio"/>
Static IP:	192 . 168 . 10 . 29
Submask:	255 . 255 . 255 . 0
Gateway:	192 . 168 . 10 . 1
DNS Server:	208 . 67 . 222 . 222

Help

- IP type: StaticIP or DHCP
- StaticIP: Module's static ip
- Submask: 255.255.255.0
- Gateway: Usually router's ip address
- DNS IP: DNS gateway or Router's IP

Save Cancel

parameter	
Baud Rate:	9600 bps
Data Size:	8 bit
Parity:	None
Stop Bits:	1 bit
Local Port Number:	5000 (0~65535)
Remote Port Number:	8234 (1~65535)
Work Mode:	TCP Server <input checked="" type="radio"/>
Remote Server Addr:	192.168.10.1 [192.168.10.1]

Help

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

RESET: LINK: INDEX: Similar RFC2217:

Save Cancel

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.

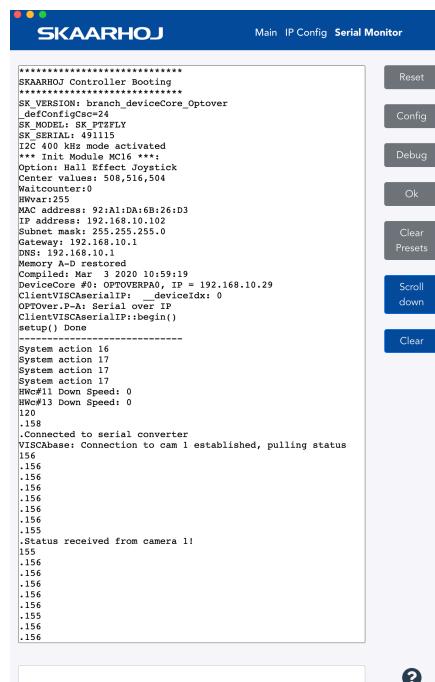
When the Serial Monitor reports:

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:

Device Cores

Below, you can see the currently enabled device support on your controller. You can add and delete device cores in accordance with your requirements up to a maximum of 14 devices. To understand the development states Mature, Beta, Alpha and Planned (as well as Pro and Planned actions), please check out the device core support page. For general documentation, please see the UniSketch Manual and System Actions Manual.

User Configuration #44 ▾

 OPTOver.P-A UniSketch Device Core	VISCA control of OPTOver.P-A.	
		+ Add another device

Save Settings

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

SKAARHOJ

 Controller Configuration
Device Cores
Manage Configurations
Manage Media
Button Labels
Firmware Overview

Manage Media

Here, you can add various types of media content to your configuration.

User Configuration #28 ▾

Device Core Options

Some device cores support additional options that can be defined through this text field. Please refer to the manual for the particular device core for details.

D0:0=1

Strings

Add String

Note on Local Label Formats for Strings
If you use a string as a label, please format it according to "[Header] | [Line 1] | [Line 2]".
You can omit header and line 2 if you want.
If you prefix a label with "\$f2" the remaining string will be formatted and wrapped as two lines of 5 large characters
If you prefix a label with "\$f3" the remaining string will be formatted as one line of 3 very large characters
Whitespace is respected, so you may want to exclude space from around the vertical lines.
If two lines are shown, they can be up to 10 characters long (header too), but if a single line is shown, its 5 characters long.
If "Is Status" is selected, the button label will be rendered with a solid title bar.
This conceptually indicates that the label shows the current status of a value instead of merely what will happen if a button is pushed.

Images

Save Settings Add Image

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