

Device: Vaddio RoboSHOT



Introduction

The Vaddio RoboSHOT series is possible to control via IP from any SKAARHOJ UniSketch OS based control surface. From the Vaddio RoboSHOT Device core it is possible to control up to 8 cameras. The integration have been done on the Vaddio:

- **RoboSHOT 12 HD-SDI**
- **RoboSHOT 30 HD-SDI**
- **RoboSHOT 12 HDBT**
- **RoboSHOT 30 HDBT**
- **RoboSHOT 20 UHD**

And is known to work on these specific models. For other models the Device Core should work as well, but specific settings such as adjusting iris might not be possible as these differs from model to model. The integration have similarities with our other PTZ Device Cores as to configuration.

When a camera is connected to a controller the serial monitor will state something like "Connected to 'RoboSHOT 30 HDBT' at 192.168.10.87".

Serial Monitor

Command input. Press enter to send.

```
*****
SKAARHOJ Controller Booting
*****
SK_VERSION: master
_skConfigCac=90
SK_MODEL: SR_PTZFLY
SK_FWVERS: 49110
EEPROM size: 16 KB
I2C 400 KHz mode activated
*** Init Module MC16 ***
Option: Hall Effect Joystick
Center values: 512,512,512
Preset 1 loaded
HNVari255
MAC address: 90:A1:D1:5A:E0:12
IP address: 192.168.10.99
Subnet mask: 255.255.255.0
Gateway: 192.168.10.1
DNS: 192.168.10.1
Memory A-B restored
Compiled: Nov 27 2018 13:33:08
DeviceCore #0: VADDIOP20, IP = 192.168.10.85
setup() Done
-----
System action 16
System action 17
Trying to connect to Vaddio camera at 192.168.10.85
Trying to connect to Vaddio camera at 192.168.10.86
Trying to connect to Vaddio camera at 192.168.10.87
Trying to connect to Vaddio camera at 192.168.10.88
Trying to connect to Vaddio camera at 192.168.10.89
System action 18
System action 17
HNC#11 Down Speed: 0
HNC#13 Down Speed: 0
Connected to 'RoboSHOT 30 HDBT' at 192.168.10.87
Connected to 'RoboSHOT 12 HD-SDI' at 192.168.10.88
116
.Connected to 'RoboSHOT 30 HD-SDI' at 192.168.10.89
119
.Connected to 'RoboSHOT 20 UHD' at 192.168.10.86
135
.116
.137
.Connected to 'RoboSHOT 12 HDBT' at 192.168.10.85
126
```

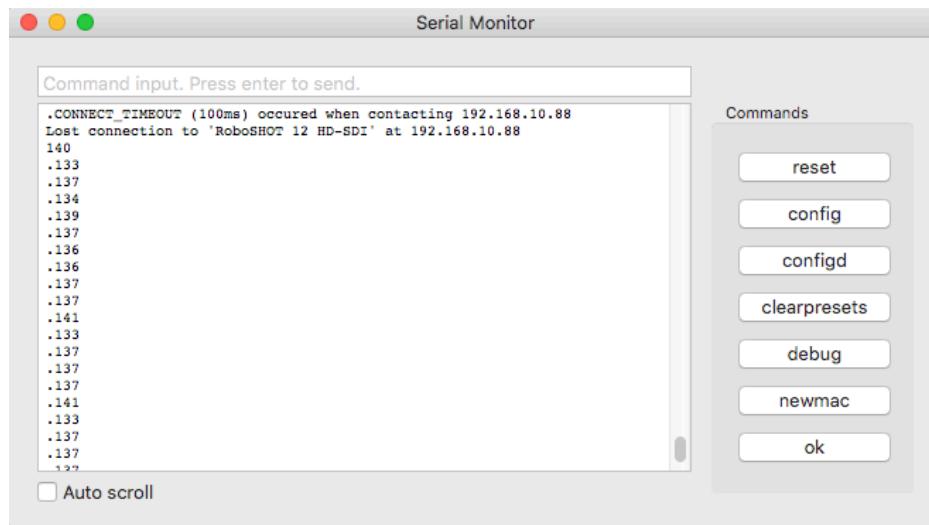
Auto scroll

SKAARHOJ DEVICE CORES

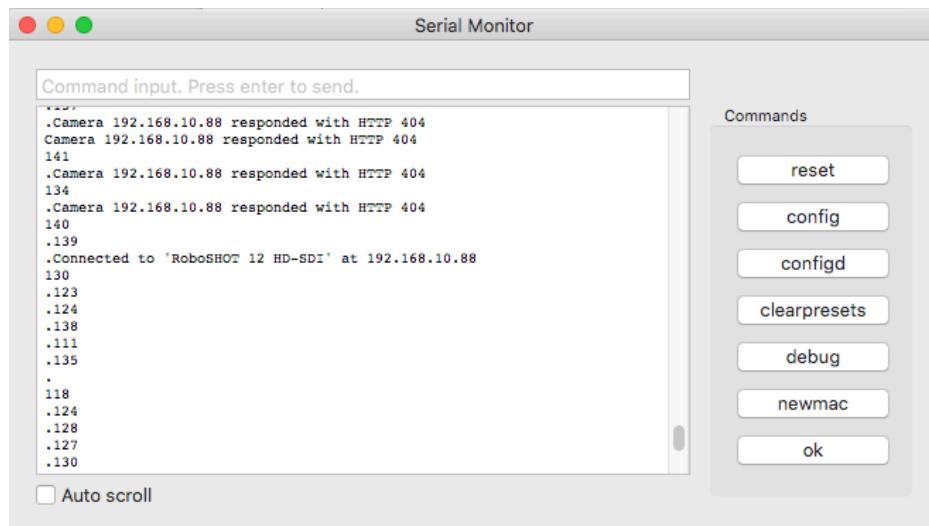
If a camera is disconnected the serial monitor will report:

.CONNECT_TIMEOUT(100ms) occurred when contacting 192.168.10.88

Lost connection to 'RoboSHOT 12 HD-SDI' at 192.168.10.88



If the camera is connected again the serial monitor will state this as well:



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This is a overview of the actions implemented in the Device Core

- Vaddio RoboSHOT 30 HD-SDI: Pan
- Vaddio RoboSHOT 30 HD-SDI: Tilt
- Vaddio RoboSHOT 30 HD-SDI: Auto Focus
- Vaddio RoboSHOT 30 HD-SDI: Focus
- Vaddio RoboSHOT 30 HD-SDI: Auto Iris
- Vaddio RoboSHOT 30 HD-SDI: Iris
- Vaddio RoboSHOT 30 HD-SDI: Sensor Gain
- Vaddio RoboSHOT 30 HD-SDI: Auto WB
- Vaddio RoboSHOT 30 HD-SDI: Gain
- Vaddio RoboSHOT 30 HD-SDI: Detail
- Vaddio RoboSHOT 30 HD-SDI: Chroma
- Vaddio RoboSHOT 30 HD-SDI: Gamma
- Vaddio RoboSHOT 30 HD-SDI: Set Tally
- Vaddio RoboSHOT 30 HD-SDI: Wide Dynamic Range
- Vaddio RoboSHOT 30 HD-SDI: Backlight Compensation
- Vaddio RoboSHOT 30 HD-SDI: Audio Mute
- Vaddio RoboSHOT 30 HD-SDI: Standby
- Vaddio RoboSHOT 30 HD-SDI: Speed Limit
- Vaddio RoboSHOT 30 HD-SDI: Camera Select

Some parameters are locked depending on modes of the camera. This is indicated by a small symbol on the display. This is illustrated below with the "Iris" and "Gain" parameter when "Auto Iris" os on.



You can experience that feedback from the camera is delayed when adjusting a parameter. This can for instance be observed with the "Camera Standby" function where the function can shift between "On" and "Off" when you have adjusted the state. This is due to the processing time from when the command is sent from the panel to when the controller receives a update from the camera.

