

Device: Vaddio RoboSHOT



Introduction

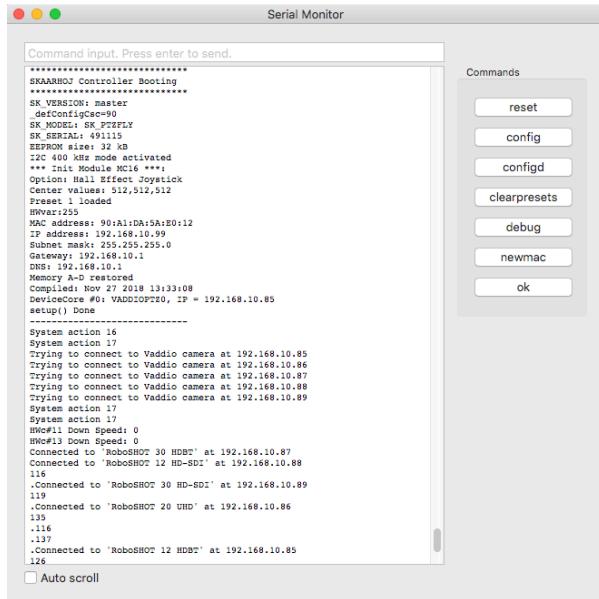
The Vaddio RoboSHOT series is possible to control via IP from any SKAARHOJ UniSketch OS based control surface. From the Vaddio RoboSHOT Device core it is possible to control up to 8 cameras. The integration have been done on the Vaddio:

- **RoboSHOT 12 HD-SDI**
- **RoboSHOT 12 HDMI**
- **RoboSHOT 30 HD-SDI**
- **RoboSHOT 30 HDMI**
- **RoboSHOT 12 HDBT**
- **RoboSHOT 30 HDBT**
- **RoboSHOT 20 UHD**
- **RoboSHOT 40 UHD**
- **RoboSHOT 30E NDI**

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.

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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".



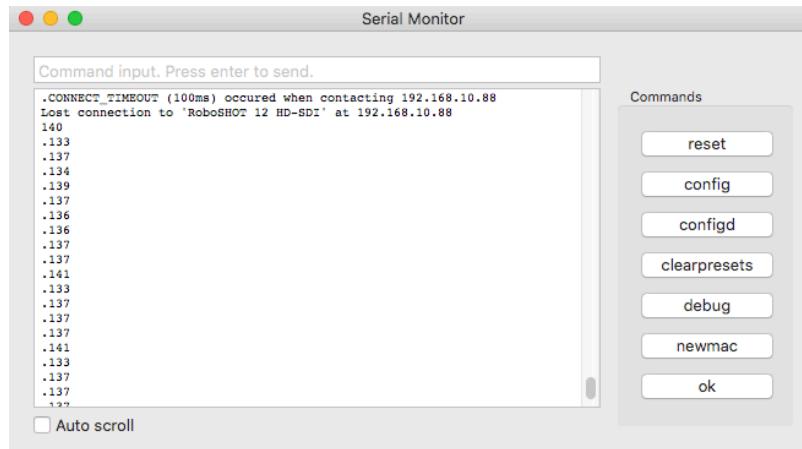
The screenshot shows the 'Serial Monitor' application window. The left pane displays a log of messages from the device. The log includes startup information, configuration details, and a series of 'Trying to connect to Vaddio camera' messages followed by successful connections to various cameras (Vaddio, RoboSHOT 30 HDBT, RoboSHOT 12 HD-SDI, RoboSHOT 30 HD-SDI, RoboSHOT 20 WHD, RoboSHOT 12 HDSDI) at IP addresses ranging from 192.168.10.86 to 192.168.10.89. The right pane contains a 'Commands' section with buttons for reset, config, configd, clearpresets, debug, newmac, and ok.

```
*****
SKAARHOJ Controller Booting
*****
SK VERSION: master
defconfigCse=90
SK MODEL: SK_PZ2FLY
SK SERIAL: 4900000000000000
SERIAL_PULLUP: 33 kΩ
I2C 400 KHz mode activated
*** Init Module MC16 ***
Option: Hall Effect Joystick
Gyro ID: 512,512,512
Preset 1 loaded
HWvar=255
MAC address: 90:A1:D4:5A: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-D restored
Config file: 27.08.2018 13:33:08
Devicecore #0: VADDIOOPT20, IP = 192.168.10.85
setup() Done
*****
System action 17
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 17
System action 17
System action 17
HWvar Down Speed: 0
HWvar3 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 WHD' at 192.168.10.86
135
116
117
.Connected to 'RoboSHOT 12 HDSDI' at 192.168.10.85
126
 Auto scroll
```

If a camera is disconnected the serial monitor will report:

.CONNECT_TIMEOUT(100ms) occurred when contacting 192.168.10.88

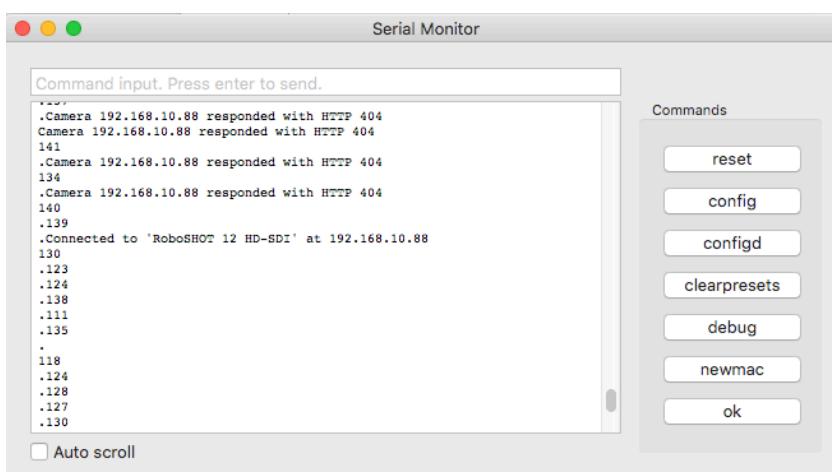
Lost connection to 'RoboSHOT 12 HD-SDI' at 192.168.10.88



The screenshot shows the 'Serial Monitor' application window. The left pane displays a log of messages. It starts with a connection timeout message for a camera at 192.168.10.88, followed by a 'Lost connection to 'RoboSHOT 12 HD-SDI'' message. Below these, there is a series of repeated messages starting with '.133', likely indicating a reconnection attempt or a loop in the log. The right pane contains a 'Commands' section with buttons for reset, config, configd, clearpresets, debug, newmac, and ok.

```
.CONNECT_TIMEOUT (100ms) occurred when contacting 192.168.10.88
Lost connection to 'RoboSHOT 12 HD-SDI' at 192.168.10.88
140
.133
.137
.134
.139
.137
.136
.136
.137
.137
.141
.133
.137
.137
.137
.137
.137
.141
.133
.137
.137
.137
.137
.137
.137
.137
.137
 Auto scroll
```

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

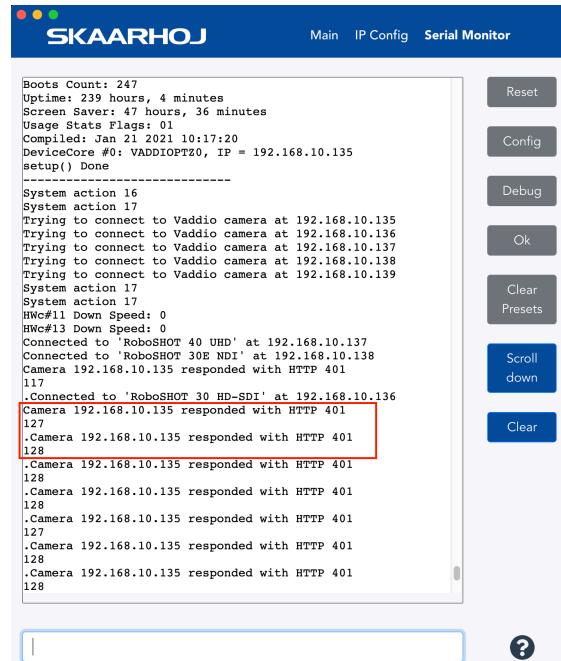


The screenshot shows the 'Serial Monitor' application window. The left pane displays a log of messages. It includes a message about a camera responding with HTTP 404, followed by a series of messages starting with '.Connected to 'RoboSHOT 12 HD-SDI'' at 192.168.10.88, which likely represent a reconnection. The right pane contains a 'Commands' section with buttons for reset, config, configd, clearpresets, debug, newmac, and ok.

```
Camera 192.168.10.88 responded with HTTP 404
Camera 192.168.10.88 responded with HTTP 404
141
.Camera 192.168.10.88 responded with HTTP 404
134
.Camera 192.168.10.88 responded with HTTP 404
140
.139
.Connected to 'RoboSHOT 12 HD-SDI' at 192.168.10.88
130
.123
.124
.138
.111
.135
.
118
.124
.128
.127
.130
 Auto scroll
```

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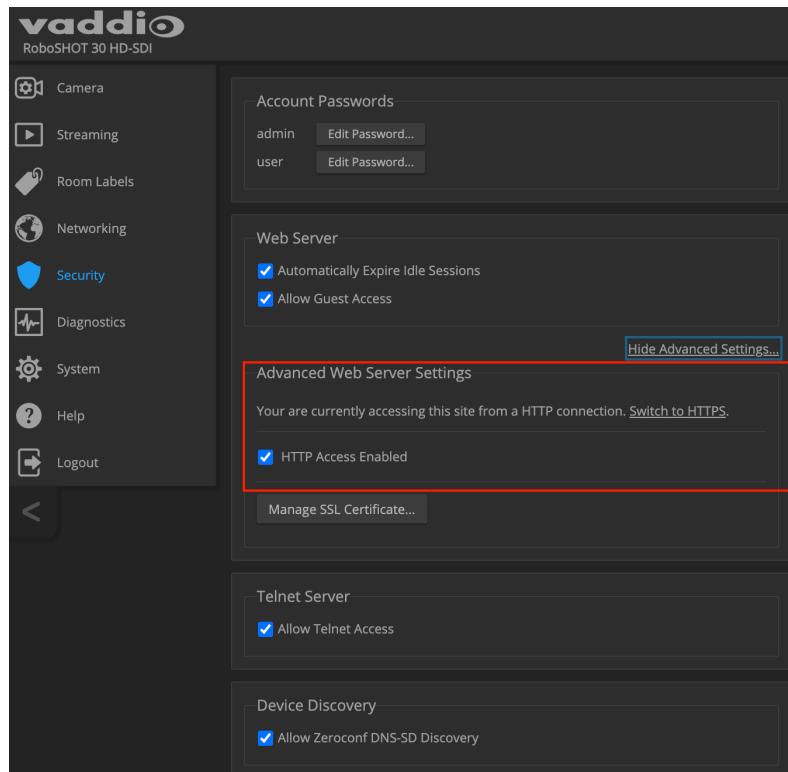
If the serial monitor reports .Camera xxx.xxx.xxx.xxx responded with HTTP 401:



This is an access denied error and can occurred for one of two reasons.

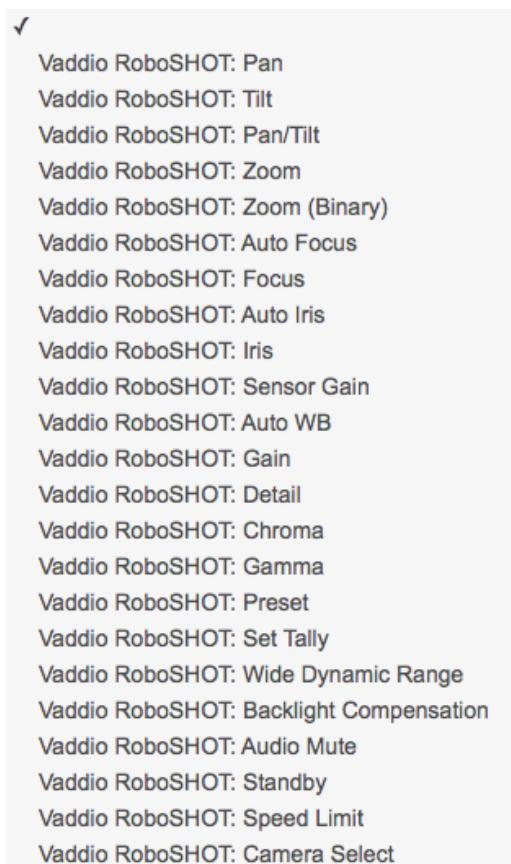
Our controller is trying to connect to the camera using the default admin login and password. If you have changed either the name or password, the controller will not connect. Please try resetting the login and password to: admin/password

By default the camera is set to accept HTTPS connection and not HTTP connection. You can enable HTTP access via the camera's web interface under Security/Advanced Web Server Settings.



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



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" is 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.

