Device: PTZOptics PT Cameras

Update October 2019

PTZOptics have updated firmwares with better support for block inquiry commands. Once we have updated our Device Core the below limitations will to a large extend be invalid. The PTZOptics Device Core is designed to control the PT12X, PT20X and th PT30X cameras. The support is currently being developed for PTZOptics Firmwares:

12x : SOC ver 6.2.73
20x : SOC ver 6.2.71
30x : SOC ver 6.2.73

The Device Core is not released yet but can be accessed for now (subject to change) via the branch:

ptzoptics_feature

Branch in Mac OS Firmware Updater: shift-ctrl-cmd-B
Branch in PC Firmware Updater: ctrl-B

By default only the Mac OS Firmware Updater have Branch selection. For Windows please use the firmware version you can get here:
https://drive.google.com/file/d/1YHCtA6XLCzo9BEkbgqOGaxO0riy60jCY/view?usp=sharing

Introduction

Support for PTZOptics cameras is fairly extensive. It includes almost everything possible with VISCA commands over serial and/or IP., including all painting parameters for full operators control of the camera. Support is provided over IP as well as Serial (see Generic VISCA manual for Serial cabling instructions).

The PTZOptics cameras do not support block inquiry commands over IP, so not all current settings on the camera will be transmitted back to our controllers. Examples

- When our controller connects to the camera some settings will not be in sync with the actual state of the camera. The shutter speed on our controller could reflect one setting, while the actual shutter speed on the camera could be different until the shutter speed has in fact been set from our controller
- If multiple SKAARHOJ controllers are connected to the same camera they will not be in sync
- If changes are made in the OSD these will not be reported back to the SKAARHOJ controller

These are limitations of the VISCA over IP integration on the PTZOptics camera itself. If control is with Serial block inquiry commands are supported.

Actions

The implementation inherits functionality from the Generic VISCA device core, and therefore as a general introduction to the actions, please see the Generic VISCA device core documentation.

Device Configurations

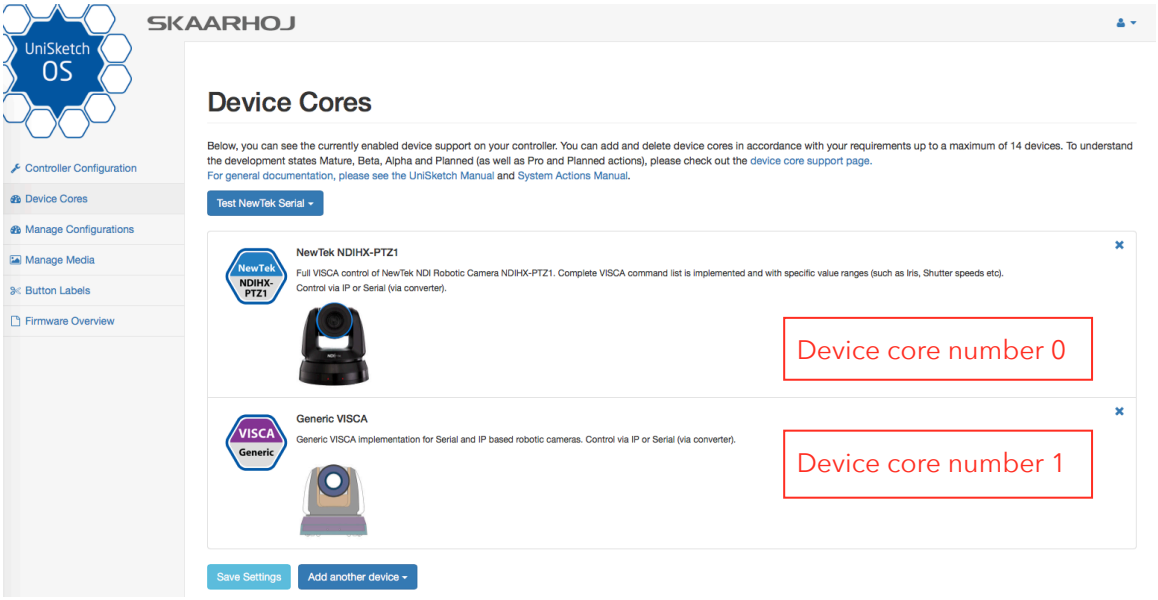
Device configuration options exist:

- Index 0: **VISCA over IP/Serial**
  - If "2" = VISCA over Serial

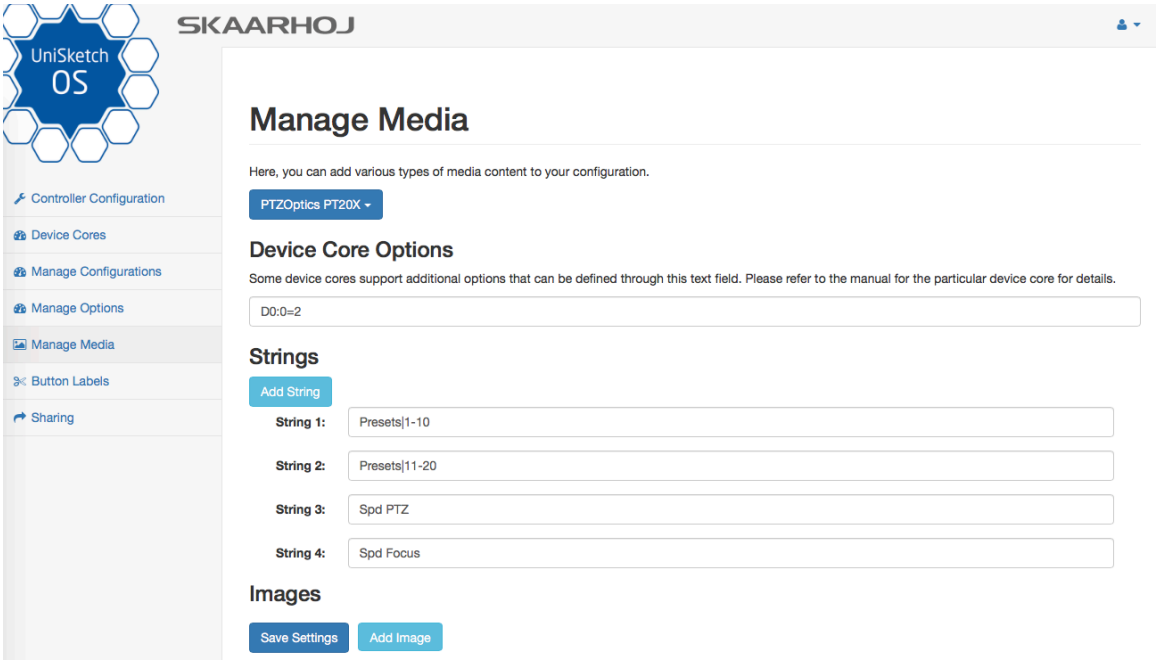
Example:

Enabling VISCA over serial could look like this device configuration code: "D0:0=2" 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 PTZOptics PT20X Device Core is the first like below (here represented with NewTek Device Core)



Setting VISCA over serial would be set by this configuration under "Manage Media" on the configuration page for your controller. Access this by pressing "Online Configuration" in the Firmware Application. Remember to save on the configuration page *and* press "Check for updates" in the Firmware Application.



To confirm that a device configuration is in fact detected by the controller, please check it out on the serial monitor where it will be mentioned:

```
Memory A-D restored
Compiled: Nov  9 2018 15:39:29
DeviceCore #0: PTZOPTICS0, IP = 192.168.10.215
PTZOPTICS: Serial over IP
```