

## Device: PTZOptics PTx Cameras



### Update October 2019

PTZOptics have updated firmwares with better support for block inquiry commands. 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

We are in contact with PTZOptics with regards to updating their firmwares to resolve some irregularities with VISCA over IP integration.

Earlier versions of our integration did not support block inquiry commands over IP, so not all current settings on the camera would be transmitted back to our controllers. This have however been resolved now. This also means that if you have two controllers connected to the same camera, changes made on controller #1 will be reflected on controller #2. There also was an issue with iris offset which have been resolved as well, and VAR is possible to set as a white balance parameter together with direct Color Temperature Control.

### Introduction

A large number of parameters can be controlled on the PTZOptics cameras. Control is via VISCA over IP (and not NDI).

Please see the "PTZ Manual" at <https://www.skaarhoj.com/support/manuals/> to learn more about PTZ control in general from SKAARHOJ controllers and in particular network recommendations.

In this manual it is worth noticing that one should not add *additional* Device Cores to control multiple cameras. This is possible from the same Device Core but proper steps should be ensured (consecutive IP addresses on the cameras) for a good user experience.

### Number of Cameras possible to control

Please notice from the PTZOptics PTx Device Core it is possible to control up 7 cameras. In general this is the limit for our VISCA over IP Device Cores and our integration have not been tested above 7 cameras. If you want to control more than 7 cameras you will need to add an additional Device Core and configure the controller accordingly. None of our default configuration utilities 2 x PTZOptics PTx Device Cores. As we have never tested with more than 7 cameras, we do not know how well performance and stability will be in such a configuration setup. We recommend only having 1 x PTZOptics PTx Device Core installed per controller.

## Device Configurations

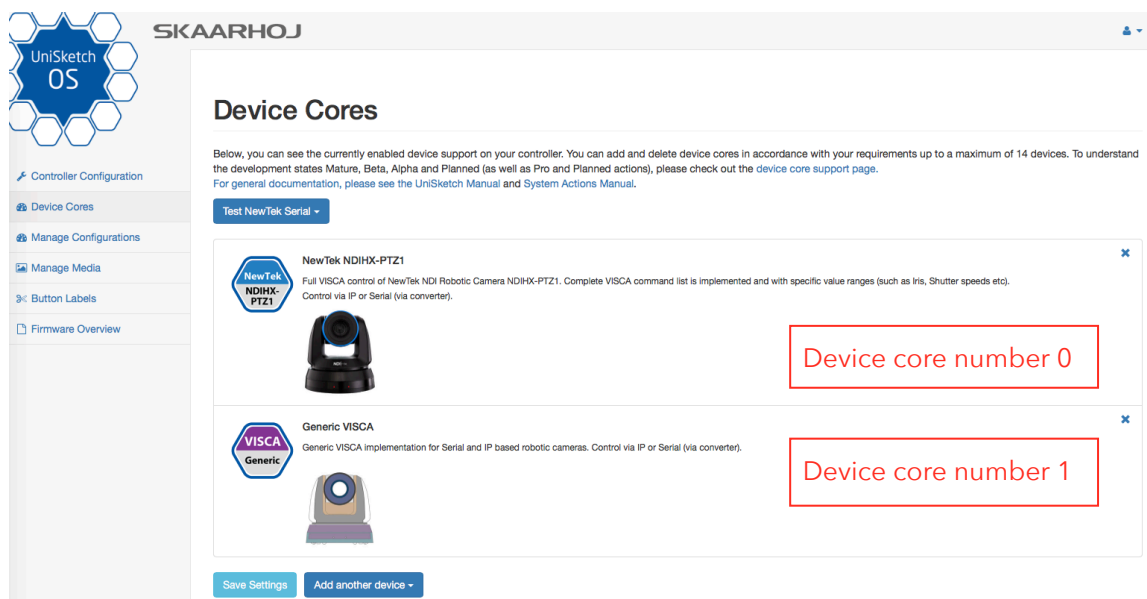
Device configuration options exist:

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

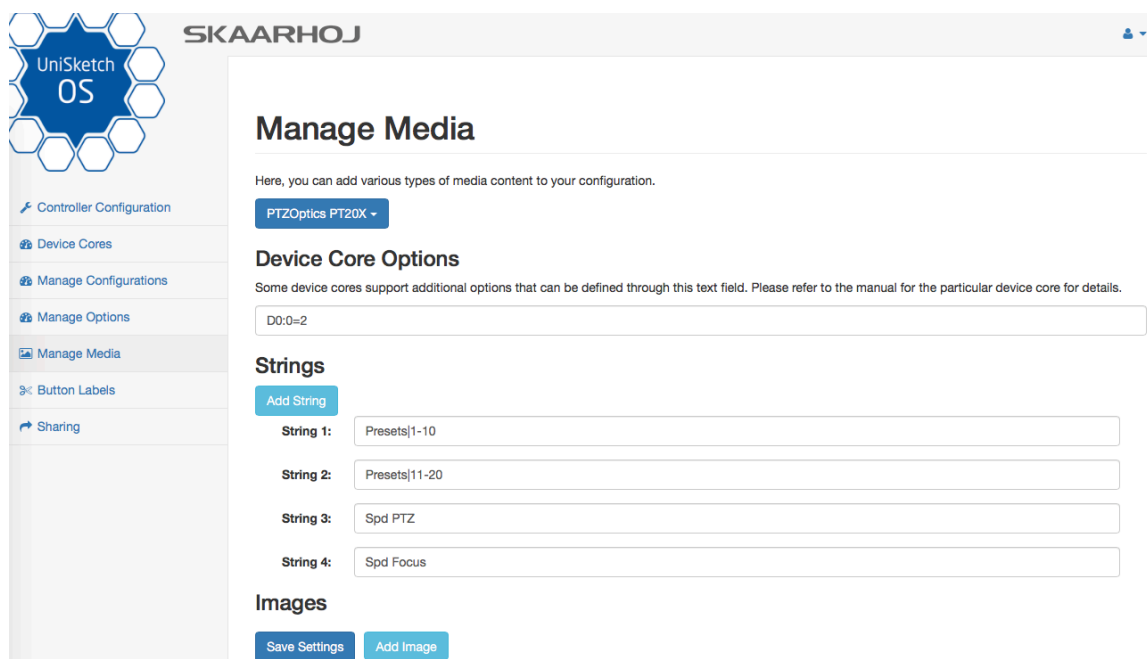
Example:

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 PTx 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
```

## Actions

An excerpt of the actions in the Device Core

```
PTZOptics PTx: Pan
PTZOptics PTx: Tilt
PTZOptics PTx: Pan/Tilt
PTZOptics PTx: Zoom
PTZOptics PTx: Zoom (Binary)
PTZOptics PTx: Focus
PTZOptics PTx: Focus (Binary)
PTZOptics PTx: PT Limit (Planned)
PTZOptics PTx: Focus Settings
PTZOptics PTx: AF Sensitivity
PTZOptics PTx: AF Zone
PTZOptics PTx: Exposure Mode
PTZOptics PTx: Iris
PTZOptics PTx: Shutter
PTZOptics PTx: Gain
PTZOptics PTx: Ex-Comp. Enable
PTZOptics PTx: Ex-Comp. Level
PTZOptics PTx: AE Comp
PTZOptics PTx: Gain Limit
PTZOptics PTx: Bright
PTZOptics PTx: Flicker Mode
PTZOptics PTx: White Balance
PTZOptics PTx: WB One Push
PTZOptics PTx: WB Speed
PTZOptics PTx: WB R/B Gain
PTZOptics PTx: WB ColorTemp
PTZOptics PTx: Tone adjustments
PTZOptics PTx: Saturation
PTZOptics PTx: Sharpness Auto
PTZOptics PTx: Sharpness
PTZOptics PTx: NR 2D Auto
PTZOptics PTx: NR 2D
PTZOptics PTx: NR 3D
PTZOptics PTx: Picture Effect
PTZOptics PTx: Preset
PTZOptics PTx: System
PTZOptics PTx: Factory Reset
PTZOptics PTx: PTZ Cruise Control
PTZOptics PTx: PTZ Trace
PTZOptics PTx: Speed Limit
PTZOptics PTx: Camera Select
```