

## 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 the 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 has 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 has 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 to 7 cameras. In general this is the limit for our VISCA over IP Device Cores and our integration has 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 support 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 PT20X Device Core is the first like below (here represented with NewTek Device Core)

**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](#).

**NewTek NDIHX-PTZ1**  
Full VISCA control of NewTek NDI Robotic Camera NDIHX-PTZ1. Complete VISCA command list is implemented and with specific value ranges (such as Iris, Shutter speeds etc). Control via IP or Serial (via converter).

**Generic VISCA**  
Generic VISCA implementation for Serial and IP based robotic cameras. Control via IP or Serial (via converter).

Device core number 0

Device core number 1

Save Settings Add another device

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.

**Manage Media**

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

PTZOptics PT20X

**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=2

**Strings**

Add String

String 1: Presets|1-10

String 2: Presets|11-20

String 3: Spd PTZ

String 4: Spd Focus

**Images**

Save Settings Add Image

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
```