SKAARHOJ DEVICE CORES

Device: PTZOptics PTx Cameras



Introduction

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

Please see the "PTZ Manual" at <u>https://www.skaarhoj.com/support/manuals/</u> 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.

Update July 2020

The PTZOptics Device Core is designed to control the PT12X, PT20X and the PT30X PTZ and ZCam cameras. The support is currently being developed for PTZOptics Firmwares:

PT12x : SOC ver 6.2.83 PT20x : SOC ver 6.2.71 PT30x : SOC ver 6.2.73

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.

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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)

UniSketch	(AARHOJ		4.4
	Device Cores		
Controller Configuration	Below, you can see the currently enabled device support on your controller. You can add and delete device cores in acc the development states Mature, Beta, Alpha and Planned (as well as Pro and Planned actions), please check out the dev For general documentation, please see the UniSketch Manual and System Actions Manual.		ierstand
B Device Cores	Test NewTek Serial -		
Manage Configurations			×
Manage Media	NewTek NDIHX-PT21 NDIHX- PDI VISCA control of NewTek NDI Robotic Camera NDI+X-PT21. Complete VISCA command list is implemented and Control via IP or Senai (via converter).	with specific value ranges (such as Iris, Shutter speeds etc).	
Tirmware Overview		Device core number 0	
		Device core number o	
	Generic VISCA		×
	Generic VISCA implementation for Serial and IP based robotic cameras. Control via IP or Serial (via converter).	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.

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ViniSketch OS		je Media	
Controller Configuration		d various types of media content to your configuration.	
	PTZOptics PT2	0X +	
Device Cores	Device Co	pre Options	
Manage Configurations	Some device cor	es support additional options that can be defined through this text field. Please refer to the manual for the particular device core for detail	s.
Manage Options	D0:0=2		
Manage Media	Strings		
≫ Button Labels	Add String		
A Sharing	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
```

Actions

An excerpt of the actions in the Device Core

Please note that not all actions are supported by the PTZOptics Zcam models.

The actions in RED are not supported by the Zcam models.

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		