

# Device: NewTek PTZUHD NDI



## Introduction

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

The implementation is done on NewTek PTZUHD NDI Firmware version:  
VSP106\_VSR107\_VNW109\_VNX1012

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 NewTek PTZUHD 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 NewTek PTZUHD 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 NewTek PTZUHD Device Core installed per controller.

## Device Configurations

Device configuration options exist:

- Index 0: **VISCA over IP/Serial**
  - If "1" = VISCA over Serial
- Index 1: **Video Standard**
  - If "0" = Reserved
  - If "1" = Pal mode
  - If "2" = NTSC mode

Example:

Enabling "Video Standard" to NTSC mode could look like this device configuration code: "D0:1=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.

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: Aug  8 2018 16:56:55
DeviceCore #0: NEWTEKNDIHXPZ0, IP = 192.168.10.213
Setting NTSC mode for 'NEWTEKNDIHXPZ' device core
setup() Done
-----
System action 16
 Auto scroll
```

Example: If the NewTek device core is the first like below:

### 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 -



**NewTek**  
NDIHX-PTZ1

**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).



Save Settings
Add another device -

Then setting the "Video Standard" would be set by this configuration under "Manage Media" on your configuration page for your controller on [cores.skaarhoj.com](http://cores.skaarhoj.com)

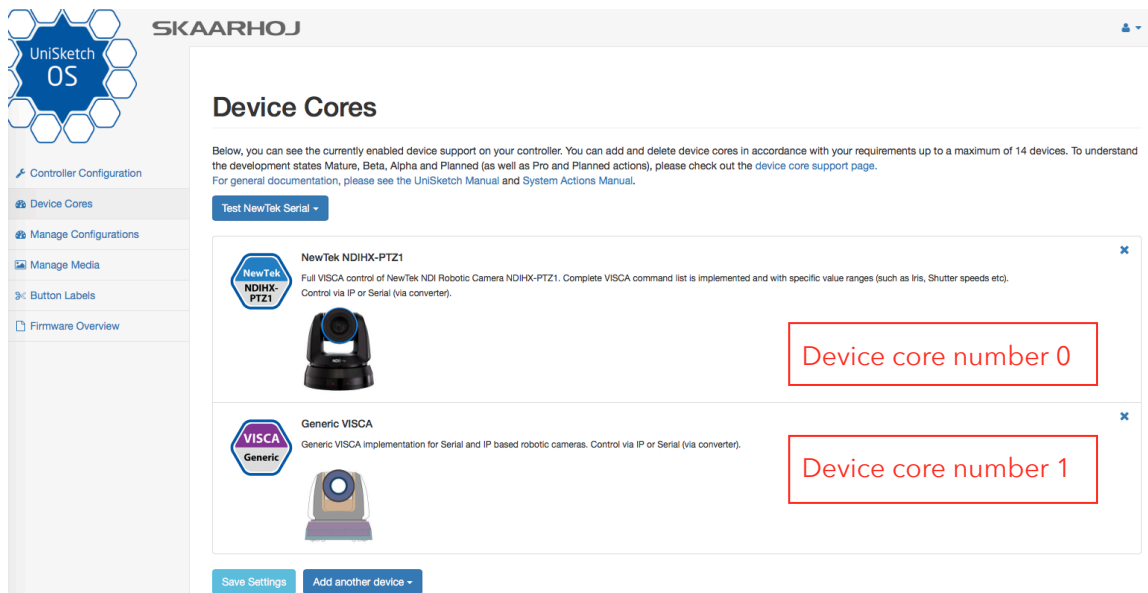
## Device Core Options

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.

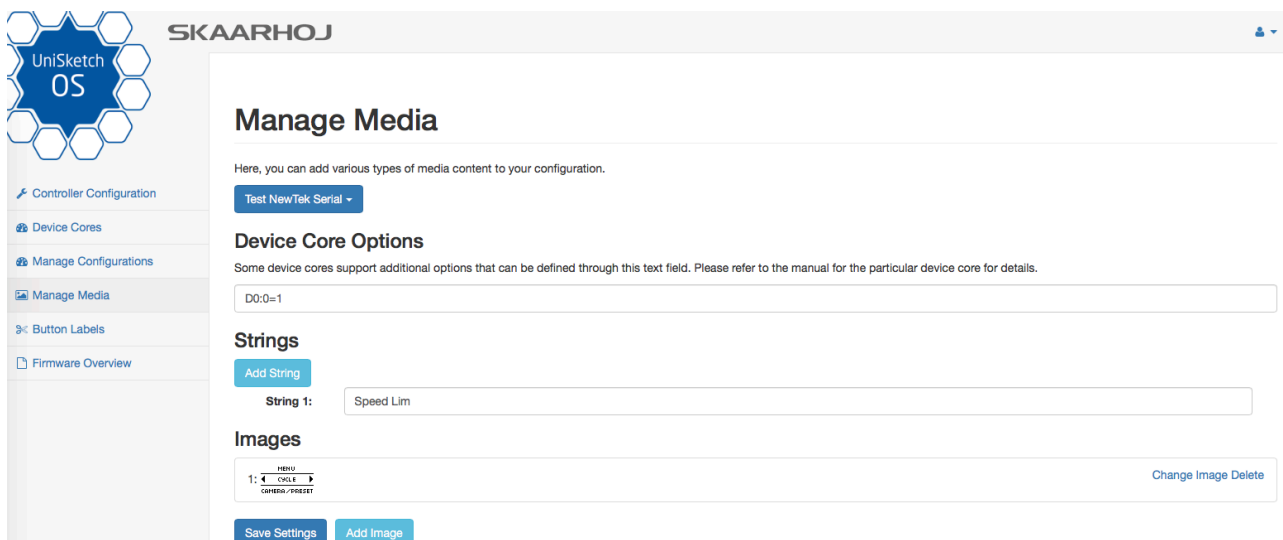
Example:

Enabling VISCA over serial could look like this device configuration code: "D0:0=1" 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 NewTek NDIHX-PTZ1 Device Core is the first like below:

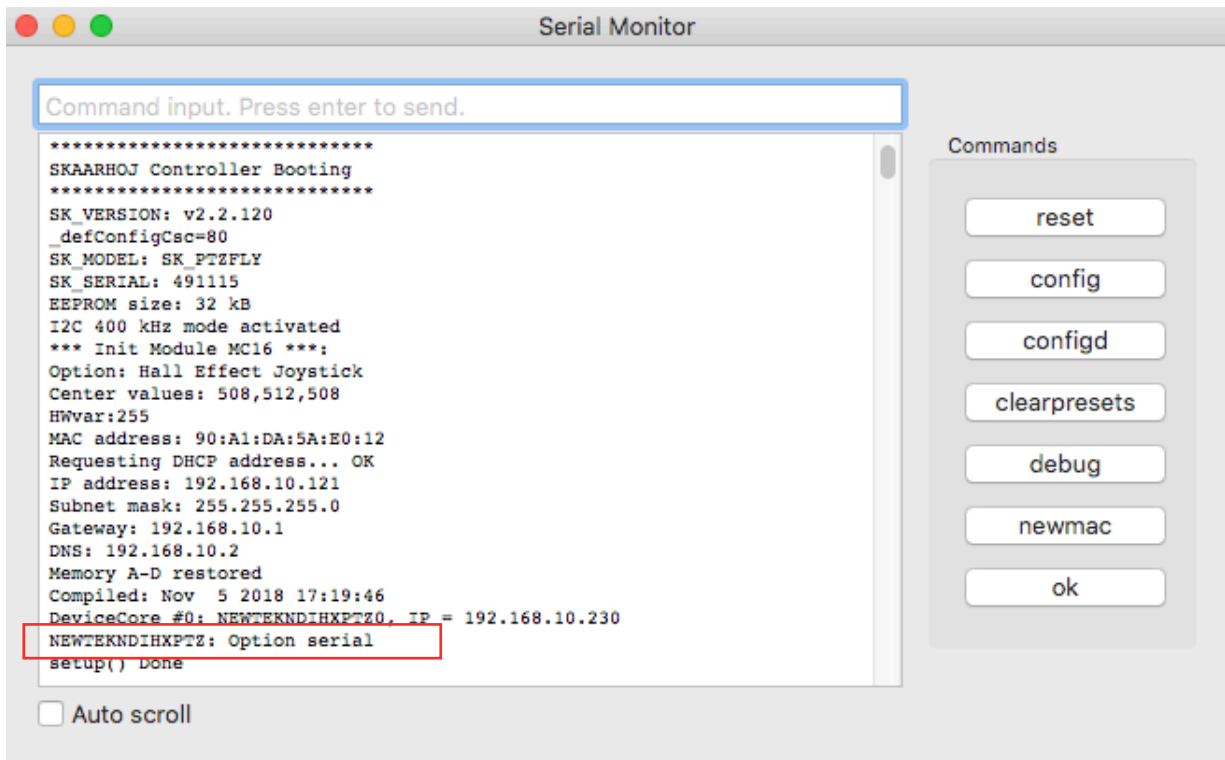


Setting VISCA over serial would be set by this configuration under "Manage Media" on the configuration page for your controller. Access this by pressing "Online Configuration" in the Firmware Application. Remember to save on the configuration page *and* press "Check for updates" in the Firmware Application.



## SKAARHOJ DEVICE CORES

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:



## Actions

An excerpt of the actions in the Device Core

NewTek PTZ-UHD-NDI: Pan	NewTek PTZ-UHD-NDI: Iris Limit (Max.)	NewTek PTZ-UHD-NDI: Speed Limit
NewTek PTZ-UHD-NDI: Tilt	NewTek PTZ-UHD-NDI: White Balance	NewTek PTZ-UHD-NDI: Auto Shift level
NewTek PTZ-UHD-NDI: Pan/Tilt	NewTek PTZ-UHD-NDI: WB One Push	NewTek PTZ-UHD-NDI: Camera Select
NewTek PTZ-UHD-NDI: Zoom	NewTek PTZ-UHD-NDI: WB R/B Gain	
NewTek PTZ-UHD-NDI: Zoom (Binary)	NewTek PTZ-UHD-NDI: Hue	
NewTek PTZ-UHD-NDI: Focus	NewTek PTZ-UHD-NDI: Saturation	
NewTek PTZ-UHD-NDI: Focus (Binary)	NewTek PTZ-UHD-NDI: Brightness	
NewTek PTZ-UHD-NDI: Focus One Push	NewTek PTZ-UHD-NDI: Sharpness	
NewTek PTZ-UHD-NDI: Focus Settings	NewTek PTZ-UHD-NDI: Noise Reduction	
NewTek PTZ-UHD-NDI: Exposure Mode	NewTek PTZ-UHD-NDI: 3D Noise Reduction	
NewTek PTZ-UHD-NDI: Iris	NewTek PTZ-UHD-NDI: Gamma	
NewTek PTZ-UHD-NDI: Shutter	NewTek PTZ-UHD-NDI: Picture Effect	
NewTek PTZ-UHD-NDI: Gain	NewTek PTZ-UHD-NDI: Preset	
NewTek PTZ-UHD-NDI: Ex-Comp. Enable	NewTek PTZ-UHD-NDI: System	
NewTek PTZ-UHD-NDI: Ex-Comp. Level	NewTek PTZ-UHD-NDI: Tally Mode	
NewTek PTZ-UHD-NDI: AE Comp	NewTek PTZ-UHD-NDI: PTZ Cruise Control	
NewTek PTZ-UHD-NDI: Gain Limit	NewTek PTZ-UHD-NDI: PTZ Trace	
NewTek PTZ-UHD-NDI: Iris Limit (Min.)		