

Device: BirdDog P200



Introduction

The BirdDog P200 Device Core is still in alpha with just a limited feature set available to control. The development of the Device Core is work in progress and we collaborate with BirdDog to expand the possible features to control. At this point control is VISCA over IP.

Please notice currently the BirdDog P200 camera 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 always be reported back to the SKAARHOJ controller

The implementation is done on BirdDog P200 Firmware version: **BirdDog EYES 2.8.3.4**

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.

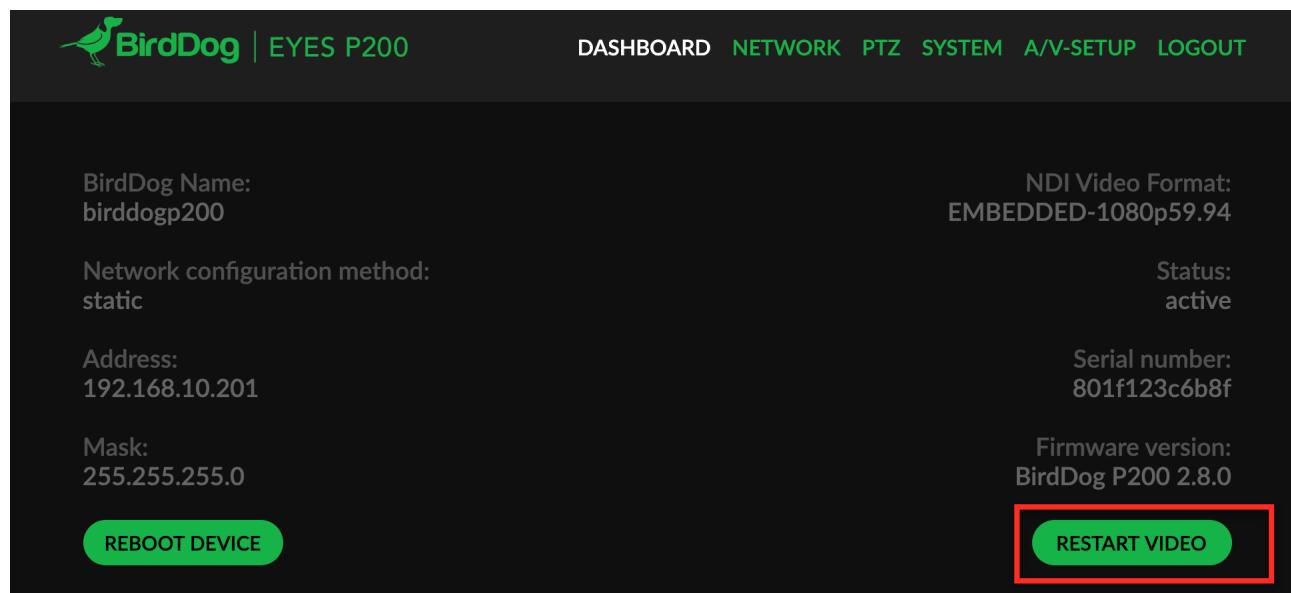
In this manual it is worth noticing that one should not add *additional* Device Cores to control multiple cameras. This is possible from the same Device Core but proper steps should be ensured (consecutive IP addresses on the cameras) for a good user experience.

Known Bugs

RESTART VIDEO

When a camera power cycles it can be necessary to "RESTART VIDEO" to regain control over the camera. If a SKAARHOJ controller loses connection to the camera during operation, it can be necessary to press "RESTART VIDEO" to regain control over the camera.

We are working on determining the root of this issue in the VISCA over IP integration in the BirdDog Camera itself.



PRESET RECALL

Recalling presets can make the camera stop responding for a few seconds.

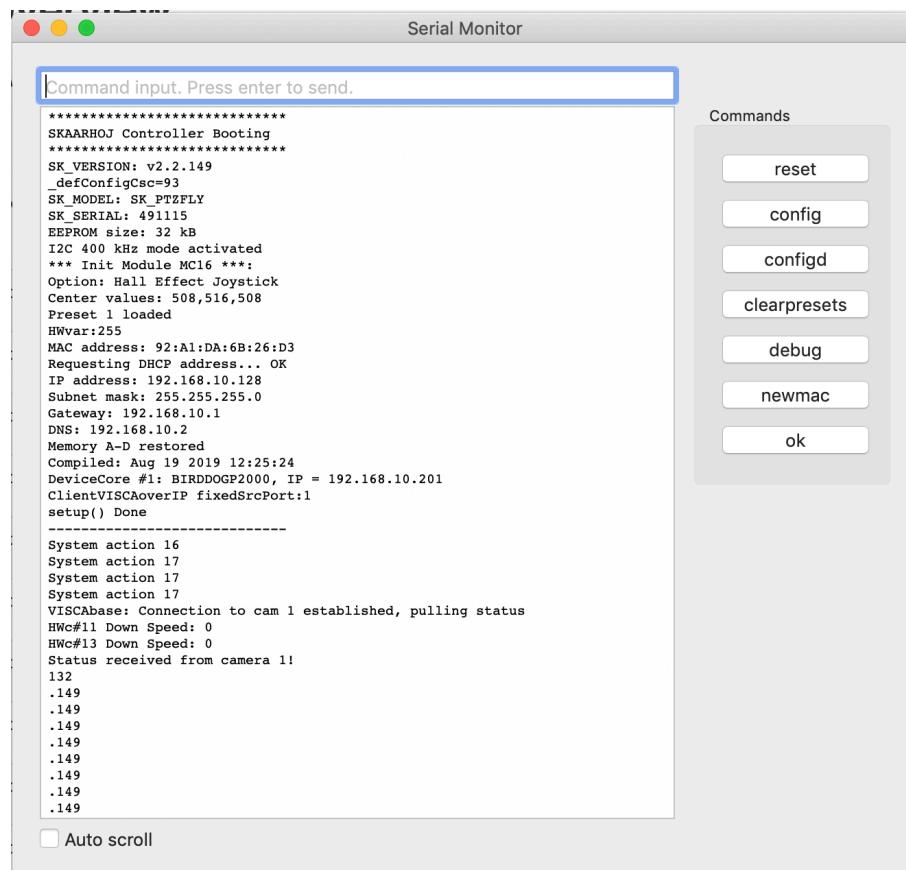
On Camera Dip Switch Settings

- 1-3 : Visca Address= off
- 4: DVI Signal= on
- 5: Empty= off
- 6: RS-232/RS-422= off
- 7: Bps= off (combined with 8 for 9600 Bps)
- 8: Bps= on (combined with 7 for 9600 Bps)



Connection

When a controller have successfully established connection to the camera the serial monitor will report "Status received from camera x!"



Device Configurations

Device configuration options exist:

- Index 0: **VISCA over IP/Serial**
 - If "1" = VISCA over Serial

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 AIDA device core is the first like below:

 AIDA PTZ-X12-IP (PTZ Camera) VISCA control of AIDA PTZ-X12-IP. VISCA command list is implemented incl. specific value ranges (such as Iris, Shutter speeds etc). Control via IP or Serial (via converter).	
Client limit: 7 Core limit: 1	
 Generic VISCA (PTZ Camera) Generic VISCA implementation for Serial and IP based robotic cameras. Control via IP or Serial (via converter). The Device Core mainly works as a development platform.	
Manuals: Device Core Manual Client limit: 7 Core limit: 1	

Then setting the "VISCA over IP/Serial" would be set by this configuration under "Manage Media" on your configuration page for your controller on 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.

D0:0=1

Device Core Details

An excerpt of the actions in the BirdDog P200 Device Core.

Items marked with **red** are not working

Items marked with **yellow** have wrong range intervals

Items marked with **blue** have details

BirdDog P200: Pan/Tilt
BirdDog P200: Zoom (Binary)
BirdDog P200: Focus (Binary)
BirdDog P200: Focus One Push
BirdDog P200: PT Slow Mode
BirdDog P200: Focus Settings
BirdDog P200: Zoom Settings
BirdDog P200: Exposure Mode
BirdDog P200: Iris
BirdDog P200: Shutter
BirdDog P200: Gain
BirdDog P200: AE Speed
BirdDog P200: Ex-Comp. Enable
BirdDog P200: Ex-Comp. Level
BirdDog P200: AE Comp
BirdDog P200: Gain Limit
BirdDog P200: Wide Dynamic Range Mode
BirdDog P200: White Balance
BirdDog P200: WB One Push
BirdDog P200: WB R/B Gain
BirdDog P200: Chroma Suppress
BirdDog P200: Noise Reduction
BirdDog P200: Gamma
BirdDog P200: Picture Effect
BirdDog P200: Preset
BirdDog P200: Preset Drive
BirdDog P200: System
BirdDog P200: Iris (Binary)
BirdDog P200: Shutter (Binary)
BirdDog P200: PTZ Cruise Control
BirdDog P200: PTZ Trace
BirdDog P200: Auto Shift level
BirdDog P200: Camera Select

Shutter: Values may differ depending on if you are using PAL or NTSC

Presets: Recalling presets may make the camera stop responding for a few seconds