

Device: Bolin VCC-7HD30S-3SMN



Introduction

A large number of parameters can be controlled on the Bolin VCC-7HD30S-3SMN. Control is via VISCA over IP (and not NDI). The Device Core is still in beta with few bugs to get sorted out.

Please notice currently the Bolin 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, and control might not be possible
- If changes are made in the OSD these will not necessarily be reported back to the SKAARHOJ controller

The implementation is done on Bolin VCC-7HD30S-3SMN Firmware version:

PELCO ID:	001
IR ID:	01
IR-RECEIVE:	ON
BAUD RATE:	9600
COMM TYPE:	232
FORMAT:	720p/50
HDMI OUT:	YUV
MODEL TYPE:	-----
SV:	V0B1100S36040AD06

SKAARHOJ DEVICE CORES

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.

Device Configurations

Device configuration options exist:

- Index 1: **Video Standard**

- If "0" = Reserved
- If "1" = Pal mode
- If "2" = NTSC mode

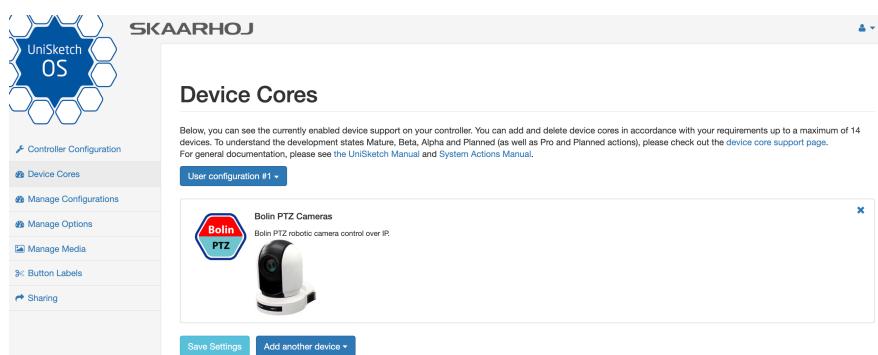
Example:

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 28 2019 12:16:59
D0[1] = 2
DeviceCore #0: BOLINO, IP = 192.168.10.200
BOLIN: Option VISCAoverIP
ClientVISCAoverIP fixedSrcPort:1
Setting NTSC mode for 'BOLIN device core
setup() Done
-----
HWc#2 Down Speed: 0
```

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



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

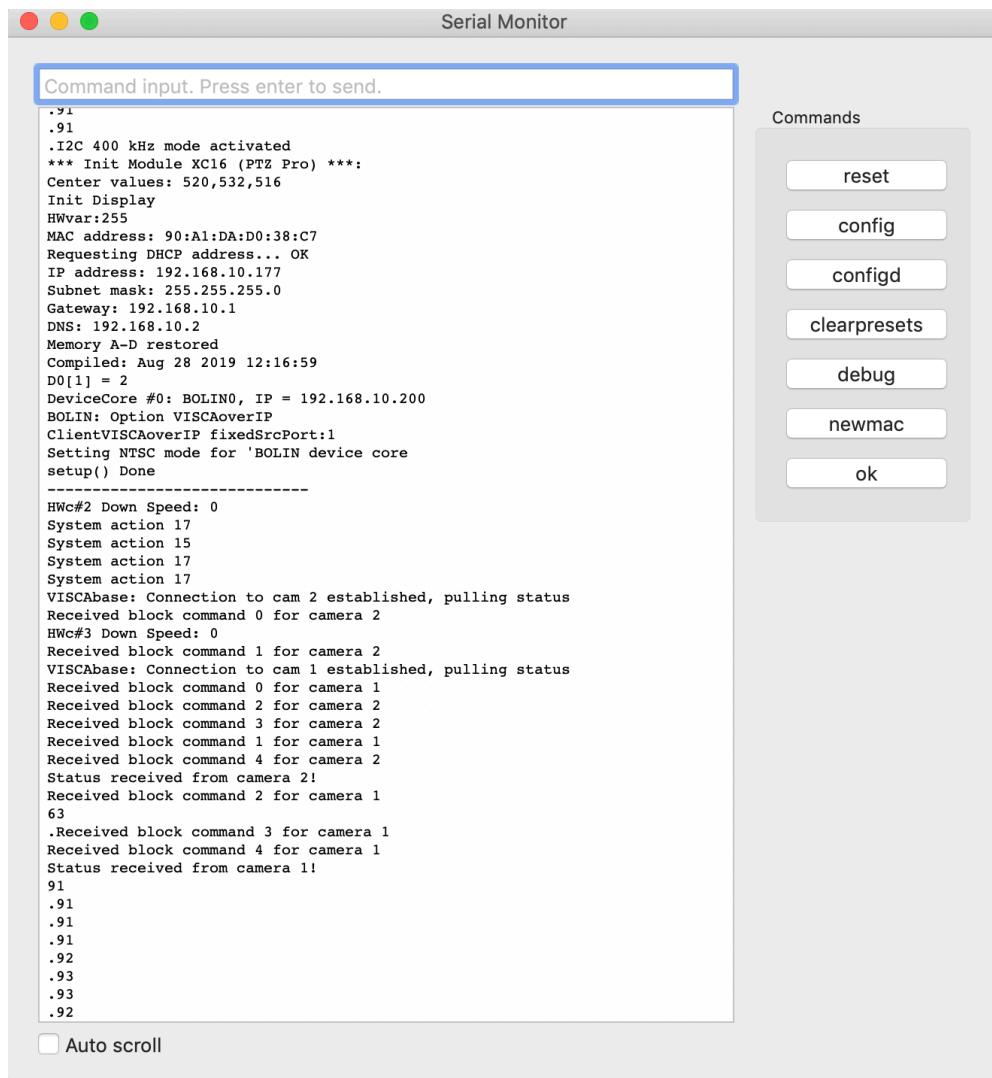
Device Core Options

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.

D0:1=2

Connection

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



This is a overview of the actions implemented in the Device Core

- Bolin VCC-7HD30S-3SMN: Pan
- Bolin VCC-7HD30S-3SMN: Tilt
- Bolin VCC-7HD30S-3SMN: Zoom
- Bolin VCC-7HD30S-3SMN: Focus
- Bolin VCC-7HD30S-3SMN: Focus One Push
- Bolin VCC-7HD30S-3SMN: Focus Settings
- Bolin VCC-7HD30S-3SMN: Zoom Settings
- ✓ Bolin VCC-7HD30S-3SMN: Exposure Mode
- Bolin VCC-7HD30S-3SMN: Iris
- Bolin VCC-7HD30S-3SMN: Shutter
- Bolin VCC-7HD30S-3SMN: Gain
- Bolin VCC-7HD30S-3SMN: AE Speed
- Bolin VCC-7HD30S-3SMN: Ex-Comp. Enable
- Bolin VCC-7HD30S-3SMN: Ex-Comp. Level
- Bolin VCC-7HD30S-3SMN: AE Comp
- Bolin VCC-7HD30S-3SMN: Gain Limit
- Bolin VCC-7HD30S-3SMN: Wide Dynamic Range Mode
- Bolin VCC-7HD30S-3SMN: White Balance
- Bolin VCC-7HD30S-3SMN: WB One Push
- Bolin VCC-7HD30S-3SMN: WB R/B Gain
- Bolin VCC-7HD30S-3SMN: Chroma Suppress
- Bolin VCC-7HD30S-3SMN: Sharpness
- Bolin VCC-7HD30S-3SMN: Noise Reduction
- Bolin VCC-7HD30S-3SMN: Gamma
- Bolin VCC-7HD30S-3SMN: Picture Effect
- Bolin VCC-7HD30S-3SMN: Preset
- Bolin VCC-7HD30S-3SMN: System
- Bolin VCC-7HD30S-3SMN: Speed Limit
- Bolin VCC-7HD30S-3SMN: Auto Shift level
- Bolin VCC-7HD30S-3SMN: Camera Select