

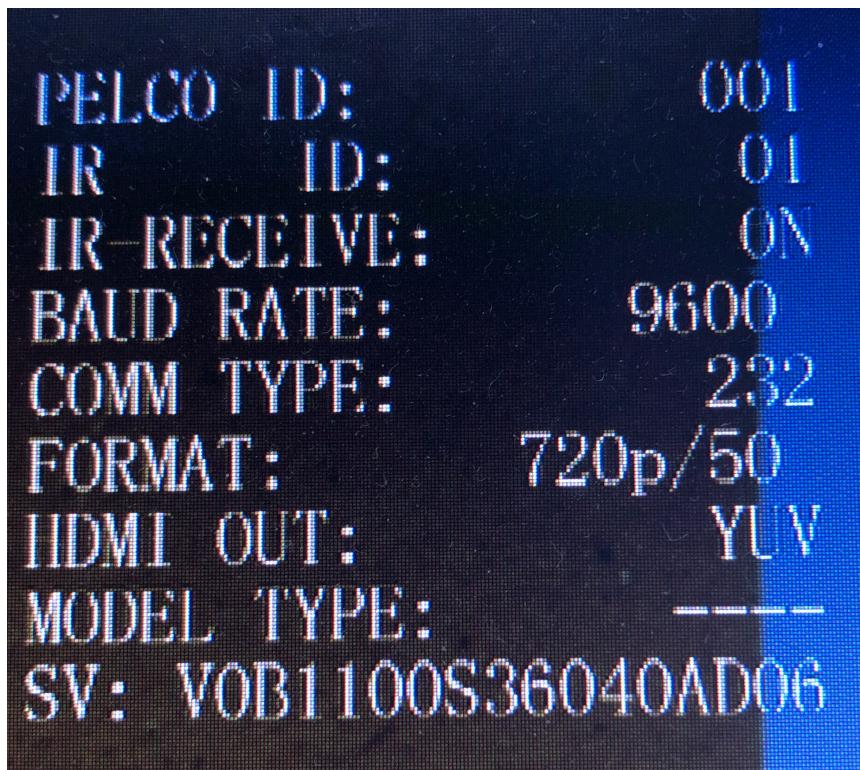
Device: Bolin VCC-7HD30S-3SMN



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.

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



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

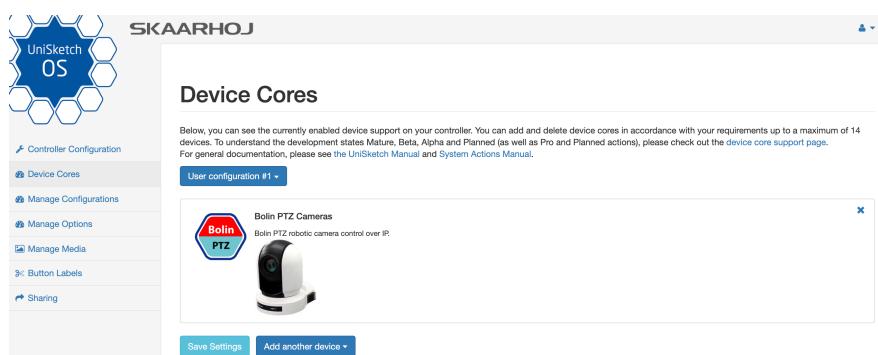
Example:

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!"

The screenshot shows a 'Serial Monitor' window with a title bar featuring three colored dots (red, yellow, green). The main area contains a text log of device startup and configuration. A sidebar on the right lists various commands.

```

.91
.I2C 400 kHz mode activated
*** Init Module XC16 (PTZ Pro) ***
Center values: 520,532,516
Init Display
HWvar:255
MAC address: 90:A1:DA:D0:38:C7
Requesting DHCP address... OK
IP address: 192.168.10.177
Subnet mask: 255.255.255.0
Gateway: 192.168.10.1
DNS: 192.168.10.2
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
System action 17
System action 15
System action 17
System action 17
VISCAbase: Connection to cam 2 established, pulling status
Received block command 0 for camera 2
HWc#3 Down Speed: 0
Received block command 1 for camera 2
VISCAbase: Connection to cam 1 established, pulling status
Received block command 0 for camera 1
Received block command 2 for camera 2
Received block command 3 for camera 2
Received block command 1 for camera 1
Received block command 4 for camera 2
Status received from camera 2!
Received block command 2 for camera 1
63
.Received block command 3 for camera 1
Received block command 4 for camera 1
Status received from camera 1!
91
.91
.91
.92
.93
.93
.92

```

Auto scroll

Commands

- reset
- config
- configd
- clearpresets
- debug
- newmac
- ok

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