

## Device: Bolin BC-9-4K12S-S6MN



## Introduction

A large number of parameters can be controlled on the Bolin BC-9-4K12S-S6MN. Control is via VISCA over IP (and not NDI). The Device Core is still in alpha with few bugs to get sorted out.

The implementation was done for the Bolin 4k with Firmware version V0K010B35010AA010.

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:

### Device Core Options (Alpha)

Bolin BC-9-4K12S-S6MN

IP matrix: Auto-fill

Group 1	
X Camera 1	<input type="text"/> Add Group
Add Camera	

Connection Type: VISCAoverIP

Video Mode: PAL

Destination Port: 52381

Source Port: 52381

Use Strict Connection Strategy: No

IP Matrix: The IP Matrix is to be used with the Camera Group Select action to create multiple IP groups for increasing the number of connected cameras.

Bolin BC-9-4K12S-S6MN: Camera Group Select	Group 1	Set
+		

Connection Type: Allows for alternative methods of connecting to the camera. The default is VISCAoverIP.

- ✓ VISCAoverIP
- SerialIP
- TCP
- UDP
- Serial

Video Mode: Allows you to change between PAL and NTSC. Please note that some models of camera require you to set this via a switch on the camera.

- ✓ PAL
- NTSC

Destination Port: coming soon

Source Port: coming soon

Use Strict Connection Strategy: coming soon

## Connection

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

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SKAARHOJ Main IP Config Serial Monitor

SK_MODEL: SK_PTZPRO
SK_SERIAL: 491941
Initialized PTZ Trace EEPROM handler, saving allowed.
EEPROM Size: 32768
I2C 400 kHz mode activated
*** Init Module XC16 (PTZ Pro) ***:
Deadzone settings init (X,Y,Z) = 10,10,10
Center values: 504,512,500
Init Display
MAC address: 92:A1:DA:51:5A:C7
Requesting DHCP address... OK
IP address: 192.168.10.5
Subnet mask: 255.255.255.0
Gateway: 192.168.10.1
DNS: 192.168.10.1
Boots Count: 373
Uptime: 193 hours, 28 minutes
Screen Saver: 28 hours, 3 minutes
Usage Stats Flags: 01
Compiled: Sep 17 2020 15:55:14
DeviceCore #0: BOLIN4K0, IP = 192.168.10.170
Loading DCOptions.
Found option D0:2 (int)=1
_deviceIdx 0 using VISCAoverIP
ClientVISCAoverIP fixedSrcPort: 0
Found option D0:10 (int)=-13155
DestinationPort 52381
Found option D0:11 (int)=-13155
SourcePort 52381
VISCA 0 using default camera IPs
Camera 1 loaded with IP: 192.168.10.170
Camera 2 loaded with IP: 192.168.10.171
Camera 3 loaded with IP: 192.168.10.172
Camera 4 loaded with IP: 192.168.10.173
Camera 5 loaded with IP: 192.168.10.174
Camera 6 loaded with IP: 192.168.10.175
Camera 7 loaded with IP: 192.168.10.176
setup() Done

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HwC#2 Down Speed: 0
System action 17
System action 15
System action 17
System action 17
System action 15
HwC#3 Down Speed: 0
VISCAbase: Connection to Camera 1 (192.168.10.170) established, pulling status
Received block command 0 for camera 1
Received block command 1 for camera 1
Received block command 2 for camera 1
Received block command 3 for camera 1
Received block command 4 for camera 1
Received block command 5 for camera 1
69
.VISCA Error camera 1
VISCA DELEGATE: inquiryPtr: 6 was added to ignore-list.
VISCA Error camera 1
VISCA DELEGATE: inquiryPtr: 9 was added to ignore-list.
VISCA Error camera 1
VISCA DELEGATE: inquiryPtr: 10 was added to ignore-list.
VISCA Error camera 1
VISCA DELEGATE: inquiryPtr: 11 was added to ignore-list.
86
.VISCA Error camera 1
VISCA DELEGATE: inquiryPtr: 17 was added to ignore-list.
86
Status received from camera 1!

```

## Action Overview

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

Please note the Matrix Color Parameters R-G, R-B, G-R, G-B, B-R, B-G are do not function at this time. We are working with Bolin to resolve the issue.

Bolin BC-9-4K12S-S6MN: Pan/Tilt	Bolin BC-9-4K12S-S6MN: Matrix
Bolin BC-9-4K12S-S6MN: Zoom (Binary)	Bolin BC-9-4K12S-S6MN: Matrix Color
Bolin BC-9-4K12S-S6MN: Focus (Binary)	Bolin BC-9-4K12S-S6MN: Chroma Suppress
Bolin BC-9-4K12S-S6MN: Focus One Push	Bolin BC-9-4K12S-S6MN: Detail Level
Bolin BC-9-4K12S-S6MN: PT Slow Mode	Bolin BC-9-4K12S-S6MN: Detail Auto
Bolin BC-9-4K12S-S6MN: PT Ramp Curve	Bolin BC-9-4K12S-S6MN: Detail Parameters
Bolin BC-9-4K12S-S6MN: Picture Profile	Bolin BC-9-4K12S-S6MN: NR Settings
Bolin BC-9-4K12S-S6MN: Focus Settings	Bolin BC-9-4K12S-S6MN: Gamma
Bolin BC-9-4K12S-S6MN: Digital Zoom	Bolin BC-9-4K12S-S6MN: Gamma Settings
Bolin BC-9-4K12S-S6MN: Exposure Mode	Bolin BC-9-4K12S-S6MN: Visibilty Enhancement
Bolin BC-9-4K12S-S6MN: Iris	Bolin BC-9-4K12S-S6MN: Preset
Bolin BC-9-4K12S-S6MN: Shutter	Bolin BC-9-4K12S-S6MN: Preset Drive
Bolin BC-9-4K12S-S6MN: Gain	Bolin BC-9-4K12S-S6MN: System
Bolin BC-9-4K12S-S6MN: AE Speed	Bolin BC-9-4K12S-S6MN: ND Filter
Bolin BC-9-4K12S-S6MN: Ex-Comp. Enable	Bolin BC-9-4K12S-S6MN: Camera Group Select
Bolin BC-9-4K12S-S6MN: Ex-Comp. Level	Bolin BC-9-4K12S-S6MN: PTZ Cruise Control
Bolin BC-9-4K12S-S6MN: AE Comp	Bolin BC-9-4K12S-S6MN: PTZ Trace
Bolin BC-9-4K12S-S6MN: Gain Limit	Bolin BC-9-4K12S-S6MN: Auto Shift level
Bolin BC-9-4K12S-S6MN: Gain Point	Bolin BC-9-4K12S-S6MN: Camera Select
Bolin BC-9-4K12S-S6MN: Gain Point Pos	
Bolin BC-9-4K12S-S6MN: Max Shutter	
Bolin BC-9-4K12S-S6MN: Min Shutter	
Bolin BC-9-4K12S-S6MN: Exp. Settings	
Bolin BC-9-4K12S-S6MN: White Balance	
Bolin BC-9-4K12S-S6MN: WB One Push	
Bolin BC-9-4K12S-S6MN: WB Offset	
Bolin BC-9-4K12S-S6MN: WB Speed	
Bolin BC-9-4K12S-S6MN: WB R/B Gain	