

# Blackmagic Camera Control via Atem

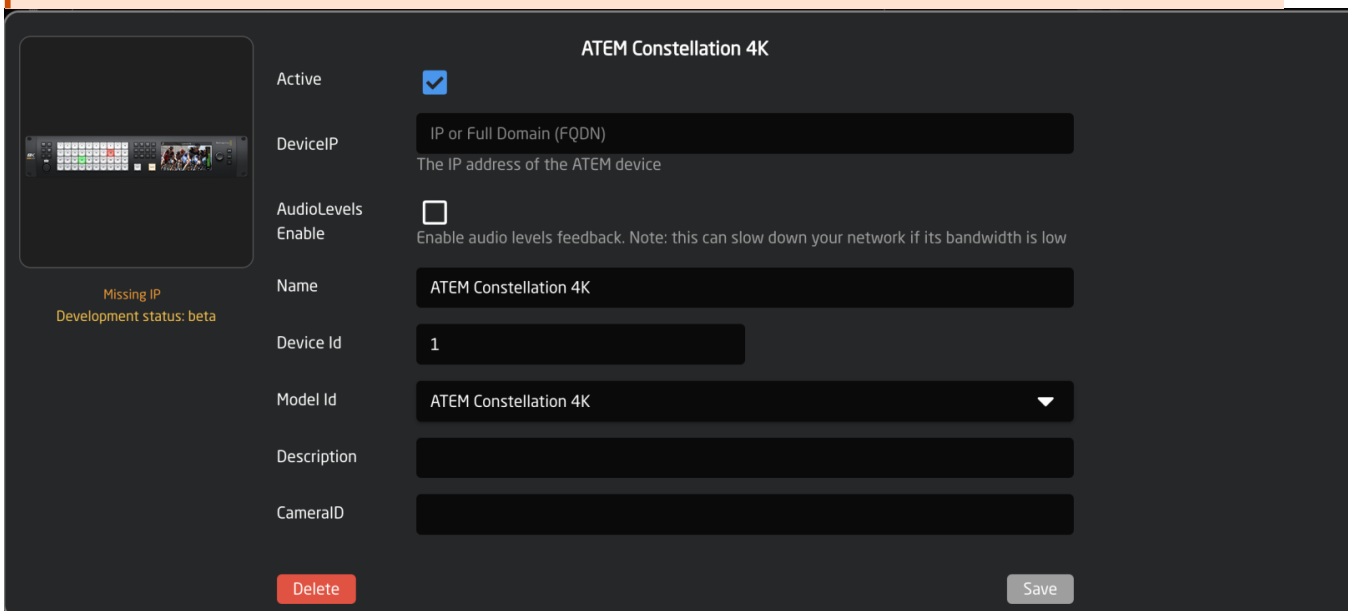
It is possible to control your Blackmagic cameras through an Atem switcher using your Skaarhoj Blue Pill panel.

1. Make sure you are have installed the BMD Atem device core package v0.0.6-pre21 or later. You can see what version you are currently using on the Packages page.

● Running	core-bmd-atem	core for BlackMagicDesign ATEM Video Mixers	beta	0.0.6-pre22
● Running	hardware-manager	Connecting the native panel to reactor		0.0.10-pre3
● Running	system-manager	skaarOS init system and webui		0.1.28-pre3
● Running	reactor	main application for connecting hardware and device cores		1.0.4-pre8

2. Add an instance of your Atem switcher on the Home Page under Devices and input its IP address on your network.

Please note: If you are using an Atem Constellation 8K in 4K mode, you need to select the Atem Constellation 4K to make sure all the correct settings are applied. If you are using it in 8K mode, select the Atem Constellation 8K.



The screenshot shows the configuration page for an ATEM Constellation 4K device. The page has a dark theme. On the left, there is a small video preview window showing a camera control panel. Below it, a yellow warning message reads "Missing IP" and "Development status: beta". The main configuration area is titled "ATEM Constellation 4K" and contains the following fields:

- Active:** A checked checkbox.
- DeviceIP:** A text input field containing "IP or Full Domain (FQDN)". Below it, a tooltip says "The IP address of the ATEM device".
- AudioLevels Enable:** An unchecked checkbox. Below it, a tooltip says "Enable audio levels feedback. Note: this can slow down your network if its bandwidth is low".
- Name:** A text input field containing "ATEM Constellation 4K".
- Device Id:** A text input field containing "1".
- Model Id:** A dropdown menu with "ATEM Constellation 4K" selected.
- Description:** An empty text input field.
- CameraID:** An empty text input field.

At the bottom of the configuration area, there are two buttons: a red "Delete" button on the left and a grey "Save" button on the right.

3. Using manual discovery, add your BMD cameras. Make sure you select the model that uses the BMD Atem device core NOT the BMD Cam Control device core.

Tip: Holding down the shift button on your keyboard while clicking Select will allow you to select multiple cameras.

Discover Devices Add Device Manually

Manual add devices

ursa g2

Device Name	Device Core	Description	Actions
Unknown	Unknown	Connects to the unknown device	Select
URSA Mini 4.6K	BMD ATEM	URSA Mini 4.6K	Select
URSA Broadcast G2	BMD ATEM	URSA Broadcast G2	Select
URSA Mini 4K	BMD ATEM	URSA Mini 4K	Select
URSA Broadcast G2	BMD Cam Control	URSA Broadcast G2	Select
URSA Mini 4K	BMD Cam Control	URSA Mini 4K	Select
URSA Mini 4.6K	BMD Cam Control	URSA Mini 4.6K	Select

4. In the device details for each camera enter the IP address of the Atem switcher and the camera/input number for each camera.

URSA Broadcast G2

Active

DeviceIP   
The IP address of the ATEM device

AudioLevels Enable   
Enable audio levels feedback. Note: this can slow down your network if its bandwidth is low

Name

Device Id

Model Id

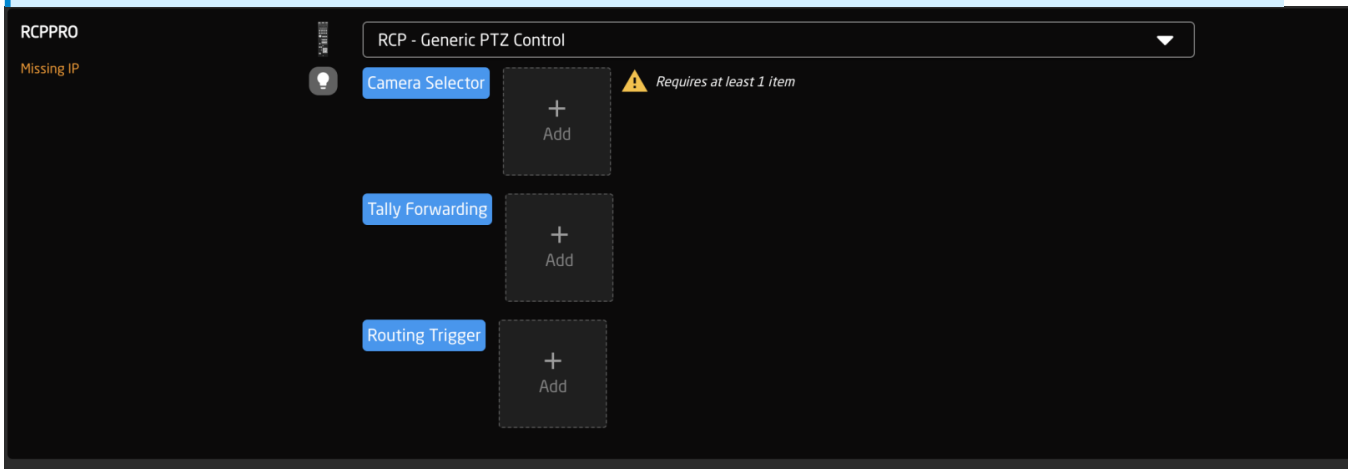
Description

CameraID

Connected  
Development status: beta

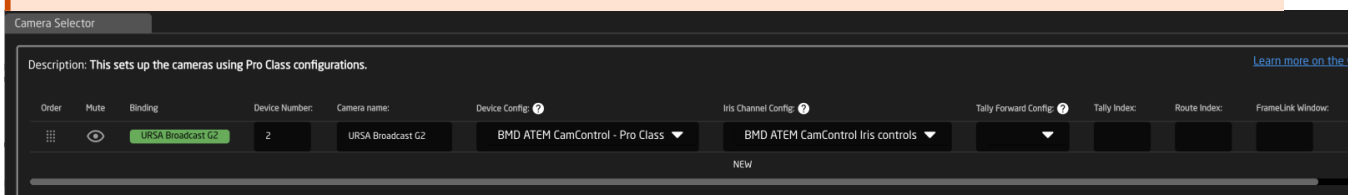
5. Select the Generic PTZ Control configuration in the config drop down for your panel.

Please Note: The Generic PTZ Configuration is available on a large number of controllers. Using this configuration allows for the easy addition and set up of multiple models and brands of cameras. The configuration will be custom to each camera type.



6. Add your cameras to the camera selector double checking that the Device Config and Iris Channel Config drop downs have the BMD ATEM CamControl selected.

Please Note: There are some use cases that would use a different Iris Channel Config, but for all lenses that are controllable via the camera this is the correct selection.



7. Success! You should be ready to start shading your BMD cameras from your Skaarhoj panel.

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