

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 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.



Missing IP
Development status: beta

ATEM Constellation 4K

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

Delete Save

- 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 |

- 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

Connected

Development status: beta

Test

Active

DeviceIP

AudioLevels Enable

Name

Device Id

Model Id

Description

CameraID

Delete

☒

IP or Full Domain (FQDN)

☐

URSA Broadcast G2

2

URSA Broadcast G2

Camera number in the Atem

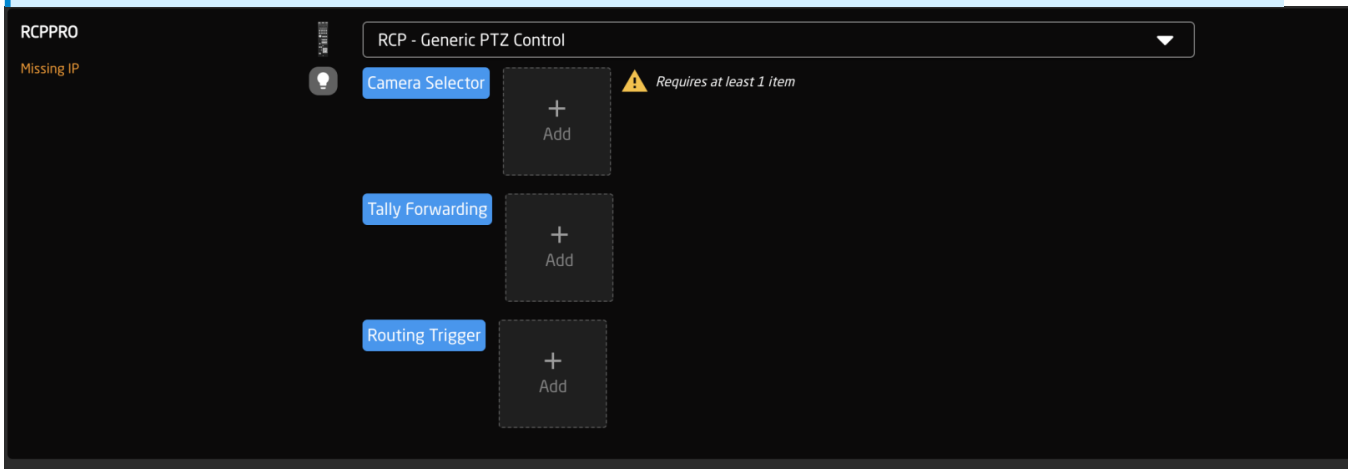
Save

The IP address of the ATEM device

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

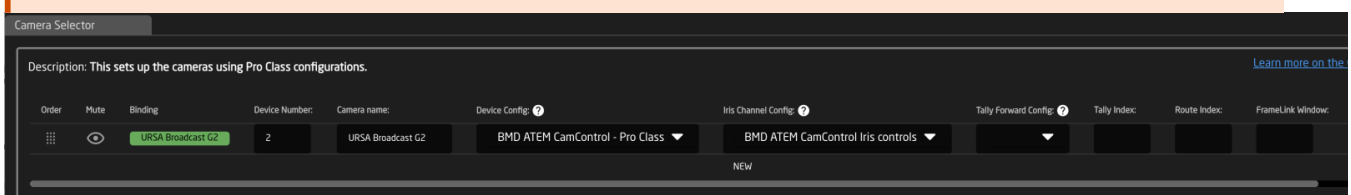
5. Select the Generic PTZ Control configuration in the config drop down for your panel.

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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