# **Device: BMD ATEM**



#### Introduction

A larger number of functions on the ATEM series of switchers can be controlled from a SKAARHOJ control panel and we have integrated with the ATEM switchers for a long time. A few things to notice with the current integration (for UniSketch OS controllers)

- Control of ME1 and ME2 is available but not 3ME and 4ME yet
- ATEM Firmware version 7.5.2 is supported but not version 8.0. Work in progress.
- Since we support version 7.5.2 currently a maximum number of sources to be selected is 20 (and not 40 like on the ATEM Constellation).

When using the ATEM Device Core our controllers can connect to the ATEM Switcher directly without the need of running ATEM Software Control Panel on your computer. But you can, and any change made either way will be reflected on each device.

You can connect to multiple ATEM Switchers from the same SKAARHOJ interface but limitations apply. The different ATEM Switchers varies in how many clients can be connected at the same time. For details see https://www.youtube.com/watch?v=ApYouYfX5G4

Protocol	Source Port (Random)	Destination Port
UDP	50100 -65300	9910

## **About ATEM Audio, Video and Camera Sources**

Whenever you can select audio, video and camera sources you will find special options in the drop down:

- Whenever you see "Mem A"-"Mem D" it means the source selected will be the one from the list which the given memory register value currently points to, starting the counting from zero. For example, if Mem A is 21, the source will be "Bars" because it's element number 22 in the list (and the first element, "Black", has number 0).
- For video sources, selecting AUX1-6 means the source will be whatever source is currently on AUX1-6. This will be dynamically evaluated.
- For video sources, selecting MVx/y means the source will be whatever source is currently on the multiviewer "x" (1 or 2) in window number "y". This will be dynamically evaluated.
- For camera sources, "Mem A"-"Mem D" will not point to the list, but simply refer to the camera number.

# **Device Configurations**

Device configuration options exist:

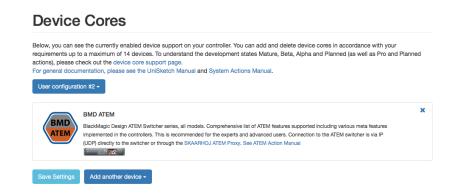
- Index 0: Sensor Gain / Camera Gain Setting Range
  - If "0" = default
  - If "1" = Extended -12dB/12dB Range
  - If "2" = Original Odb/18dB Range

#### Example:

Enabling "Sensor Gain / Camera Gain Setting Range" with the extended could look like this device configuration code: "D0:0=1" where the general form would be "Dx:0=1" where "x" is the number of the device core as installed on the controller (starting with zero for the first device core).

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:

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



Then settings the extended rage would be set by this configuration under "Manage Media" on <a href="mailto:cores.skaarhoj.com">cores.skaarhoj.com</a>:

# **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.

D0:0=1

#### This is a table of actions for Blackmagic Design ATEM Switchers

