Device: AJA HELO

Introduction

The AJA HELO is a powerful H.264 streaming and recording stand-alone appliance which can be remotely controlled by a SKAARHOJ control panel. The complete feature set is not implemented but a few practical actions can be found. This document gives you an overview of possible control parameters.

The implementation have been done on a AJA HELO with Software Version 4.0.0.54-4r.

Please notice the Device Core will *not* work if User Authentication have been set

Connection

When a SKAARHOJ device have successfully connected to the AJA HELO the serial monitor will report:

If the SKAARHOJ device are unable to locate the AJA HELO on the network the serial monitor will report:
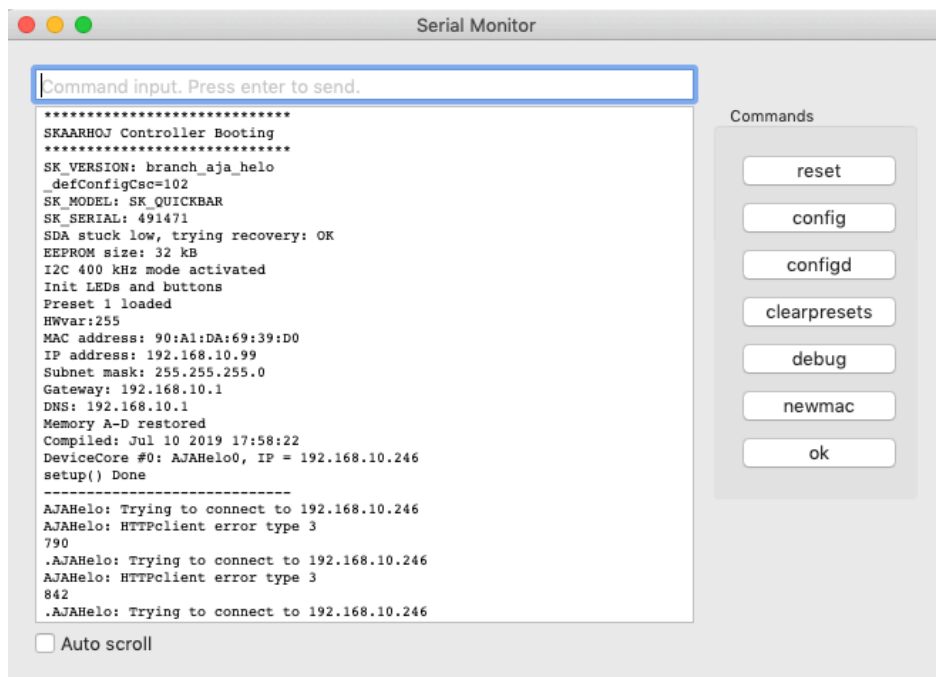
This is a overview of the actions implemented in the Device Core

AJA HELO: Stream
AJA HELO: Record
AJA HELO: Link Stream and Record
AJA HELO: Streaming profile
AJA HELO: Recording profile
AJA HELO: Video source
AJA HELO: Audio source
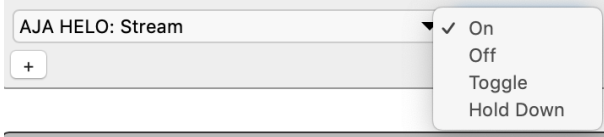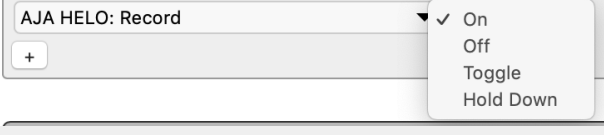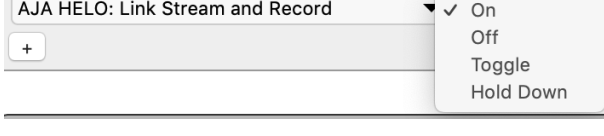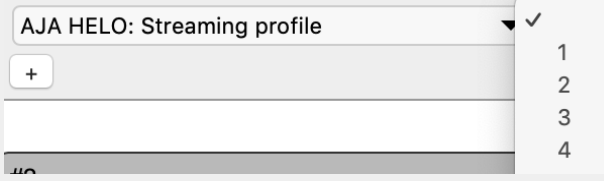AJA HELO: Preset

This is a table of actions for AJA HELO Device Core

Stream	Starts Streaming
AJA HELO: Stream ▼ ✓ On / Off / Toggle / Hold Down +	*Binary triggers:* Activates Streaming. If Toggle is selected, Streaming is stopped if it is already running. If Hold Down is selected, Streaming will stop again when the trigger is released.
	Pulse inputs: Will start/stop Streaming. Set Toggle to get propper Display Feedback
	Analog inputs: Not implemented
	Binary outputs: Not implemented
	Button colors: Bright when Streaming, otherwise dim
	Displays: Shows "Streaming" if the HELO is Streaming, otherwise "Stopped" when Toggle have been selected
Record	Activate Recording
AJA HELO: Record ▼ ✓ On / Off / Toggle / Hold Down +	*Binary triggers:* Activates Recording. If Toggle is selected, Recording is stopped if it is already running. If Hold Down is selected, Record will stop again when the trigger is released.
	Pulse inputs: Will start/stop Recording. Set Toggle to get propper Display Feedback
	Analog inputs: Not implemented
	Binary outputs: Not implemented
	Button colors: Red when Recording, otherwise dim
	Displays: Shows "Recording" if the HELO is recording, otherwise "Stopped" if Toggle have been selected
Link Stream and Record	Activate Stream + Record
AJA HELO: Link Stream and Record ▼ ✓ On / Off / Toggle / Hold Down +	*Binary triggers:* Activates Recording/Streaming. If Toggle is selected, Recording/Streaming is stopped if it is already running. If Hold Down is selected, Recording/Streaming will stop again when the trigger is released.
	Pulse inputs: Will start/stop Recording/Streaming. Set Toggle to get propper Display Feedback
	Analog inputs: Not implemented
	Binary outputs: Not implemented
	Button colors: Bright when Recording/Streaming, otherwise dim
	Displays: Shows "Enabled" if the HELO is Streaming/Recording, otherwise "Disabled" if Toggle have been selected.
Streaming Profile	Selects between 10 Streaming Profiles
AJA HELO: Streaming profile ▼ ✓ / 1 / 2 / 3 / 4 + #0	*Binary triggers: Sets the selected Streaming Profile*
	Pulse inputs: Cycle between Streaming Profiles
	Analog inputs: Not implemented
	Binary outputs: Not implemented
	Button colors: Bright when Profile match selection otherwise dim
	Displays: Shows "Stream Pr/x"

Recording Profile

AJA HELO: Recording profile ▾

✓
1
2
3
4
5

+

#2
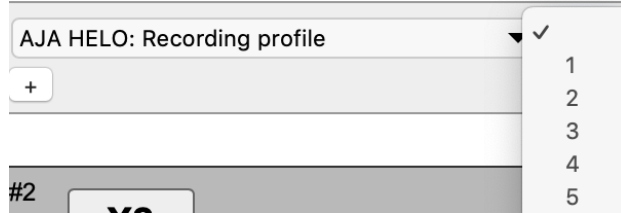
Selects between 10 Recording Profiles

Binary triggers: Sets the selected Recording Profile

Pulse inputs: Cycle between Recording Profiles
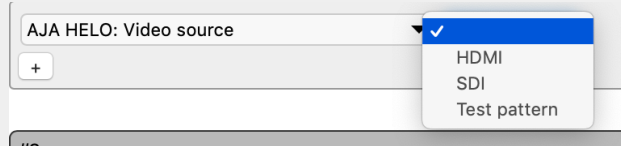
Analog inputs: Not implemented

Binary outputs: Not implemented

Button colors: Bright when Profile match selection otherwise dim

Displays: Shows "Record Pr/x"

Video Source

AJA HELO: Video source ▾

✓
HDMI
SDI
Test pattern

+

Selects the Video Source to HDMI, SDI or Test Pattern

Binary triggers: Sets the selected Video Source

Pulse inputs: Cycle between Video Sources

Analog inputs: Not implemented

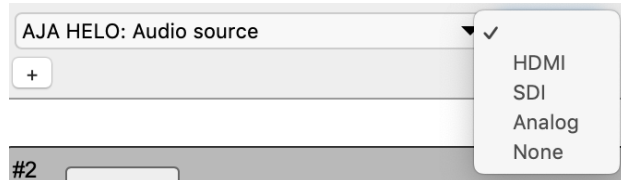*Binary outputs: Not implemented*

Button colors: Bright when pressed otherwise dim

Displays: Shows "Video Src/x"

Audio Source

AJA HELO: Audio source ▾

✓
HDMI
SDI
Analog
None

+

#2

Selects the Audio Source to HDMI, SDI, Analog or None

Binary triggers: Sets the selected Audio Source

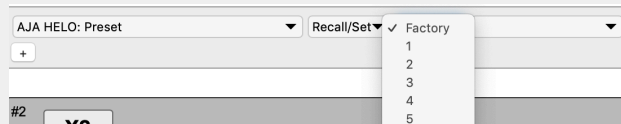*Pulse inputs: Cycle between Audio Sources*

Analog inputs: Not implemented

Binary outputs: Not implemented

Button colors: Bright when pressed otherwise dim

Displays: Shows "Audio Src/x"

Preset

AJA HELO: Preset ▾   Recall/Set▾

✓ Factory
1
2
3
4
5

+

#2   X2

Controls the Presets. Select between 20 Presets and the Factory Default

Binary triggers: If "Recall/Set" - press and hold will perform a Preset Set
A single press will recall the preset
If "Set" a single press will save the preset
If "Recall" a single press will recall the preset

Pulse inputs: Not implemented

Binary outputs: Not implemented

Displays:
If "Recall/Set" "Preset/no"
If "Set" "Set/no"
If "Recall "Recall/no"