Device: Panasonic AV-HS410

Firmware Version

This integration was made with system version 2.01.02

Plug-Ins

The following Plug-Ins and plug-in versions were used in the Panasonic AV-HS410:

CAM_IP v. 2.06

AUXP_IP v. 2.02

HS410_IF v. 2.01

The HS410_IF plug-in is needed for control of the AV-HS410 from an external device.

Known Bugs:

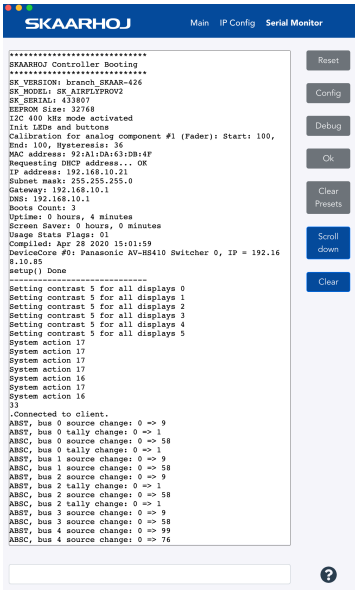
- No feedback on whether FTB or keys are on. The protocol does not seem to relay this information.
- No feedback on “Source Availability” the switcher does not relay if a source can be routed to a bus. The protocol does not seem to relay this information.

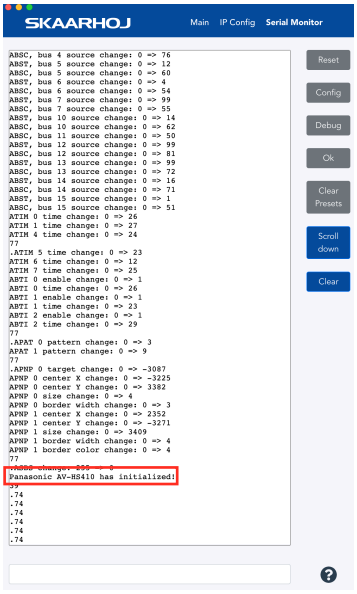
Introduction

A larger number of functions on the Panasonic AV-HS410 switcher can be controlled from a SKAARHOJ control panel.

Connection

When a SKAARHOJ controller have successfully connected to the Panasonic AV-HS410 the serial monitor will report:
Panasonic AV-HS410 has initialized!



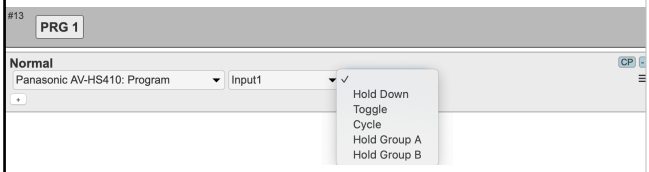
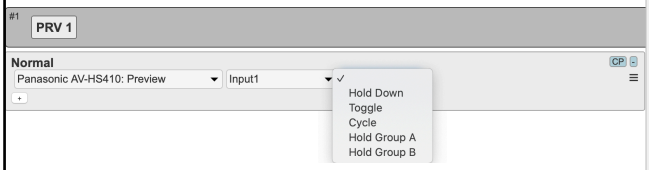


If the SKAARHOJ controller is unable to locate the Panasonic AV-HS410 on the network the controller will report:
Waiting for PANA HS410

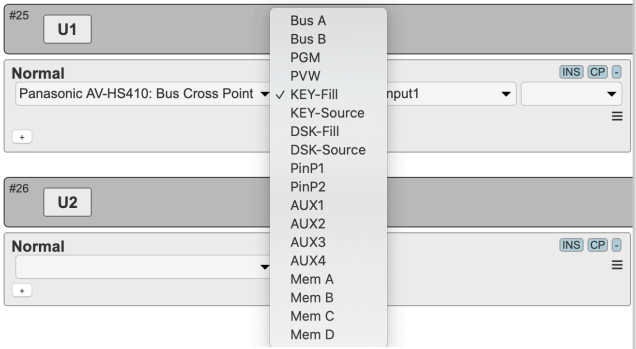
An excerpt of the actions in the Panasonic AV-HS410 Device Core

Panasonic AV-HS410: Program
Panasonic AV-HS410: Preview
Panasonic AV-HS410: Program/Preview
Panasonic AV-HS410: Bus Cross Point
Panasonic AV-HS410: Cut
Panasonic AV-HS410: Auto
Panasonic AV-HS410: Auto Transition Time
Panasonic AV-HS410: Bus Transition Time
Panasonic AV-HS410: Pattern

This is a table of actions for Panasonic AV-HS410 Switcher

Program 	Sets Program Source *Binary triggers:* Sets the selected source on Program. If Hold Down is selected, the source will fall back to the previous source whenever the trigger is released. Toggle will select the source, but on a subsequent trigger, it will fall back to the previous value. If Cycle mode is selected, a trigger will set the next source on Program (corresponds to a single pulse input). Hold Group A+B works like "Hold Down" but adds the previous source to a queue from which the fall back value is pulled when the button is released. *Pulse inputs:* Not yet implemented. *Binary outputs:* On when actual Program Src matches selected source (or when trigger is held in Cycle mode) *Button colors:* Will be red when Program Src matches selected source, otherwise dim. In Cycle mode color will be highlighted when button is held down.
Preview 	Sets Preview Source. *Binary triggers:* Sets the selected source on Program. If Hold Down is selected, the source will fall back to the previous source whenever the trigger is released. Toggle will select the source, but on a subsequent trigger, it will fall back to the previous value. If Cycle mode is selected, a trigger will set the next source on Program (corresponds to a single pulse input). Hold Group A+B works like "Hold Down" but adds the previous source to a queue from which the fall back value is pulled when the button is released. *Pulse inputs:* Not yet implemented. *Binary outputs:* On when actual Preview Src matches selected source (or when trigger is held in Cycle mode) *Button colors:* Will be green when Program Src matches selected source, otherwise dim. In Cycle mode color will be highlighted when button is held down.
Program/Preview 	Set Preview Source and if the trigger is held down for more than 1 second, it will perform a Cut action too. *Binary inputs:* Sets the select source on Preview. If Cycle mode is selected, a trigger will set the next source on Preview (corresponds to a single pulse input) when released unless the button is held until a Cut is performed in which case no new Preview source is selected. *Pulse inputs:* Not yet implemented. *Binary outputs:* On when actual Preview source or Program source matches the selected source (or when trigger is held in Cycle mode) *Button colors:* Will be red or green when Program or Preview Src matches selected source, otherwise dim. In Cycle mode color will be highlighted when button is held down. For mono-color buttons, the button will blink when the source is on preview (normally green on a multicolor button).

Bus Cross Point



Set Aux Bus source on the given Destination.

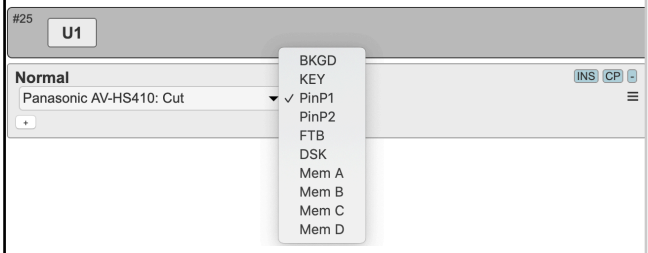
Binary inputs: Sets the select source to the selected destination in the Aux Bus Delegation. If Hold Down is selected, the source will fall back to the previous source whenever the trigger is released. Toggle will select the source, but on a second trigger, it will fall back to the previous value. Hold Groups will fall back to a previous source for a group of triggers using a queue system and finally to the first previous value before any trigger in the group was activated.

Pulse inputs: Not yet implemented.

Binary outputs: On when actual AUX bus source matches selected source (or when trigger is held in Cycle mode)

Button colors: will be highlighted when AUX bus source matches selected source, otherwise dim. In Cycle mode color will be highlighted when button is held down.

Cut



Executes CUT transition on selected Source.

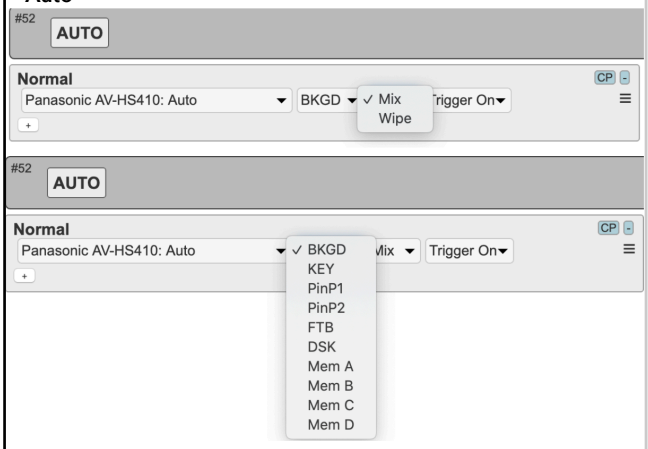
Binary triggers: Transitions source in preview to program and program to preview.

Pulse inputs: Toggles Preview and Program. Pressing down executes the command.

Binary outputs: On while transition executes.

Button colors: Will be highlighted when held down.

Auto



Executes assigned transition on the selected source.

Binary trigger: Transition source in preview to program and program to preview using the transition type assigned to the source.

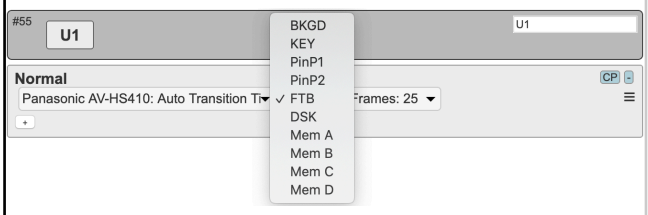
Pulse inputs: Turning executes the transition. Pressing down executes the transition

Analog input: Not yet implemented.

Binary outputs: Not yet implemented.

Button colors: Not yet implemented.

Auto Transition Time



Adjusts the video transition rate for the selected source.

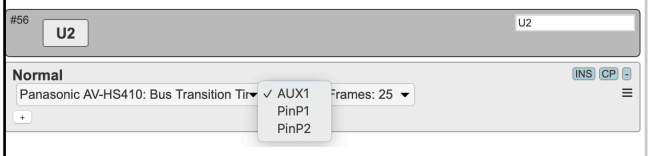
Binary trigger: Sets selected transition rate for selected source.

Pulse Input: Cycles through transition rate in frames for selected source.

Binary output: On when rate matches set frames.

Button colors: will be highlighted when rate matches set frames for selected source, otherwise dim.

Bus Transition Time



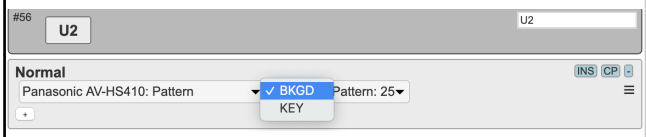
Adjusts the video transition rate for the selected Aux Bus source.

Binary trigger: Sets selected transition rate for selected source.

Pulse Input: Cycles through transition rate in frames for selected source.

Binary output: On when rate matches set frames.

Button colors: will be highlighted when rate matches set frames for selected source, otherwise dim.

Pattern 	Adjusts the video transition pattern for the selected source. *Binary trigger:* Not yet implemented *Pulse Input: Cycles through patterns for selected source.* Binary output: On when rate matches pattern. *Button colors:* will be highlighted when rate matches set frames for selected source, otherwise dim.