

Device: Roland V-60HD / XS-62S



Introduction

A number of parameters on the Roland V-60HD/XS-62S HD Video Switcher can be controlled from a SKAARHOJ control panel. The complete feature set is not implemented but a large variety of actions can be found. This document gives you an overview of possible control parameters. Control of the Video Switcher is via IP.

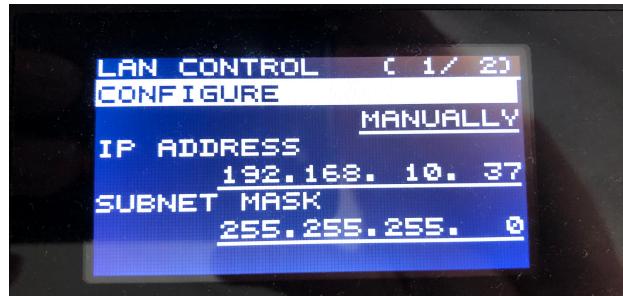
The implementation have been done on a V-60HD with NPU version 1.022.

The implementation have been done on a XS-62S with NPU version 1.018.

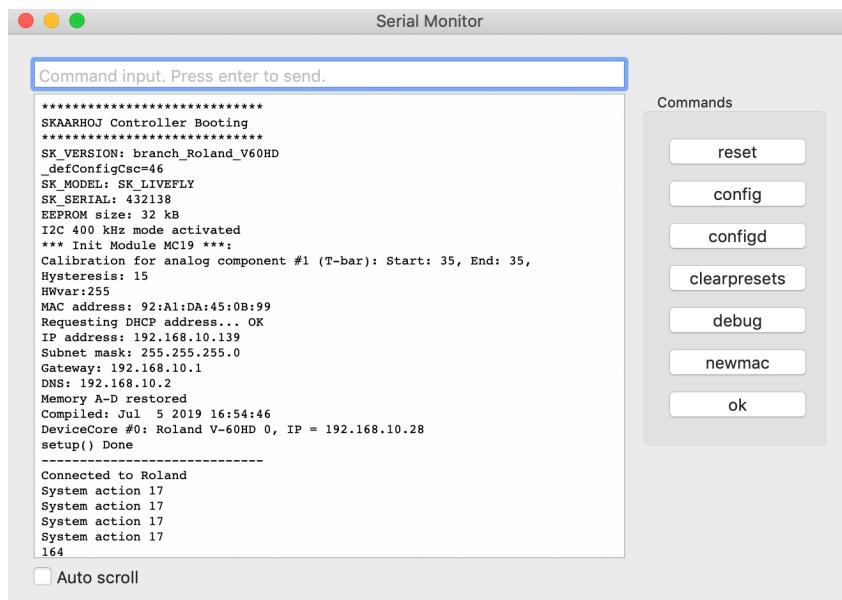
Please notice. As the two Roland switchers differs slightly in functionality and protocol a Device Core options needs to be set in order to control the XS-62S. Please see [Device Configuration](#).

Connection

In order to control the Roland a fixed IP address must be set in the menu. The IP address here must match the IP address of the Roland Device Core.



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



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If the SKAARHOJ device are unable to locate the Roland switcher on the network the serial monitor will report:



Device Configurations

Device configuration options exist:

- Index 0: **XS-62S Support**
 - If "1" = Support for XS-62S is enabled

Example I:

Enabling "XS-62S Support" could look like this device configuration code: "D0:0=1" where the general form would be "Dx:y=z" where "x" is the number of the device core as installed on the controller (starting with zero for the first device core), "y" the index number and "z" the value for that index.

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:

```
Memory A-D restored
Compiled: Nov 13 2019 19:37:06
D0[0] = 1
DeviceCore #0: Roland V-60HD / XS-62S 0, IP = 192.168.10.24
0
Using XS-62S
setup() Done
```

If the Roland device core is the first like below:

The screenshot shows the UniSketch OS interface under the 'Device Cores' section. On the left is a sidebar with links: Controller Configuration, Device Cores (which is selected and highlighted in blue), Manage Configurations, Manage Media, Button Labels, and Firmware Overview. The main content area is titled 'Device Cores'. It contains a message about enabling device support and links to documentation. Below this, a card displays the 'Roland V-60HD / XS-62S' device, featuring its logo, a small image of the hardware, and the text 'Roland V60-HD and XS-62S control over IP. Go to manual'. At the bottom of the card are 'Save Settings' and 'Add another device' buttons.

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Then setting the "XS-62S" would be set by this configuration under "Manage Media" on your configuration page for your controller on cores.skaarhoj.com

The screenshot shows the SKAARHOJ UniSketch OS interface. On the left is a sidebar with a hexagonal logo and the text "UniSketch OS". The sidebar includes links for "Controller Configuration", "Device Cores", "Manage Configurations", "Manage Media" (which is highlighted in blue), "Button Labels", and "Firmware Overview". The main content area has a header "SKAARHOJ" and a sub-header "Manage Media". A sub-sub-header "Device Core Options" is followed by a note: "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." Below this is a text input field containing "D0:=1". The next section is titled "Strings" with a "Add String" button. It contains two input fields: "String 1:" with "Save" and "String 2:" with "Load". Below these is a note: "Note on Local Label Formats for Strings". It explains string formats like "[Header] | [Line 1] | [Line 2]", prefixing with "\$12" or "\$3" for specific character counts, and the use of "Status" for status indicators. At the bottom of the main content area are "Save Settings" and "Add Image" buttons.

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This is a overview of the actions implemented in the Device Core

- Roland V-60HD: Program
- Roland V-60HD: Preset
- ✓ Roland V-60HD: Program/Preset
- Roland V-60HD: AUX
- Roland V-60HD: Cut
- Roland V-60HD: Auto
- Roland V-60HD: Fade To Black
- Roland V-60HD: DSK
- Roland V-60HD: DSK Source
- Roland V-60HD: DSK Param
- Roland V-60HD: DSK Preview
- Roland V-60HD: Composition
- Roland V-60HD: Composition Param
- Roland V-60HD: Transition Type
- Roland V-60HD: Transition Rate
- Roland V-60HD: Audio Solo
- Roland V-60HD: Audio Mute
- Roland V-60HD: Audio Phantom
- Roland V-60HD: Audio Digital Gain
- Roland V-60HD: Audio Volume
- Roland V-60HD: Audio HeadAmp Gain
- Roland V-60HD: Audio Meter
- Roland V-60HD: Video Tally
- Roland V-60HD: Memory

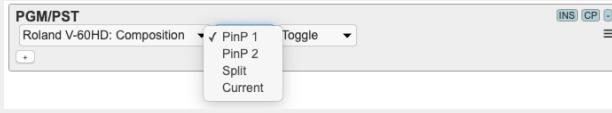
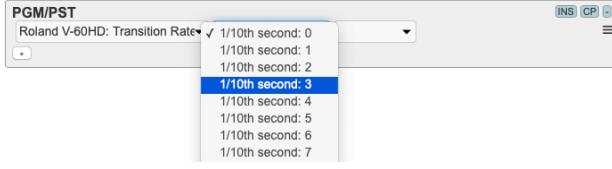
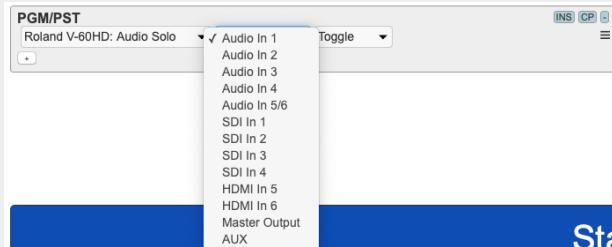
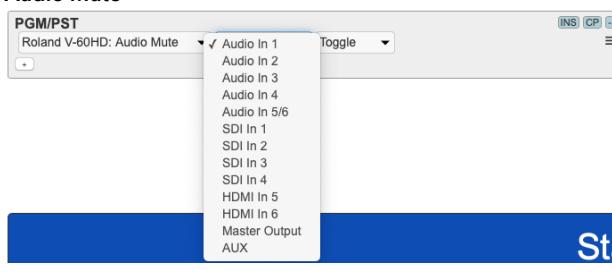
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This is a table of actions for Roland V-60HD Device Core

Program	 <p>Sets Program Source</p> <p><i>Binary triggers:</i> Sets the selected source on program. If cycle up/down is selected source selection will go up/down</p> <p><i>Pulse inputs:</i> Will cycle through and set the possible sources for Program</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "PGM/A x"</p> <p><i>Button colors:</i> Will be red when Program Src matches selected source, otherwise dim</p>
Preset	 <p>Sets Preset Source</p> <p><i>Binary triggers:</i> Sets the selected source on preset. If cycle up/down is selected source selection will go up/down</p> <p><i>Pulse inputs:</i> Will cycle through and set the possible sources for Preset</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "PST/B x"</p> <p><i>Button colors:</i> Will be red when Program Src matches selected source, otherwise dim</p>
Program/Preset	 <p>Set Preset Source and if the trigger is held down for more than 1 second, it will perform a Cut action too.</p> <p><i>Binary inputs:</i> Sets the select source on Preset. If press and hold a CUT is performed.</p> <p><i>Pulse inputs:</i> Will cycle through and set the possible sources for Preview</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "PGM/PST x"</p> <p><i>Button colors:</i> Will be red or green when Program or Preset Src matches selected source, otherwise dim</p>
AUX	 <p>Sets AUX Source</p> <p><i>Binary inputs:</i> Sets the select source on AUX</p> <p><i>Pulse inputs:</i> Will cycle through and set the possible sources for AUX</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "AUX x"</p> <p><i>Button colors:</i> Will be red when AUX Src matches selected source, otherwise dim. It will follow the colouring of AUX from the V-60HD (see their manual)</p>
Cut	 <p>Performs a Cut</p> <p><i>Binary inputs:</i> Cut</p> <p><i>Pulse inputs:</i> Not implemented</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "Transition/CUT"</p> <p><i>Button colors:</i> Light up when pressed</p>

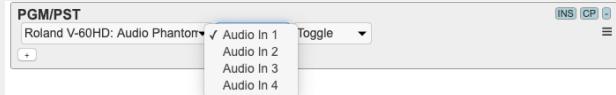
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Auto	Performs a Auto Transition
PGM/PST Roland V-60HD: Auto	<i>Binary inputs:</i> Auto Transition <i>Pulse inputs:</i> Not implemented <i>Binary outputs:</i> Not implemented <i>Displays:</i> "Transition/AUTO" <i>Button colors:</i> Blinks red during transition otherwise dim
Fade To Black	Performs a Fade to Black (called Output Fade on V-60HD)
PGM/PST Roland V-60HD: Fade To Black	<i>Binary inputs:</i> Fade to Black/Output Fade <i>Pulse inputs:</i> Not implemented <i>Binary outputs:</i> Not implemented <i>Displays:</i> "Transition/FTB" <i>Button colors:</i> Blinks red during transition. Red when on, otherwise dim
DSK	Turns downstream keyer on and off
PGM/PST Roland V-60HD: DSK	<i>Binary inputs:</i> Turns DSK on/off if "Toggle" is selected <i>Pulse inputs:</i> Not implemented <i>Binary outputs:</i> Not implemented <i>Displays:</i> "DSK/on-off" - will show "DSK/trans" during transition <i>Button colors:</i> Dim when off, yellow blinking in transition, red when on
DSK Source	Sets the source for the downstream keyed
PGM/PST Roland V-60HD: DSK Source	<i>Binary inputs:</i> Sets the src for DSK <i>Pulse inputs:</i> Will cycle through and set the possible DSK sources <i>Binary outputs:</i> Not implemented <i>Displays:</i> "DSK Source/x" <i>Button colors:</i> Will be red when DSK Src matches selected source, otherwise dim.
DSK Param	Sets the DSK parameters Level and Gain
PGM/PST Roland V-60HD: DSK Param	<i>Binary inputs:</i> Sets the Level/Gain parameter to the selected value (range 0-255 corresponds to 0-100%) <i>Pulse inputs:</i> Will cycle through the range for 0-100% for the given option <i>Binary outputs:</i> Not implemented <i>Displays:</i> "DSK Level/x%" + "DSK Gain/x%" <i>Button colors:</i> Dim
DSK Preview	Activate the DSK Preview (corresponds to DSK PVW on V-60HD)
PGM/PST Roland V-60HD: DSK Preview	<i>Binary inputs:</i> Turn on/off the DSK Preview <i>Pulse inputs:</i> Not implemented <i>Binary outputs:</i> Not implemented <i>Displays:</i> "DSK Prev/on-off" <i>Button colors:</i> Dim when inactive, bright when active

Composition 	<p>Activate the selected composition style</p> <p><i>Binary inputs:</i> Turn on/off the selected composition style</p> <p><i>Pulse inputs:</i> Not implemented</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "Com./PinP1" + "Com./PinP2" + "Com./SPLIT"</p> <p><i>Button colors:</i> Dim when inactive, green when active for PinP1 + PinP2. Red when active for SPLIT</p>
Compositions Param 	<p>Sets the Composition parameters H/PGM-CTR + V/PST-CTR for a selected composition style or the current composition style</p> <p><i>Binary inputs:</i> Not implemented</p> <p><i>Pulse inputs:</i> Will cycle through the values for the selected composition style</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "H/PGM-CTR/x%" + "V/PST-CTR/x%"</p> <p><i>Button colors:</i> Dim</p>
Transition Type 	<p>Sets the Transition Type to Mix, Wipe 1 and Wipe 2</p> <p><i>Binary inputs:</i> Sets the selected Transition Type</p> <p><i>Pulse inputs:</i> Will cycle through the options for Transition Style</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "Transition Type/x"</p> <p><i>Button colors:</i></p>
Transition Rate 	<p>Sets the Transition Rate to a value between 0 and 4 seconds.</p> <p><i>Binary inputs:</i> Sets the selected Transition Rate</p> <p><i>Pulse inputs:</i> Will cycle through the values for Transition Rate</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "TransRate/x"</p> <p><i>Button colors:</i> Dim</p>
Audio Solo 	<p>Activates Audio Solo for selected audio source</p> <p><i>Binary inputs:</i> Toggle the solo state for selected audio source</p> <p><i>Pulse inputs:</i> Not implemented</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "Aud. Solo/x"</p> <p><i>Button colors:</i> Bright when solo otherwise dim</p>
Audio Mute 	<p>Sets a Audio Source to mute/not muted</p> <p><i>Binary inputs:</i> Toggle the muted state for selected audio source</p> <p><i>Pulse inputs:</i> Not implemented</p> <p><i>Binary outputs:</i> Not implemented</p> <p><i>Displays:</i> "Aud.Mute/x"</p> <p><i>Button colors:</i> Bright when muted otherwise dim</p>

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Audio Phantom



Controls the Audio Phantom power for Audio In 1-4

Binary inputs: Toggle phantom power for selected Audio Src

Pulse inputs: Not implemented

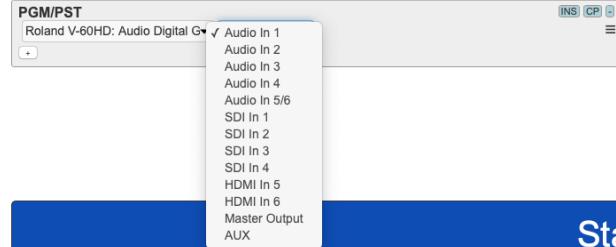
Binary outputs: Not implemented

Displays: "Aud. Phan/Aud x"

Button colors: Bright when phantom power is on otherwise dim

Controls the Audio Digital Gain for selected Audio Src

Audio Digital Gain



Binary inputs: Not implemented

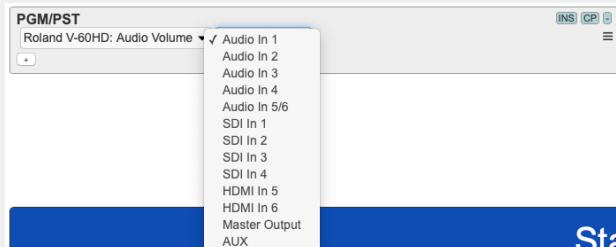
Pulse inputs: Adjust the Audio Digital Gain

Analog inputs: Set value between -42.0 dB to 42.0 dB

Binary outputs: Not implemented

Displays: "Digi. Gain/Source/x dB"

Audio Volume



Button colors:

Controls the Audio Volume for selected Audio Src

Binary inputs: Not implemented

Pulse inputs: Adjust the Audio Volume

Analog inputs: Set value between -INF to 10.00

Binary outputs: Not implemented

Displays: "Source x/x"

Audio HeadAmp Gain



Button colors:

Controls the Audio preAmp Gain for Audio In 1-4

Binary inputs: Not implemented

Pulse inputs: Adjust the preAMP GAIN

Analog inputs: Set value between 0 dB to 640 dB

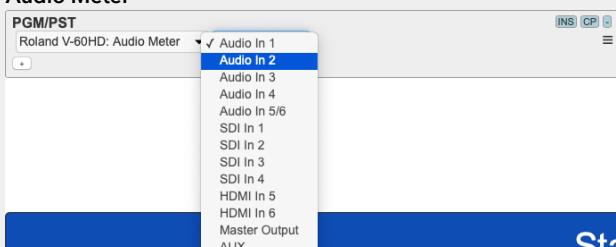
Binary outputs: Not implemented

Displays: "Headamp/Source/x"

Button colors:

Provides Audio Meter Data for the selected audio source. Output function only.

Audio Meter



Binary inputs: Not implemented

Pulse inputs: Not implemented

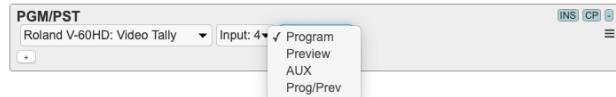
Binary outputs: Not implemented

Displays:

Button colors:

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Video Tally



Provides Video Tally Data for the selected source and option (Program, Preset, AUX, Prog/Pres")

Binary inputs: Not implemented

Pulse inputs: Not implemented

Binary outputs: On when actual Program/Preset/AUX/Prog+Prev Src matches selected source

Displays:

Button colors:

Controls the internal preset memory (1-8) on the V-60HD

Memory



Binary inputs: If no option is set the selected Memory will be chosen. If "Hold to set" is chosen then a press and hold will result in the memory being loaded. If "Hold to save" is chosen then a press and hold will result in the memory being saved.

Pulse inputs: Will cycle between the memory parameter if no option is selected. If "Hold to set" then a press and hold on the encoder will result in the selected memory being loaded. If "Hold to save" then a press and hold on the encoder will result in the selected memory being saved.

Binary outputs: Not implemented

Displays: "Memory/x"

Button colors: Will be yellow when Memory matches selected number, otherwise dim