

Luxi switcher SHD-310SM RS-232 commands

Rev 4.02

Function	Command	Response	Notes	Factory default
Product information commands				
Query device part number	<i>p</i>	71-003-02¶	Numeric and dash only	
MCU firmware version	<i>1P</i>	x.xx¶	Numeric only	
Scaler firmware version	<i>2P</i>	x.xx¶	Numeric only	
Splitter firmware version	<i>3P</i>	x.xx¶	Numeric only	
Reset command				
Reset to factory defaults	<i>r</i>	Reset		
Input selection commands				
Select local input x	<i>x s</i>	Input <i>x</i> live¶	x has 3 possible values, 1 thru 3	2s (HDMI input)
Set auto switch on	<i>0s</i>	Auto sw on¶	Will release by new input selection	
Query local input status	<i>s</i>	Input <i>x</i> live¶ Auto sw on (or off)¶ Input <i>x</i> signal present¶ Input <i>x</i> signal present¶	Send all 3 groups of status to "s" command, only one group of status to the one just changed	
Defeat front panel input selection	<i>0A</i>	Front panel sw off¶ Auto sw off¶	When front panel switch pressed, the LED fast blinking twice	
Allow front panel input selection	<i>1A</i>	Front panel sw on¶ Auto sw off¶		
Allow auto switching and defeat front panel input selection	<i>2A</i>	Front panel sw off¶ Auto sw on¶	When front panel switch pressed, the LED fast blinking 3 times	2A (auto sw on, front panel sw off)
Query front panel switch status	<i>A</i>	Front panel sw off (or on)¶ Auto sw on (or off)¶		
Scaler commands				
Initiate auto image	<i>a</i>	Auto image on¶		
Set output format to pixel to pixel	<i>0o</i>	Output format pixel to pixel¶	Only supports 7 preset resolutions: 720p, 1080p, 1280x800, 1920x1200, 1024x768, 1280x1024, 1600x1200	
Set output format to 720p	<i>1o</i>	Output format 720p¶		
Set output format to 1080p	<i>2o</i>	Output format 1080p¶		2o (output 1080p)
Set output format to 1280x800	<i>3o</i>	Output format 1280x800¶		
Set output format to 1920x1200	<i>4o</i>	Output format 1920x1200¶		
Set output format to 1024x768	<i>5o</i>	Output format 1024x768¶		
Set output format to 1280x1024	<i>6o</i>	Output format 1280x1024¶		
Set output format to 1600x1200	<i>7o</i>	Output format 1600x1200¶		
Query output format	<i>o</i>	(One of the responses from cell C30 to C37)		
Set zoom level on	<i>xz</i>	Zoom level <i>x</i> ¶	x has 6 possible values, 1 thru 6	1z (zoom level 1)
Query zoom level	<i>z</i>	Zoom level <i>x</i> ¶		
Video output commands				
Video mute	<i>0m</i>	Video mute on¶	Kill all video	
Video off OSD off when no input	<i>1m</i>	Video off OSD off when no input¶	This would enable monitor sleep mode	
OSD on when no input	<i>2m</i>	OSD on when no input¶	This would enable screen saver	2m (OSD on when no input)
Query video output mode	<i>m</i>	(One of the responses from cell C43 to C45)		
Audio commands				
Audio mute on	<i>0M</i>	Audio mute on¶	Both analog and HDMI audio muted	
Digital audio pass thru	<i>1M</i>	Digital audio pass thru¶	HDMI/DP audio pass thru; HDMI/DP audio de-embedded to analog output	
Audio mixing and embedding	<i>2M</i>	Audio mixing and embedding¶	3.5 mm audio mixed with HDMI/DP audio to both analog and HDMI outputs	2M (3.5 mm audio mixed with HDMI/DP audio)
3.5 mm audio with VGA only	<i>3M</i>	3.5 mm audio with VGA only¶	3.5 mm audio is only active when VGA input selected	
3.5 mm audio only	<i>4M</i>	3.5 mm audio only¶	3.5 mm audio is always active; all other audio muted in all inputs	
Query audio mode	<i>M</i>	(One of the responses from cell C49 to C53)		
Display power control commands				

Press and hold front panel switch for more than 5 seconds will toggle the auto sw on or off; LED fast blinking 3 or 2 times respectively

Store display power on command <i>xxx</i>	<i>2{xxx}R</i>	Display power on command stored¶		
Erase display power on command	<i>2{}R</i>	Display power on command erased¶		
Query display power on command	<i>2R</i>	Display power on command is <i>xxx</i> ¶		
Store display power off command <i>yyy</i>	<i>1{yyy}R</i>	Display power off command stored¶		
Erase display power off command	<i>1{}R</i>	Display power off command erased¶		
Query display power off command	<i>1R</i>	Display power off command is <i>yyy</i> ¶		
Enable display power control and set power off delay to z minutes	<i>1*zR</i>	Display power control enabled¶ Display power off delay y minutes¶	z can be any number between 1 to 60	
Disable display power control	<i>0R</i>	Display power control disabled¶		0R (display power control disabled)
Query display power control status	<i>R</i>	Display power control enabled (or disabled)¶ Display power off delay y minutes¶		Only when the status is enabled
Scaler firmware update	<i>2u</i>	Check monitor's OSD for status¶	Authorized engineers only	

RS-232 baud rate/protocol **9600 baud, 8 data bits, 1 stop bit, no parity**
RS-232 port pin configurations **1 = Tx, 2 = Rx, 3 = GND**

Note: The italic and underlined letters represent decimal numeric numbers
¶ is CR/LF (carriage return/line feed) (HEX value 0D 0A)

Not all firmware revisions have all the functions
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