

## Luxi RHB-350 scaler Tx RS-232 commands

Rev 1.03

Function	Command to RHB-350	Response from RHB-350	Notes	Factory default
<b>Product information commands</b>				
Query device part number	<i>p</i>	74-040-01¶	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	
HDBT firmware version	<i>4P</i>	x.xx¶	Numeric only	
<b>Reset command</b>				
Reset to factory defaults	<i>r</i>	Reset		
<b>Input selection commands</b>				
Select local input x	<i>x s</i>	Input x 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 x live¶ Auto sw on (or off)¶ Input x signal present¶ Input x 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	Press and hold front panel switch for about 7 seconds will toggle the auto sw on or off; LED fast blinking 3 or 2 times respectively
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	
Query front panel switch status	<i>A</i>	Front panel sw off (or on)¶ Auto sw on (or off)¶		
<b>Scaler commands</b>				
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 x¶	x has 6 possible values, 1 thru 6	1z (zoom level 1)
Query zoom level	<i>z</i>	Zoom level x¶		
<b>Video output commands</b>				
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)
<b>OSD off in all conditions</b>	<b><i>3m</i></b>	<b>OSD off¶</b>		
Query video output mode	<i>m</i>	(One of the responses from cell C43 to C45)		
<b>Audio commands</b>				
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)		
<b>Display power control commands</b>				
Store display power on command xxx	<i>2{xxx}R</i>	Display power on command stored¶		
Erase display power on command	<i>2ØR</i>	Display power on command erased¶		
Query display power on command	<i>2R</i>	Display power on command is xxx¶		
Store display power off command yyy	<i>1{yyy}R</i>	Display power off command stored¶		
Erase display power off command	<i>1ØR</i>	Display power off command erased¶		
Query display power off command	<i>1R</i>	Display power off command is yyy¶		

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	
		xxx	Sent out from the RS232 port after projector control is enabled initially, and when the first signal detected after "yyy" sent	
		yyy	Sent out from the RS232 port after no input signal detected for "z" minutes.	

<b>THB-350 to RHB-350 pass thru commands</b>				
The external host connected to THB-350 sending command "zzz" to the external device connected to RHB-350	<i>{zzz}Q</i>			
The external device connected to RHB-350 sending the response "rrr" back to the external host connected to THB-350		<i>rrr</i>		

Scaler firmware update	<i>2u</i>	Check monitor's OSD for status¶	Authorized engineers only	
Set RS-232 baud rate to 9600	<i>20u</i>	Baud rate 9600		<b>20u (9600)</b>
Set RS-232 baud rate to 19200	<i>21u</i>	Baud rate 19200		
Query RS-232 baud rate	<i>u</i>	Baud rate 9600 (or) Baud rate 19200		
Query the 13 digits monitor EDID value	<i>1E</i>	Monitor EDID xxx		<b>Luxi THB350</b>
Set the 13 digits monitor EDID value	<i>1[xxx]E</i>	Monitor EDID xxx		
Erase the 13 digit monitor EDID value	<i>1[]E</i>	Monitor EDID erased		
Query the 3 digits vendor EDID value	<i>2E</i>	Monitor EDID xxx		<b>Lux</b>
Set the 3 digits vendor EDID value	<i>2[xxx]E</i>	Monitor EDID xxx		
Erase the 3 digit vendor EDID value	<i>2[]E</i>	Monitor EDID erased		

**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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