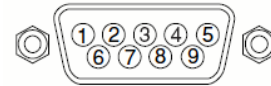


LX-UH1 External command

1. Interface

D-SUB 9pin Male terminal

Pin No.	Name	Pin No.	Name
1	NC	6	NC
2	RXD	7	NC
3	TXD	8	NC
4	NC	9	NC
5	GND		



2. Communication specification

Communication System	Asynchronous
Baud rate	9,600 bps
Data length	8 bits
Parity	None
Stop bit	1 bit
Flow control	None
Communication code	ASCII character code

3. Command list

Condition

1. Character delay=>0 ms
2. Stand by 0.5W and any baud rate don't loss command.

(.Each input upper case and lower case character should be action)

Function	Type	Operation	ASCII	Standby	Warming Up	Cooling Down
Power	Write	Power On	<CR>*pow=on#<CR>	Y	N	N
	Write	Power Off	<CR>*pow=off#<CR>	N	N	N
	Read	Power Status	<CR>*pow=?#<CR>	Y	Y	Y
Source Selection	Write	COMPUTER/YPbPr	<CR>*sour=RGB#<CR>	N	N	N
	Write	HDMI	<CR>*sour=hdmi#<CR>	N	N	N
	Write	HDMI 2	<CR>*sour=hdmi2#<CR>	N	N	N
	Read	Current source	<CR>*sour=?#<CR>	N	N	N
Picture Mode	Write	Dynamic	<CR>*appmod=dynamic#<CR>	N	N	N
	Write	Cinema	<CR>*appmod=cine#<CR>	N	N	N
	Write	Natural	<CR>*appmod=natural#<CR>	N	N	N
	Write	User1	<CR>*appmod=user1#<CR>	N	N	N
	Write	User2	<CR>*appmod=user2#<CR>	N	N	N

	Read	Picture Mode	<CR>*appmod=?#<CR>	N	N	N
Picture Setting	Write	Contrast +	<CR>*con=+#<CR>	N	N	N
	Write	Contrast -	<CR>*con=-#<CR>	N	N	N
	Read	Contrast value	<CR>*con=?#<CR>	N	N	N
	Write	Brightness +	<CR>*bri=+#<CR>	N	N	N
	Write	Brightness -	<CR>*bri=-#<CR>	N	N	N
	Read	Brightness value	<CR>*bri=?#<CR>	N	N	N
	Write	Color +	<CR>*color=+#<CR>	N	N	N
	Write	Color -	<CR>*color=-#<CR>	N	N	N
	Read	Color value	<CR>*color=?#<CR>	N	N	N
	Write	Tint +	<CR>*tint=+#<CR>	N	N	N
	Write	Tint -	<CR>*tint=-#<CR>	N	N	N
	Read	Tint value	<CR>*tint=?#<CR>	N	N	N
	Write	Sharpness +	<CR>*sharp=+#<CR>	N	N	N
	Write	Sharpness -	<CR>*sharp=-#<CR>	N	N	N
	Read	Sharpness value	<CR>*sharp=?#<CR>	N	N	N
	Write	Skin Tone +	<CR>*skintone=+#<CR>	N	N	N
	Write	Skin Tone -	<CR>*skintone=-#<CR>	N	N	N
	Read	Skin Tone value	<CR>*skintone=?#<CR>	N	N	N
	Write	Color Temperature-Low	<CR>*ct=low#<CR>	N	N	N
	Write	Color Temperature-Normal	<CR>*ct=normal#<CR>	N	N	N
	Write	Color Temperature-High	<CR>*ct=high#<CR>	N	N	N
	Read	Color Temperature Status	<CR>*ct=?#<CR>	N	N	N
	Write	Aspect 4:3	<CR>*asp=4:3#<CR>	N	N	N
	Write	Aspect 16:9	<CR>*asp=16:9#<CR>	N	N	N
	Write	Aspect 16:10	<CR>*asp=16:10#<CR>	N	N	N
	Write	Aspect Auto	<CR>*asp=AUTO#<CR>	N	N	N
	Read	Aspect Status	<CR>*asp=?#<CR>	N	N	N
	Write	Overscan Adjustment +	<CR>*overscan=+#<CR>	N	N	N
	Write	Overscan Adjustment -	<CR>*overscan=-#<CR>	N	N	N
	Read	Overscan Adjustment value	<CR>*overscan=?#<CR>	N	N	N
	Write	Auto	<CR>*auto#<CR>	N	N	N
	Write	Red Gain +	<CR>*RGain=+#<CR>	N	N	N
Write	Red Gain -	<CR>*RGain=-#<CR>	N	N	N	
Read	Red Gain value	<CR>*RGain=?#<CR>	N	N	N	
Write	Green Gain +	<CR>*GGain=+#<CR>	N	N	N	
Read	Red Gain value	<CR>*RGain=?#<CR>	N	N	N	
Write	Green Gain +	<CR>*GGain=+#<CR>	N	N	N	

	Write	Green Gain -	<CR>*GGain=-#<CR>	N	N	N
	Read	Green Gain value	<CR>*GGain=?#<CR>	N	N	N
	Write	Blue Gain +	<CR>*BGain=+#<CR>	N	N	N
	Write	Blue Gain -	<CR>*BGain=-#<CR>	N	N	N
	Read	Blue Gain value	<CR>*BGain=?#<CR>	N	N	N
	Write	Red Offset +	<CR>*ROffset=+#<CR>	N	N	N
	Write	Red Offset -	<CR>*ROffset=-#<CR>	N	N	N
	Read	Red Offset value	<CR>*ROffset=?#<CR>	N	N	N
	Write	Green Offset +	<CR>*GOffset=+#<CR>	N	N	N
	Write	Green Offset -	<CR>*GOffset=-#<CR>	N	N	N
	Read	Green Offset value	<CR>*GOffset=?#<CR>	N	N	N
	Write	Blue Offset +	<CR>*BOffset=+#<CR>	N	N	N
	Write	Blue Offset -	<CR>*BOffset=-#<CR>	N	N	N
	Read	Blue Offset value	<CR>*BOffset=?#<CR>	N	N	N
	Write	Gamma Selection-1.8	<CR>*gamma=1.8#<CR>	N	N	N
	Write	Gamma Selection-2.0	<CR>*gamma=2.0#<CR>	N	N	N
	Write	Gamma Selection-2.1	<CR>*gamma=2.1#<CR>	N	N	N
	Write	Gamma Selection-2.2	<CR>*gamma=2.2#<CR>	N	N	N
	Write	Gamma Selection-2.3	<CR>*gamma=2.3#<CR>	N	N	N
	Write	Gamma Selection-2.4	<CR>*gamma=2.4#<CR>	N	N	N
Write	Gamma Selection-2.6	<CR>*gamma=2.6#<CR>	N	N	N	
Write	Gamma Selection-Contrast Priority	<CR>*gamma=CP#<CR>	N	N	N	
Write	Gamma Selection-Brightness Priority	<CR>*gamma=BP#<CR>	N	N	N	
Write	Gamma Selection-HLG	<CR>*gamma=HLG#<CR>	N	N	N	
Read	Gamma Selection Status	<CR>*gamma=?#<CR>	N	N	N	
Operation Settings	Write	Splash Screen -Black	<CR>*splash=black#<CR>	N	N	N
	Write	Splash Screen -Blue	<CR>*splash=blue#<CR>	N	N	N
	Write	Splash Screen Status	<CR>*splash=?#<CR>	N	N	N
	Write	Background Color - Black	<CR>*background=black#<CR>	N	N	N
	Write	Background Color - Blue	<CR>*background=blue#<CR>	N	N	N
	Write	Background Color - Green	<CR>*background=Green#<CR>	N	N	N
	Read	Background Color States	<CR>*background=?#<CR>	N	N	N
	Write	Projector Position-Front	<CR>*pp=FT#<CR>	N	N	N

	Table				
Write	Projector Position-Rear Table	<CR>*pp=RE#<CR>	N	N	N
Write	Projector Position-Rear Ceiling	<CR>*pp=RC#<CR>	N	N	N
Write	Projector Position-Front Ceiling	<CR>*pp=FC#<CR>	N	N	N
Read	Projector Position Status	<CR>*pp=?#<CR>	N	N	N
Write	Quick auto search on/Auto source search on	<CR>*QAS=on#<CR>	N	N	N
Write	Quick auto search off/Auto source search off	<CR>*QAS=off#<CR>	N	N	N
Read	Quick auto search status/Auto source search status	<CR>*QAS=?#<CR>	N	N	N
Write	Menu Display Time -Always On	<CR>*menutime=on#<CR>	N	N	N
Write	Menu Display Time -5 sec	<CR>*menutime=5s#<CR>	N	N	N
Write	Menu Display Time -10 sec	<CR>*menutime=10s#<CR>	N	N	N
Write	Menu Display Time -15 sec	<CR>*menutime=15s#<CR>	N	N	N
Write	Menu Display Time -20 sec	<CR>*menutime=20s#<CR>	N	N	N
Write	Menu Display Time -25 sec	<CR>*menutime=25s#<CR>	N	N	N
Write	Menu Display Time -30 sec	<CR>*menutime=30s#<CR>	N	N	N
Read	Menu Display Time Status	<CR>*menutime=?#<CR>	N	N	N
Write	Menu Position - Center	<CR>*menuposition=center#<CR>	N	N	N
Write	Menu Position - Top-Left	<CR>*menuposition=tl#<CR>	N	N	N
Write	Menu Position - Top-Right	<CR>*menuposition=tr#<CR>	N	N	N
Write	Menu Position - Bottom-Right	<CR>*menuposition=br#<CR>	N	N	N
Write	Menu Position - Bottom-Left	<CR>*menuposition=bl#<CR>	N	N	N

	Read	Menu Position Status	<CR>*menuposition=?#<CR>	N	N	N
	Write	Reminder Message - On	<CR>*reminder=on#<CR>	N	N	N
	Write	Reminder Message - Off	<CR>*reminder=off#<CR>	N	N	N
	Read	Reminder Message Status	<CR>*reminder=?#<CR>	N	N	N
	Write	Direct Power On-on	<CR>*directpower=on#<CR>	N	N	N
	Write	Direct Power On-off	<CR>*directpower=off#<CR>	N	N	N
	Read	Direct Power On-Status	<CR>*directpower=?#<CR>	N	N	N
Lamp Control	Read	Lamp Hour	<CR>*ltim=?#<CR>	N	N	N
	Write	Lamp Hour Reset	<CR>*ltim=reset#<CR>	N	N	N
	Write	Normal mode	<CR>*lampm=lnor#<CR>	N	N	N
	Write	Eco mode	<CR>*lampm=eco#<CR>	N	N	N
	Read	Lamp Mode Status	<CR>*lampm=?#<CR>	N	N	N
Miscellaneous	Read	Model Name	<CR>*modelname=?#<CR>	N	N	N
	Write	Blank On	<CR>*blank=on#<CR>	N	N	N
	Write	Blank Off	<CR>*blank=off#<CR>	N	N	N
	Read	Blank Status	<CR>*blank=?#<CR>	N	N	N
	Write	Menu On	<CR>*menu=on#<CR>	N	N	N
	Write	Menu Off	<CR>*menu=off#<CR>	N	N	N
	Write	Up	<CR>*up#<CR>	N	N	N
	Write	Down	<CR>*down#<CR>	N	N	N
	Write	Right	<CR>*right#<CR>	N	N	N
	Write	Left	<CR>*left#<CR>	N	N	N
	Write	Enter/OK	<CR>*enter#<CR>	N	N	N
	Write	BACK	<CR>*back#<CR>	N	N	N
	Write	Language +	<CR>*lang=+#<CR>	N	N	N
	Write	Language -	<CR>*lang=-#<CR>	N	N	N
	Read	Language Status	<CR>*lang=?#<CR>	N	N	N
	Write	Auto Power off -disable	<CR>*APOFF=DIS#<CR>	N	N	N
	Write	Auto Power off - 5 min	<CR>*APOFF=5#<CR>	N	N	N
	Write	Auto Power off - 10 min	<CR>*APOFF=10#<CR>	N	N	N
	Write	Auto Power off - 15 min	<CR>*APOFF=15#<CR>	N	N	N
	Write	Auto Power off - 20 min	<CR>*APOFF=20#<CR>	N	N	N
	Write	Auto Power off - 25 min	<CR>*APOFF=25#<CR>	N	N	N
	Write	Auto Power off - 30 min	<CR>*APOFF=30#<CR>	N	N	N
	Read	Auto Power off Status	<CR>*APOFF=?#<CR>	N	N	N
	Write	High Altitude mode on	<CR>*Highaltitude=on#<CR>	N	N	N
	Write	High Altitude mode off	<CR>*Highaltitude=off#<CR>	N	N	N
	Read	High Altitude mode status	<CR>*Highaltitude=?#<CR>	N	N	N
Write	Key Lock on	<CR>*keylock=on#<CR>	N	N	N	

	Write	Key Lock off	<CR>*keylock=off#<CR>	N	N	N
	Read	Key Lock status	<CR>*keylock=?#<CR>	N	N	N

(end of document)