

HIGHlite 660 Series Quad Titan Series Titan 800 Series Titan Pro Series 3 Lightning Series

External Control Protocol

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DOCUMENT NO	REV	
112-166	G	SHEET 2

HIGHlite 660 SERIES / QUAD TITAN SERIES TITAN PRO SERIES 3 / LIGHTNING SERIES EXTERNAL CONTROL PROTOCOL

Table of Contents

INTRODUCTION	6
1.0 CONNECTION	7
1.1 LAN CONNECTION	8
1.2 RS232 Connection	9
2.0 PROTOCOL NOTES	10
3.0 COMMANDS	11
3.1 POWER STATUS SET	
3.1.1 LAN Control	
3.1.2 R\$232 Control	12
3.2 POWER STATUS GET	
3.2.1 IAN Control	14
3.2.2 R\$232 Control	
3.3 LAMP MODE SET	
3.3.1 LAN Control	
3.3.2 RS232 Control	
3.4 LAMP MODE GET	
3.4.1 IAN Control	
3.4.2 R\$232 Control	
3.5 LAMP POWER SET	20
3.5.1 IAN Control	20
3 5 2 R\$232 Control	21
3 6 LAMP POWER GET	22
3 6 1 IAN Control	22
3 6 2 R\$232 Control	23
3.7 GAMMA TABLE SET	24
3.7.1 IAN Control	24
3.7.2 R\$232 Control	25
3.8 GAMMA TABLE GET	
3.8.1 IAN Control	26
3.8.2 R\$232 Control	27
3 9 PICTURE MUTE SET	
3.9.1 IAN Control	28
3 9 2 R\$232 Control	29
3.10 Brightness Set	
3 10 1 IAN Control	30
3 10 2 RS232 Control	31
3.11 Brightness Save	
3.11.1 IAN Control	32
3 11 2 RS232 Control	33
3.12 Rightness Get	34
3.12.1 IAN Control	34
3 12 2 R\$232 Control	35
3.13 CONTRAST SET	36
3 13 1 IAN Control	36
3 13 2 RS232 Control	37
3.14 CONTRAST SAVE	
3.14.1 IAN Control	38
3 14 2 R\$232 Control	30
3.15 CONTRAST GET	40
3.15.1 IAN Control	40
3 15 2 R\$232 Control	
5.15.2 K5252 Control	

3.16 IMAGE ORIENTATION SET	42
3.16.1 LAN Control	42
3.16.2 RS232 Control	43
3.18 IMAGE ORIENTATION GET	44
3.18.1 LAN Control	44
3.18.2 RS232 Control	45
3.19 INPUT SELECT SET	46
3.19.1 LAN Control	46
3.19.2 RS232 Control	47
3.20 INPUT SELECT SAVE	48
3.20.1 LAN Control.	48
3.20.2 RS232 Control	49
3.21 INPUT SELECT GET	50
3.21.1 LAN Control	50
3.21.2 RS232 Control	51
3.22 ASPECT RATIO SET	
3.22.1 LAN Control	
3.22.2 RS232 Control	33
3.23 ASPECT KATIO SAVE	54
3.23.1 LAN Control	54
3.23.2 KS232 Control	
2.24 ASPECT KATIO GET	30
2.24.2 DS222 Control	
2 25 COLOUR MODE SET	
3.25 COLOUR MODE SET	30
2 25 2 DS222 Control	
3.26 Colour Mode Cet	
3 26 1 I AN Control	00
3.26.2 R\$232 Control	61
3 27 EDGE RI END SET	62
3.27.1 LAN Control	62
3.27.2 RS232 Control	63
3.28 Edge Blend Save	64
3.28.1 LAN Control	64
3.28.2 RS232 Control	64
3.29 LAMP HOURS GET	65
3.29.1 LAN Control	65
3.29.2 RS232 Control	66
3.30 Segmentation Set	67
3.30.1 LAN Control	67
3.30.2 RS232 Control	68
3.31 SEGMENTATION SAVE	69
3.31.1 LAN Control	69
3.31.2 RS232 Control	69
3.32 3D ENABLE SET	70
3.32.1 LAN Control	70
2.22 2D Extense Cert	/1
3.35 5D ENABLE GET	12
3 33 2 P\$232 Control	73
3 34 3D DAPK TIME SET	74
3 34 1 LAN Control	
3 34 2 RS232 Control	75
3.35 3D DARK TIME GET	76
3.35.1 LAN Control	76
3.35.2 RS232 Control	77
3.36 3D FRAME RATE MULTIPLIER SET	78
3.36.2 RS232 Control	79
3.37 3D FRAME RATE MULTIPLIER GET	80
3.37.1 LAN Control	80

3.37.2 RS232 Control	
3.38 3D Format Set	
3.38.1 LAN Control	
3.38.2 RS232 Control	
3.39 3D Format Get	
3.39.1 LAN Control	
3.39.2 RS232 Control	
3.40 3D Eye Dominance Set	
3.40.1 LAN Control	
3.40.2 RS232 Control	
3.41 3D Eye Dominance Get	
3.41.1 LAN Control	
3.41.2 RS232 Control	
3.42 3D Sync Polarity Set	
3.42.1 LAN Control	
3.42.2 RS232 Control	
3.43 3D Sync Polarity Get	
3.43.1 LAN Control	
3.43.2 RS232 Control	
3.44 MAIN / DVI INPUT CONFIGURATION SET	94
3.44.1 LAN Control	
3.44.2 RS232 Control	
3.45 MAIN / DVI INPUT CONFIGURATION GET	96
3.45.1 LAN Control	
3.45.2 RS232 Control	

DOCUMENT NO	REV	
112-166	G	SHEET 5

Introduction

This protocol document provides instructions for external protocol control of all projector models in the HIGHlite 660, Quad Titan, Titan Pro Series III and Lightning Pro series.

The examples in this document can be cut and pasted, then formatted for use in your control system.

If you need to control a feature not covered in this document please contact Digital Projection directly for assistance.

DOCUMENT NO	REV	
112-166	G	SHEET 6

1.0 Connection

This document describes control protocol over the wired LAN (RJ45) control socket and RS232 control socket.

DOCUMENT NO	REV	
112-166	G	SHEET 7

1.1 LAN Connection

Wired 10/100 BaseT auto negotiating

TCP port number: 30000

The projectors are supplied from the factory with the following default settings:

IP Address: 192.168.0.100 Subnet: 255.255.255.0 DHCP: Off

To change these settings please refer to the projectors Operating Guide.

10BaseT Unshielded Twisted Pair cable

The standard wire colours are as follows:

- 1. White / Orange stripe
- 2. Orange
- 3. White / Green stripe
- 4. Blue
- 5. White / Blue stripe
- 6. Green
- 7. White / Brown stripe
- 8. Brown



top view of cable connector.

Crossed cable: used to connect directly to a computer with no hub or network. (Note that only the green and orange pairs are crossed)

1	White / Orange stripe	White / Green stripe	1
2	Orange	Green	2
3	White / Green stripe	White / Orange stripe	3
4	Blue	Blue	4
5	White / Blue stripe	White / Blue stripe	5
6	Green	Orange	6
7	White / Brown stripe	White / Brown stripe	7
8	Brown	Brown	8

DOCUMENT NO	REV	
112-166	G	SHEET 8

1.2 RS232 Connection

Baud rate: (Scaler Version BL07FW240A0013DP) 115200 (All other Scaler Versions) 9600 Parity: None Stop Bits: 1 Flow Control: None

Use a 'null modem' (crossover) serial cable to connect your computer to the projector.

Early model HL660 projectors (shipped prior to December 2011) need to be connected via a straight-through serial cable. Contact Digital Projection for more information.

Note:

To determine the Scaler Version using the projector menus, navigate to:

Information > Configuration

or

Information > Configuration > Projector

depending on the software version installed in the projector.

DOCUMENT NO	REV	
112-166	G	SHEET 9

2.0 Protocol Notes

Following the transmission of a command, the control system must wait to receive the complete reply before sending a new command.

The data type for all data is raw hexadecimal.

Spaces shown in protocol messages are for visual clarity only and should not be sent as part of the message.

In the examples given, TX indicates data transmitted from the controller to the projector. RX indicates data received by the controller from the projector.

Delays of more than 2 seconds between bytes will result in the protocol command parser resetting and waiting for a new command (the old command will be lost). This feature can be used to recover from partial or malformed commands by delaying for more than 2 seconds before sending the next command.

DOCUMENT NO	REV	
112-166	G	SHEET 10

3.0 Commands

3.1 Power Status Set

Description:

Control projector power.

3.1.1 LAN Control

Examples:

To turn the projector on:

TX:	54 50 23 30 6F	50 46 70 2C 72	01 27 6F 73 2C	00 07 77 79 77	00 00 72 73 72	00 00 2C 74 69	00 00 30 65 74	00 00 2C 6D 65	00 00 30 2C 2C	00 00 2C 70 6F	00 00 30 72 6E	3D 31 2C 6F 0D	00 00 30 6A 00	00 00 2C 65	00 00 30 63	00 2D 2C 74
RX:	74 70 09	50 46 70	01 27 6F	00 07 77	00 00 72	00 00 2C	00 00 41	00 00 43	00 00 4B	0 0 0 0 0 0	00 00	1A 0E	00 00	00 00	00 00	0000

To turn the projector into standby:

- TX: 54 50 01 00 00 00 00 00 00 00 00 42 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 36 00 00 32 23 70 6F 77 72 2C 30 2C 30 2C 30 2C 30 2C 30 2C 30 2C 73 79 73 74 65 6D 2C 70 72 6F 6A 65 63 74 6F 72 2C 77 72 69 74 65 2C 73 74 61 6E 64 62 79 0D 00

DOCUMENT NO	REV	
112-166	G	SHEET 11

3.1.2 RS232 Control

Examples:

To turn the projector on:

TX: 53 41 50 01 FF FF FF FF 00 00 00 4D 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 3D 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 31 00 00 00 2D 23 70 6F 77 72 2C 30 2C 73 79 73 74 65 6D 2C 70 72 6F 6A 65 63 74 6F 72 2C 77 72 69 74 65 2C 6F 6E 0D 00 RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 53 41 50 01 FF FF FF FF 00 00 00 2A 00 00 00 00 74 50 01 00 00 00 00 00 00 00 00 1A 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 0E 00 00 00 00 09 70 6F 77 72 2C 41 43 4B 00 TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

DOCUMENT NO	REV	
112-166	G	SHEET 12

To turn the projector into standby:

TX: 53 41 50 01 FF FF FF FF 00 00 00 52 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 42 00 00 00 50 46 27 07 00 00 00 00 00 00 00 36 00 00 32 23 70 6F 77 72 2C 30 2C 73 79 73 74 65 6D 2C 70 72 6F 6A 65 63 74 6F 72 2C 77 72 69 74 65 2C 73 74 61 6E 64 62 79 0D 00 RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 53 41 50 01 FF FF FF FF 00 00 00 2A 00 00 00 00 74 50 01 00 00 00 00 00 00 00 00 1A 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 0E 00 00 00 00 09 70 6F 77 72 2C 41 43 4B 00 TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

DOCUMENT NO	REV	
112-166	G	SHEET 13

3.2 Power Status Get

Description:

Request current power status of projector.

3.2.1 LAN Control

Examples:

Request power status:

00
2В
2C
74
00
00
00
(

Indicates projector is on.

Request power status:

54	50	01	00	00	00	00	00	00	00	00	3B	00	00	00	00
50	46	27	07	00	00	00	00	00	00	00	2F	00	00	00	2В
23	70	6F	77	72	2C	30	2C	30	2C	30	2C	30	2C	30	2C
30	2C	73	79	73	74	65	6D	2C	70	72	6F	бA	65	63	74
бF	72	2C	72	65	61	64	2C	31	0D	00					
	54 50 23 30 6F	 54 50 46 23 70 30 2C 6F 72 	54500150462723706F302C736F722C	545001005046270723706F77302C73796F722C72	5450010000504627070023706F7772302C7379736F722C7265	545001000050462707000023706F77722C302C737973746F722C726561	5450010000005046270700000023706F77722C30302C73797374656F722C72656164	5450010000000000504627070000000023706F77722C302C302C73797374656D6F722C726561642C	545001000000000050462707000000000023706F77722C302C30302C73797374656D2C6F722C726561642C31	54500100000000000000504627070000000000000023706F77722C302C302C302C73797374656D2C706F722C726561642C310D	54 50 01 00 <td< th=""><th>54 50 01 00 00 00 00 00 00 00 3B 50 46 27 07 00 00 00 00 00 00 00 2F 23 70 6F 77 72 2C 30 2C 30 2C 30 2C 30 2C 73 79 73 74 65 6D 2C 70 72 6F 6F 72 2C 72 65 61 64 2C 31 0D 00</th><th>54 50 01 00 00 00 00 00 00 00 3B 00 50 46 27 07 00 00 00 00 00 00 00 20 20 20 25 00 23 70 6F 77 72 2C 30 2C 30 2C 30 2C 30 30 2C 73 79 73 74 65 6D 2C 70 72 6F 6A 6F 72 2C 72 65 61 64 2C 31 0D 00 V</th><th>54 50 01 00 00 00 00 00 00 00 3B 00 00 50 46 27 07 00 00 00 00 00 00 00 20 20 00 00 00 00 00 27 00 00 00 00 00 00 00 28 00 00 23 70 6F 77 72 2C 30 30 30 30 <</th><th>54 50 01 00 00 00 00 00 00 3B 00 00 00 50 46 27 07 00 00 00 00 00 00 00 2F 00 00 00 23 70 6F 77 72 2C 30 2C <</th></td<>	54 50 01 00 00 00 00 00 00 00 3B 50 46 27 07 00 00 00 00 00 00 00 2F 23 70 6F 77 72 2C 30 2C 30 2C 30 2C 30 2C 73 79 73 74 65 6D 2C 70 72 6F 6F 72 2C 72 65 61 64 2C 31 0D 00	54 50 01 00 00 00 00 00 00 00 3B 00 50 46 27 07 00 00 00 00 00 00 00 20 20 20 25 00 23 70 6F 77 72 2C 30 2C 30 2C 30 2C 30 30 2C 73 79 73 74 65 6D 2C 70 72 6F 6A 6F 72 2C 72 65 61 64 2C 31 0D 00 V	54 50 01 00 00 00 00 00 00 00 3B 00 00 50 46 27 07 00 00 00 00 00 00 00 20 20 00 00 00 00 00 27 00 00 00 00 00 00 00 28 00 00 23 70 6F 77 72 2C 30 30 30 30 <	54 50 01 00 00 00 00 00 00 3B 00 00 00 50 46 27 07 00 00 00 00 00 00 00 2F 00 00 00 23 70 6F 77 72 2C 30 2C <

RX: 74 50 01 00 00 00 00 00 00 00 00 22 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 16 00 00 00 11 70 6F 77 72 2C 41 43 4B 2C 73 74 61 6E 64 62 79 00

Indicates projector is in standby.

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DOCUMENT NO	REV	
112-166	G	SHEET 14

3.2.2 RS232 Control

Examples:

Request power status:

TX: 53 41 50 01 FF FF FF FF 00 00 00 4B 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 3B 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 2F 00 00 00 2B 23 70 6F 77 72 2C 30 2C 30 2C 30 2C 30 2C 30 2C30 2C 73 79 73 74 65 6D 2C 70 72 6F 6A 65 63 74 бF 72 2C 72 65 61 64 2C 31 0D 00 RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 53 41 50 01 FF FF FF FF00 00 00 2D 00 00 00 00 74 50 01 00 00 00 00 00 00 00 00 1D 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 11 00 00 00 00 OC 70 6F 77 72 2C 41 43 4B 2C 6F 6E 00 TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

Indicates projector is on.

Request power status:

- TX:
 53
 41
 50
 01
 FF
 FF
 FF
 00
 00
 00
 4B
 00
 00
 00
 00
 00

 54
 50
 01
 00
 00
 00
 00
 00
 00
 00
 3B
 00
 00
 00
 00

 50
 46
 27
 07
 00
 00
 00
 00
 00
 00
 2F
 00
 00
 00
 2B

 23
 70
 6F
 77
 72
 2C
 30
 2C
- RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 53 41 50 01 FF FF FF FF 00 00 00 32 00 00 00 00 74 50 01 00 00 00 00 00 00 00 00 22 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 16 00 00 00 11 70 6F 77 72 2C 41 43 4B 2C 73 74 61 6E 64 62 79 00

TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

Indicates projector is in standby.

DOCUMENT NO	REV	
112-166	G	SHEET 15

3.3 Lamp Mode Set

Description:

Sets lamp mode.

Lamp mode can be one of the following values:

HL660 series / Titan Pro Series III / Titan 800 Series projectors:



Quad Titan series projectors:



Note:

Only available on multi-lamp based projector models.

3.3.1 LAN Control

Example:

Set lamp mode to dual lamp (HL660 / Titan Pro Series III /Titan 800 Series): Set lamp mode to all 4 lamps (Quad Titan):

TX:	54	50	01	00	00	00	00	00	00	00	00	3A	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2E	00	00	00	2A
	23	6C	61	6D	70	4D	бF	64	65	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	6C	70	73	75	2C	6D	6F	64	65	2C
	77	72	69	74	65	2C	30	30	0D	00						
RX:	74	50	01	00	00	00	00	00	00	00	00	1E	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	12	00	00	00	00
	0D	6C	61	6D	70	4D	6F	64	65	2C	41	43	4B	00		

DOCUMENT NO	REV	
112-166	G	SHEET 16

3.3.2 RS232 Control

Example:

Set lamp mode to dual lamp (HL660 / Titan Pro Series III /Titan 800 Series): Set lamp mode to all 4 lamps (Quad Titan):

TX: 53 41 50 01 FF FF FF FF 00 00 00 4A 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 3A 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 2E 00 00 00 2A 23 6C 61 6D 70 4D 6F 64 65 2C 30 2C 30 2C 30 2C 2C 30 2C 6C 70 73 75 30 2C 30 2C 6D 6F 64 65 2C 77 72 69 74 65 2C 30 30 0D 00 RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 53 41 50 01 FF FF FF FF 00 2E 00 00 00 00 00 00 74 50 01 00 00 00 00 00 00 00 00 1E 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 12 00 00 00 00 OD 6C 61 6D 70 4D 6F 64 65 2C 41 43 4B 00 TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

DOCUMENT NO	REV	
112-166	G	SHEET 17

3.4 Lamp Mode Get

Description:

Gets current lamp mode status.

Lamp mode can be one of the following values:

HL660 series / Titan Pro Series III / Titan 800 Series projectors:



Quad Titan series projectors:



Note:

Only available on multi-lamp based projector models.

3.4.1 LAN Control

Example:

Get lamp mode status:

TX:	54	50	01	00	00	00	00	00	00	00	00	39	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2D	00	00	00	29
	23	6C	70	73	75	5F	6D	бF	64	65	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	30	2C	6C	70	73	75	2C	6D	6F	64	65
	2C	72	65	61	64	2C	31	0D	00							
RX:	74	50	01	00	00	00	00	00	00	00	00	21	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	15	00	00	00	00
	10	бC	70	73	75	5F	6D	бF	64	65	2C	41	43	4B	2C	32
	00															

Indicates lamp mode is single lamp 2 (HL660 / Titan Pro Series III) / 2 lamps (Quad Titan).

-		
DOCUMENT NO	REV	
112-166	G	SHEET 18

3.4.2 RS232 Control

Example:

Get lamp mode status:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	49	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	39	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2D	00	00	00	29
	23	6C	70	73	75	5F	6D	6F	64	65	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	30	2C	6C	70	73	75	2C	6D	6F	64	65
	2C	72	65	61	64	2C	31	0D	00							
RX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	00	00	00	31	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	21	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	15	00	00	00	00
	10	6C	70	73	75	5F	бD	бF	64	65	2C	41	43	4B	2C	32
	00															
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

Indicates lamp mode is single lamp 2 (HL660 / Titan Pro Series III / Titan 800 Series) Indicates lamp mode is 2 lamps (Quad Titan)

DOCUMENT NO	REV	
112-166	G	SHEET 19

3.5 Lamp Power Set

Description:

Sets lamp power.

Note:

The lamp power can be any value between 1h and 64h (1% to 100%). Values less than the permitted lowest power will set the lowest power, not the value sent.

The lowest permitted power is projector model dependent.

3.5.1 LAN Control

Example:

Set lamp power to 100%:

TX:	54	50	01	00	00	00	00	00	00	00	00	3D	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	31	00	00	00	2D
	23	6C	70	73	75	5F	70	бF	77	65	72	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	30	2C	6C	70	73	75	2C	70	бF	77
	65	72	2C	77	72	69	74	65	2C	36	34	0D	00			

36 34 = ASCII representation of 64 (64 = hexadecimal representation of 100%)

DOCUMENT NO	REV	
112-166	G	SHEET 20

3.5.2 RS232 Control

Example:

Set lamp power to 100%:

- TX: 53 41 50 01 FF FF FF FF 00 00 00 4D 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 3D 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 31 00 00 00 2D 23 6C 70 73 75 5F 70 6F 77 65 72 2C 30 2C 30 2C 30 2C 30 2C 30 2C 30 2C 6C 70 73 75 2C 70 6F 77 65 72 2C 77 72 69 74 65 2C 36 34 0D 00
 - 36 34 = ASCII representation of 64 (64 = hexadecimal representation of 100%)

RX:	73	61	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	30	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	20	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	14	00	00	00	00
	0F	6C	70	73	75	5F	70	бF	77	65	72	2C	41	43	4B	00
TV.	ч २	C 1	ГO	0.1					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IA:	13	ът	50	υL	F F.	F F.	Ь Ъ.	Ь Ъ.	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 21

3.6 Lamp Power Get

Description:

Gets lamp power.

3.6.1 LAN Control

Example:

Get lamp power:

TX:	54	50	01	00	00	00	00	00	00	00	00	3B	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2F	00	00	00	2В
	23	6C	70	73	75	5F	70	6F	77	65	72	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	30	2C	6C	70	73	75	2C	70	бF	77
	65	72	2C	72	65	61	64	2C	31	0D	00					
RX:	74	50	01	00	00	00	00	00	00	00	00	23	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	17	00	00	00	00
	12	6C	70	73	75	5F	70	6F	77	65	72	2C	41	43	4B	2C
	35	30	00													
	35	30	= 1	ASC	II rep	orese	ntati	on o	f 50			0.004				

(50 = hexadecimal representation of 80%)

Indicates the lamp power is set to 80%.

DOCUMENT NO	REV	
112-166	G	SHEET 22

3.6.2 RS232 Control

Example:

Get lamp power:

TX:	53	41	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	00	00	00	4B	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	3B	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2F	00	00	00	2в
	23	6C	70	73	75	5F	70	бF	77	65	72	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	30	2C	6C	70	73	75	2C	70	бF	77
	65	72	2C	72	65	61	64	2C	31	0D	00					
RX:	73	61	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	00	00	00	33	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	23	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	17	00	00	00	00
	12	6C	70	73	75	5F	70	6F	77	65	72	2C	41	43	4B	2C
	36	34	00													
тх∙	73	61	50	01	ਸ਼ਾਹ	ਸ਼ਾਹ	ਸ਼ਾਹ	ਸ਼ਾਹ	0.0	0.0	00	0.0	00	00	0.0	00
171.	15	ΟT	50	ΟŢ	L L	L L	L L	L L	00	00	00	00	00	00	00	00
	36	34	= /	ASC	II rep	orese	ntati	on o	f 64							
			(64 =	hex	adec	imal	repr	esen	tatio	n of	100%	6)			
								-								

Indicates the lamp power is set to 100%

DOCUMENT NO	REV	
112-166	G	SHEET 23

3.7 Gamma Table Set

Description:

Sets gamma table.

Gamma table can be one of the following values:



3.7.1 LAN Control

Example:

Set gamma to 2.4:

TX:	54	50	01	00	00	00	00	00	00	00	00	42	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	36	00	00	00	32
	23	64	65	67	61	6D	6D	61	2C	30	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	69	6D	61	67	65	2C	64	65	67	61	6D
	6D	61	73	65	6C	65	63	74	2C	77	72	69	74	65	2C	34
	0D	00														
RX:	74	50	01	00	00	00	00	00	00	00	00	1D	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	11	00	00	00	00
	0C	64	65	67	61	6D	6D	61	2C	41	43	4B	00			

DOCUMENT NO	REV	
112-166	G	SHEET 24

3.7.2 RS232 Control

Example:

Set gamma to 2.4:

53 41 50 01 FF FF FF FF 00 00 00 52 00 00 00 00 TX: 54 50 01 00 00 00 00 00 00 00 00 42 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 36 00 00 32 23 64 65 67 61 6D 6D 61 2C 30 2C 30 2C 30 2C 30 2C 30 2C 30 2C 69 6D 61 67 65 2C 64 65 67 61 6D 6D 61 73 65 6C 65 63 74 2C 77 72 69 74 65 2C 34 0D 00 RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 53 41 50 01 FF FF FF FF 00 00 00 2D 00 00 00 00 74 50 01 00 00 00 00 00 00 00 1D 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 11 00 00 00 00 OC 64 65 67 61 6D 6D 61 2C 41 43 4B 00 TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

DOCUMENT NO	REV	
112-166	G	SHEET 25

3.8 Gamma Table Get

Description:

Get gamma table.

Gamma table can be one of the following values:



3.8.1 LAN Control

Example:

Get current gamma table:

50 46 27 07 00 00 00 00 00 00 00 35 00 00	00 31
23 64 65 67 61 6D 6D 61 2C 30 2C 30 2C 30	2C 30
2C 30 2C 30 2C 69 6D 61 67 65 2C 64 65 67	61 6D
6D 61 73 65 6C 65 63 74 2C 72 65 61 64 2C	31 OD
00	
RX: 74 50 01 00 00 00 00 00 00 00 00 1F 00 00	00 00
70 46 27 07 00 00 00 00 00 00 00 13 00 00	00 00
0E 64 65 67 61 6D 6D 61 2C 41 43 4B 2C <mark>30</mark>	00

Indicates gamma is set to 1.0

DOCUMENT NO	REV	
112-166	G	SHEET 26

3.8.2 RS232 Control

Example:

Get current gamma table:

TX:	73	61	50	01	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	51	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	41	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	35	00	00	00	31
	23	64	65	67	61	6D	6D	61	2C	30	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	69	6D	61	67	65	2C	64	65	67	61	6D
	6D	61	73	65	6C	65	63	74	2C	72	65	61	64	2C	30	0D
	00															
RX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	00	00	00	2F	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1F	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	13	00	00	00	00
	0E	64	65	67	61	бD	6D	61	2C	41	43	4B	2C	32	00	
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
Indicat	indicates gamma is set to 1.0															

DOCUMENT NOREV112-166GSHEET 27

3.9 Picture Mute Set

Description:

Mute or unmute the projected image.

Note:

There is no Picture Mute Get command.

3.9.1 LAN Control

Examples:

Turn picture mute on:

TX:	54	50	01	00	00	00	00	00	00	00	00	3D	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	31	00	00	00	2D
	23	70	69	63	6D	75	74	65	2C	30	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	69	6D	61	67	65	2C	70	69	63	6D	75
	74	65	2C	77	72	69	74	65	2C	бF	бE	0D	00			
RX:	74 70	50 46	01 27	00	00	00	00	00	00	00	00	1D 11	00	00	00	00
	0C	70	69	63	6D	75	74	65	2C	41	43	4B	00	00	00	00

Turn picture mute off:

- TX: 54 50 01 00 00 00 00 00 00 00 00 3E 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 32 00 00 00 2E 23 70 69 63 6D 75 74 65 2C 30 2C 30 2C 30 2C 30 2C 30 2C 30 2C 69 6D 61 67 65 2C 70 69 63 6D 75 74 65 2C 77 72 69 74 65 2C 6F 66 66 0D 00
- RX: 74 50 01 00 00 00 00 00 00 00 00 1D 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 11 00 00 00 00 0C 70 69 63 6D 75 74 65 2C 41 43 4B 00

DOCUMENT NO	REV	
112-166	G	SHEET 28

3.9.2 RS232 Control

Examples:

Turn picture mute on:

Turn picture mute off:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	4E	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	3E	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	32	00	00	00	2E
	23	70	69	63	6D	75	74	65	2C	30	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	69	бD	61	67	65	2C	70	69	63	бD	75
	74	65	2C	77	72	69	74	65	2C	6F	66	66	0D	00		
RX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	2D	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1D	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	11	00	00	00	00
	0C	70	69	63	6D	75	74	65	2C	41	43	4B	00			
TX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 29

3.10 Brightness Set

Description:

Sets brightness.

Brightness range 0000h - FFFFh, mid point 7FFFh.

Note:

This data is not persistent between power cycles unless followed by a *Brightness Save* command.

3.10.1 LAN Control

Example:

Set brightness to 7FFFh:

TX:	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	00	68	00	00	00	00	00	00	00	04	7F	\mathbf{FF}	FF	FF
RX:	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	00	68	00	00	00	00	00	00	00	01	00			

DOCUMENT NO	REV	
112-166	G	SHEET 30

3.10.2 RS232 Control

Example:

Set brightness to 7FFFh:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	20	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	00	68	00	00	00	00	00	00	00	04	7F	\mathbf{FF}	\mathbf{FF}	FF
RX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	00	00	00	1D	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	00	68	00	00	00	00	00	00	00	01	00			
TX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 31

3.11 Brightness Save

3.11.1 LAN Control

Example:

Save brightness:

TX:	54	50	01	00	00	00	00	00	00	00	00	0C	00	00	00	00
	50	46	00	7A	00	00	00	00	00	00	00	00				
RX:	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	00	7A	00	00	00	00	00	00	00	01	00			

DOCUMENT NO	REV	
112-166	G	SHEET 32

3.11.2 RS232 Control

Example:

Save brightness:

TX:	53 54 50	41 50 46	50 01 00	01 00 7A	FF 00 00	FF 00 00	FF 00 00	FF 00 00	00 00 00	00 00 00	00 00 00	1C 0C 00	00 00	00 00	00 00	0 0 0 0
TX:	73 53 74 70	61 41 50 46	50 50 01 00	01 01 00 7A	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00 1D 0D 01	00 00 00 00	00 00 00	0 0 0 0 0 0	0 0 0 0 0 0
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 33

3.12 Brightness Get

Description:

Gets brightness.

Brightness range 0000h - FFFFh, mid point 7FFFh.

3.12.1 LAN Control

Example:

Get current brightness:

TX:	54	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	50	46	00	7B	00	00	00	00	00	00	00	01	00			
RX:	74 70	50 46	01 00	00 7B	00 00	11 05	00 00	00 7f	00 FF	00 FF						
	\mathbf{FF}															

Indicates current brightness is set to 7FFFh.

I	DOCUMENT NO	PEV	
	112-166	G	SHEET 34
		-	

3.12.2 RS232 Control

Example:

Get current brightness:

TX:	53 54 50	41 50 46	50 01 00	01 00 7B	FF 00 00	FF 00 00	FF 00 00	FF 00 00	00 00 00	00 00 00	00 00 00	1D 0D 01	00 00 00	00 00	0 0 0 0	0 0 0 0
RX:	73 53 74	61 41 50	50 50 01	01 01 00 7D	FF FF 00	FF FF 00	FF FF 00	FF FF 00	0000000	000000000000000000000000000000000000000	0000000	00 21 11	000000000000000000000000000000000000000	00 00 00	0 0 0 0 0 0	00 00 00
	70 FF	40	00	/В	00	00	00	00	00	00	00	05	00	/	FF	ΓΓ
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

Indicates current brightness is set to 7FFFh.

-			
Γ	DOCUMENT NO	REV	
	112-166	G	SHEET 35

3.13 Contrast Set

Description:

Sets contrast.

Contrast range 0000h - FFFFh, mid point 7FFFh.

Note:

This data is not persistent between power cycles unless followed by a *Contrast Save* command.

3.13.1 LAN Control

Example:

Set contrast to 7FFFh:

TX:	54	50	01	00	0 0	0 0	00	00	00	0 0	0 0	10	00	00	00	00
	50	46	00	7C	0 0	0 0	00	00	00	0 0	0 0	04	7f	FF	FF	FF
RX:	74 70	50 46	01 00	00 7C	00	00	00 00	00 00	00	00	00	0D 01	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 36
3.13.2 RS232 Control

Example:

Set contrast to 7FFFh:

	00 00
0 00	00 00
F FF	FF FF
0 00	00 00
0 00	00 00
0 00	00 00
0	
0 00	00 00
	0 00 F FF 0 00 0 00 0 00 0 00 0 00 0 00

DOCUMENT NO	REV	
112-166	G	SHEET 37

3.14 Contrast Save

3.14.1 LAN Control

Example:

Save contrast:

 TX:
 54
 50
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DOCUMENT NO	REV	
112-166	G	SHEET 38

3.14.2 RS232 Control

Example:

Save contrast:

TX:	53 54	41 50	50 01	01 00	FF 00	FF 00	FF 00	FF 00	00 00	00 00	00 00	1C 0C	00 00	00 00	00 00	00 00
	50	46	00	7D	00	00	00	00	00	00	00	00				
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	1D	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	00	7D	00	00	00	00	00	00	00	01	00			
TX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 39

3.15 Contrast Get

Description:

Gets contrast.

Brightness range 0000h – FFFFh, mid point 7FFFh.

3.15.1 LAN Control

Example:

Get current contrast level:

TX:	50	46	00	7E	00	00	00	00	00	00	00	01	00			
	54	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
RX:	74 70	50 46	01	00 7 F	00	00	00	00	00	00	00	11 05	00	00 7F	00	00 דד
	FF	10	00	1	00	00	00	00	00	00	00	05	00	1 Т.	L. L.	T. T.

Indicates current contrast is set to 7FFFh.

DOCUMENT NO	REV	
112-166	G	SHEET 40

3.15.2 RS232 Control

Example:

Get current contrast level:

TX:	53 54 50	41 50 46	50 01 00	01 00 7E	FF 00 00	FF 00 00	FF 00 00	FF 00 00	00 00 00	00 00 00	00 00 00	1D 0D 01	00 00 00	00 00	0000	00 00
RX:	73 53 74 70 FF	61 41 50 46	50 50 01 00	01 01 00 7E	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00 21 11 05	00 00 00 00	00 00 00 7F	00 00 00 FF	00 00 00 FF
TX:	36	15	00	1F	FF	FF	FF	FO	00	00	00	00	00	00	00	00

Indicates current contrast is set to 7FFFh.

DOCUMENT NO	REV	
112-166	G	SHEET 41

3.16 Image Orientation Set

Description:

Sets image orientation.

Image orientation can be one of the following values:

30 30 – Desktop Front 30 31 – Desktop Rear 30 32 – Ceiling Front 30 33 – Ceiling Rear

3.16.1 LAN Control

Example:

Set orientation to ceiling front:

TX:	54	50	01	00	00	00	00	00	00	00	00	40	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	34	00	00	00	30
	23	бF	72	69	65	бE	74	2C	30	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	69	6D	61	67	65	2C	69	бD	61	67	65	бF
	72	69	65	6E	74	2C	77	72	69	74	65	2C	30	32	0D	00
RX:	74	50	01	00	00	00	00	00	00	00	00	1D	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0D	00	00	00	00
	0B	бF	72	69	65	бE	74	2C	41	43	4B	00				

DOCUMENT NO	REV	
112-166	G	SHEET 42

3.16.2 RS232 Control

Example:

Set orientation to ceiling front:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	50	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	40	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	34	00	00	00	30
	23	6F	72	69	65	бE	74	2C	30	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	69	бD	61	67	65	2C	69	6D	61	67	65	бF
	72	69	65	6E	74	2C	77	72	69	74	65	2C	30	32	0D	00
RX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1D	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0D	00	00	00	00
	0B	бF	72	69	65	бE	74	2C	41	43	4B	00				
TX:	73	61	50	01	FF	FF	FF	\mathbf{FF}	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 43

3.18 Image Orientation Get

Description:

Gets image orientation.

Image orientation can be one of the following values:

30 30	- Desktop Front
30 31	– Desktop Rear
30 32	- Ceiling Front
30 33	 Ceiling Rear

3.18.1 LAN Control

Example:

Get current image orientation:

| TX: | 54
50 | 50
46 | 01
00 | 00
8A | 00
00 | 0D
01 | 00
00 | 00 | 00 | 00 |
|-----|----------------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|----------|------------|------------|------------|----------|
| RX: | 74
70
03 | 50
46 | 01
00 | 00
8A | 0 0
0 0 | 11
05 | 0 0
0 0 | 0 0
0 0 | 0 0
0 0 | 00
00 |

Indicates current orientation is ceiling rear.

DOCUMENT NO	REV	
112-166	G	SHEET 44

3.18.2 RS232 Control

Example:

Get current image orientation:

TX:	53	41	50	01	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	00	00	1D	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	50	46	00	8A	00	00	00	00	00	00	00	01	00			
TX:	73	61	50	01	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	00	00	21	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	11	00	00	00	00
	70	46	00	8A	00	00	00	00	00	00	00	05	00	00	00	00
	03															
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

Indicates current orientation is ceiling rear.

DOCUMENT NO	REV	
112-166	G	SHEET 45

3.19 Input Select Set

Description:

Sets input selection.

Input selection can be one of the following values:



3D capable models also allow the following values:



Note:

This data is not persistent between power cycles unless followed by an *Input Select Save* command.

3.19.1 LAN Control

Example:

Set input selection to DVI:

TX:	54	50	01	00	00	0 0	00	00	00	00	00	10	00	00	00	00
	50	46	01	3E	00	0 0	00	00	00	00	00	04	00	00	00	06
RX:	74 70	50 46	01 01	00 3E	0 0 0 0	0D 01	0 0 0 0	00	00	00						

DOCUMENT NO	REV	
112-166	G	SHEET 46

3.19.2 RS232 Control

Example:

Set input selection to DVI:

TX:	53 54 50	41 50 46	50 01 01	01 00 3E	FF 00 00	FF 00 00	FF 00 00	FF 00 00	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	20 10 40	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	00 00 06
RX:	73 53 74 70	61 41 50 46	50 50 01 01	01 01 00 3E	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00 1D 0D 01	0 0 0 0 0 0 0 0	00 00 00	0 0 0 0 0 0	0 0 0 0 0 0
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 47

3.20 Input Select Save

3.20.1 LAN Control

Example:

Save input selection:

TX:	54	50	01	00	00	00	00	00	00	00	00	0C	00	00	00	00
	50	46	01	3F	00	00	00	00	00	00	00	00				
RX:	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	01	3F	00	00	00	00	00	00	00	01	00			

DOCUMENT NO	REV	
112-166	G	SHEET 48

3.20.2 RS232 Control

Example:

Save input selection:

TX:	53 54 50	41 50 46	50 01 01	01 00 3F	FF 00 00	FF 00 00	FF 00 00	FF 00 00	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1C 0C 00	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
RX:	73 53 74 70	61 41 50 46	50 50 01 01	01 01 00 3F	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00 1D 0D 01	00 00 00 00	00 00 00	0 0 0 0 0 0	00 00 00
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 49

3.21 Input Select Get

Description:

Gets input selection.

Input selection can be one of the following values:



3D capable models also allow the following values:



3.21.1 LAN Control

Example:

Get current input selection:

TX:	54 50	50 46	01 01	00 40	0 0 0 0	0 0 0 0	00 00	00 00	0 0 0 0	0 0 0 0	00 00	0D 01	00 00	00	00	00
RX:	74 70 03	50 46	01 01	00 40	0 0 0 0	0 0 0 0	0 0 0 0	00 00	0 0 0 0	0 0 0 0	0 0 0 0	11 05	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0

08 – Test Pattern

Indicates current input is component.

DOCUMENT NO	REV	
112-166	G	SHEET 50

3.21.2 RS232 Control

Example:

Get current input selection:

TX:	53	41	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	00	00	00	1D	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	50	46	01	40	00	00	00	00	00	00	00	01	00			
RX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	21	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	11	00	00	00	00
	70	46	01	40	00	00	00	00	00	00	00	05	00	00	00	00
	03															
TX:	73	61	50	01	FF	FF	\mathbf{FF}	FF	00	00	00	00	00	00	00	00
T 11																
Indiant	00 01	10000	+ 100	111 10	0010	non	ant									

Indicates current input is component.

-		
DOCUMENT NO	REV	
112-166	G	SHEET 51

3.22 Aspect Ratio Set

Description:

Sets aspect ratio.

Aspect ratio can be one of the following values:



Notes:

This data is not persistent between power cycles unless followed by an Aspect Ratio Save command.

TheaterScope is only avalable on projectors with Scaler software BL07 FW 2-5-0J 0174 DP or later installed.

3.22.1 LAN Control

Example:

Set aspect ratio to full screen:

TX:	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	00	BA	00	00	00	00	00	00	00	04	00	00	00	01
RX:	74 70	50 46	01 00	00 BA	00 00	0D 01	00 00	00	00	00						

DOCUMENT NO	REV	
112-166	G	SHEET 52

3.22.2 RS232 Control

Example:

Set aspect ratio to full screen:

TX:	53	41	50	01	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	20	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	00	BA	00	00	00	00	00	00	00	04	00	00	00	01
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	1D	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	00	BA	00	00	00	00	00	00	00	01	00			
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 53

3.23 Aspect Ratio Save

Example:

Save aspect ratio:

3.23.1 LAN Control

DOCUMENT NO	REV	
112-166	G	SHEET 54

3.23.2 RS232 Control

Example:

Save aspect ratio:

TX:	53 54 50	41 50 46	50 01 00	01 00 BB	FF 00 00	FF 00 00	FF 00 00	FF 00 00	0 0 0 0 0 0	0 0 0 0 0 0	00 00 00	1C 0C 00	00 00	0 0 0 0	0 0 0 0	0 0 0 0
RX:	73 53 74 70	61 41 50 46	50 50 01 00	01 01 00 BB	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 1D 0D 01	00 00 00 00	00 00 00	0 0 0 0 0 0	00 00 00
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 55

3.24 Aspect Ratio Get

Description:

Gets aspect ratio.

Aspect ratio can be one of the following values:



Note:

TheaterScope is only avalable on projectors with Scaler software BL07 FW 2-5-0J 0174 DP or later installed.

3.24.1 LAN Control

Example:

Get current aspect ratio:

| TX: | 54
50 | 50
46 | 01
00 | 00
BC | 00
00 | 0D
01 | 00
00 | 00 | 00 | 00 |
|-----|-----------------------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|----------|------------|------------|------------|------------|
| RX: | 74
70
02 | 50
46 | 01
00 | 00
BC | 0 0
0 0 | 11
05 | 0 0
0 0 | 0 0
0 0 | 0 0
0 0 | 0 0
0 0 |

Indicates that the current aspect ratio is crop.

DOCUMENT NO	REV	
112-166	G	SHEET 56

3.24.2 RS232 Control

Example:

Get current aspect ratio:

TX:	53	41	50	01	FF	FF	FF	FF	00	00	00	1D	00	00	00	00
	54 50	50 46	00	BC	00	00	00	00	00	00	00	0D 01	00	00	00	00
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	21	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	11	00	00	00	00
	70	46	00	BC	00	00	00	00	00	00	00	05	00	00	00	00
	02															
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

Indicates that the current aspect ratio is crop.

-		
DOCUMENT NO	REV	
112-166	G	SHEET 57

3.25 Colour Mode Set

Description:

Sets colour mode.

Colour mode can be one of the following values:



3.25.1 LAN Control

Example:

Set colour mode to HDTV:

TX:	54	50	01	00	00	00	00	00	00	00	00	43	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	37	00	00	00	33
	23	70	37	74	61	62	6C	65	2C	30	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	69	6D	61	67	65	2C	70	37	74	61	62
	6C	65	73	65	6C	65	63	74	2C	77	72	69	74	65	2C	30
	31	0D	00													
RX:	74	50	01	00	00	00	00	00	00	00	00	1D	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	11	00	00	00	00
	0C	70	37	74	61	62	6C	65	2C	41	43	4B	00			

DOCUMENT NO	REV	
112-166	G	SHEET 58

3.25.2 RS232 Control

Example:

Set colour mode to 5400K:

TX: 53 41 50 01 FF FF FF FF 00 00 00 53 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 43 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 37 00 00 033 23 70 37 74 61 62 6C 65 2C 30 2C 30 2C 30 2C 30 2C 30 2C 30 2C 69 6D 61 67 65 2C 70 37 74 61 62 6C 65 73 65 6C 65 63 74 2C 77 72 69 74 65 2C 30 34 OD 00 RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 53 41 50 01 FF FF FF FF 00 00 00 2D 00 00 00 00 74 50 01 00 00 00 00 00 00 00 1D 00 00 00 00 70 46 27 07 00 00 00 00 00 00 00 11 00 00 00 00 OC 70 37 74 61 62 6C 65 2C 41 43 4B 00 TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

DOCUMENT NO	REV	
112-166	G	SHEET 59

3.26 Colour Mode Get

Description:

Gets colour mode.

Colour mode can be one of the following values:



3.26.1 LAN Control

Example:

Get current colour mode:

TX:	54	50	01	00	00	00	00	00	00	00	00	41	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	35	00	00	00	31
	23	70	37	74	61	62	6C	65	2C	30	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	69	6D	61	67	65	2C	70	37	74	61	62
	6C 00	65	73	65	6C	65	63	74	2C	72	65	61	64	2C	31	0D
RX:	74 70 0F	50 46 70	01 27 37	00 07 74	00 00 61	00 00 62	00 00 6C	00 00 65	00 00 2C	00 00 41	00 00 43	20 14 4B	00 00 2C	00 00 30	00 00 37	0 0 0 0 0 0

Indicates that the current colour mode is set to 9000K.

DOCUMENT NO	REV	
112-166	G	SHEET 60

3.26.2 RS232 Control

Example:

Get current colour mode:

TX:	53	41	50	01	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	00	00	51	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	41	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	35	00	00	00	31
	23	70	37	74	61	62	6C	65	2C	30	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	69	6D	61	67	65	2C	70	37	74	61	62
	6C	65	73	65	6C	65	63	74	2C	72	65	61	64	2C	31	0D
	00															
RX:	73	61	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	\mathbf{FF}	00	00	00	30	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	20	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	14	00	00	00	00
	0F	70	37	74	61	62	6C	65	2C	41	43	4B	2C	30	37	00
	0F	70	37	74	61	62	6C	65	2C	41	43	4B	2C	30	37	00
TX:	0F 73	70 61	37 50	74 01	61 FF	62 FF	6C FF	65 FF	2C 00	41 00	43 00	4B 00	2C 00	30 00	37 00	00

Indicates that the current colour mode is set to 9000K.

DOCUMENT NO	REV	
112-166	G	SHEET 61

3.27 Edge Blend Set

Description:

Sets Edge Blend.

Note:

This data is not persistent between power cycles unless followed by an *Edge Blend Save* command.

3.27.1 LAN Control

Example:

Enable Edge Blend:

TX:	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	0C	28	00	00	00	00	00	00	00	04	00	00	00	01
RX:	74 70	50 46	01 0C	00 28	0 0 0 0	0 0 0 0	00 00	00 00	0 0 0 0	0 0 0 0	00 00	0D 01	00 00	00	00	00

Disable Edge Blend:

TX:	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	0 0
	50	46	0C	28	00	00	00	00	00	00	00	04	00	00	00	0 0
RX:	74 70	50 46	01 0C	00 28	00 00	0D 01	00 00	00	00	00						

Edge Blend Alignment Pattern:

TX:	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	0C	28	00	00	00	00	00	00	00	04	00	00	00	02
RX:	74 70	50 46	01 0C	00 28	0 0 0 0	0 0 0 0	00 00	00 00	0 0 0 0	00	0 0 0 0	0D 01	00 00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 62

3.27.2 RS232 Control

Example:

Enable Edge Blend:

TX:	53 54 50	41 50 46	50 01 0C	01 00 28	FF 00 00	FF 00 00	FF 00 00	FF 00 00	00 00 00	00 00 00	00 00 00	20 10 04	00 00 00	00 00 00	00 00 00	00 00 01	
RX:	73 53 74 70	61 41 50 46	50 50 01 0C	01 01 00 28	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00 1D 0D 01	00 00 00 00	00 00 00	0 0 0 0 0 0	0 0 0 0 0 0	
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00	
Disabl	e Ed	ge B	lend	:													
TX:	53 54 50	41 50 46	50 01 0C	01 00 28	FF 00 00	FF 00 00	FF 00 00	FF 00 00	0 0 0 0 0 0	00 00 00	0 0 0 0 0 0	20 10 04	00 00 00	00 00 00	0 0 0 0 0 0	0 0 0 0 0 0	
RX:	73 53 74 70	61 41 50 46	50 50 01 0C	01 01 00 28	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00 1D 0D 01	00 00 00 00	00 00 00	0 0 0 0 0 0	0 0 0 0 0 0	
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00	
Edge I	Blenc	l Ali	gnm	ent F	Patter	n:											
TX:	53 54 50	41 50 46	50 01 0C	01 00 28	FF 00 00	FF 00 00	FF 00 00	FF 00 00	0 0 0 0 0 0	00 00 00	00 00 00	20 10 04	00 00 00	00 00 00	0 0 0 0 0 0	00 00 02	
RX:	73 53 74 70	61 41 50 46	50 50 01 0C	01 01 00 28	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	00 00 00 00	0 0 0 0 0 0 0 0	00 1D 0D 01	00 00 00 00	00 00 00	00 00 00	0 0 0 0 0 0	
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00	

DOCUMENT NO	REV	
112-166	G	SHEET 63

3.28 Edge Blend Save

Description:

Save Edge Blend

3.28.1 LAN Control

Example:

Save Edge Blend:

TX:	54 50	50 46	01 0C	00 2A	00 00	00 00	00 00	00 00	00 00	0 0 0 0	00 00	0C 00	00	00	00	00
RX:	74 70	50 46	01 0C	00 2A	00 00	00 00	00 00	00 00	00 00	00 00	00 00	0D 01	00 00	00	00	00

3.28.2 RS232 Control

Example:

Save Edge Blend:

TX:	53 54 50	41 50 46	50 01 0C	01 00 2A	FF 00 00	FF 00 00	FF 00 00	FF 00 00	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1C 0C 00	00 00	00 00	0 0 0 0	00 00
RX:	73 53 74 70	61 41 50 46	50 50 01 0C	01 01 00 2A	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00 1D 0D 01	00 00 00 00	00 00 00	0 0 0 0 0 0	0 0 0 0 0 0
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 64

3.29 Lamp Hours Get

Description:

Gets lamp hours.

Lamp number can be one of



Note:

The number of lamps fitted is model dependent.

3.29.1 LAN Control

Example:

Get lamp 2 hours:

TX:	54 46 61 2C 65	50 27 6D 30 2C	01 07 70 2C 72	00 00 74 73 65	00 00 69 79 61	00 00 6D 73 64	00 00 65 74 2C	00 00 2C 65 32	00 00 30 6D 0D	00 00 2C 2C 00	00 32 30 6C	3E 00 2C 61	00 00 30 6D	00 00 2C 70	00 2E 30 74	00 23 2C 69	50 6C 30 6D
RX:	74 46 61 32	50 27 6D 35	01 07 70 00	00 00 74	00 00 69 3A	00 00 6D	00 00 65	00 00 2C	00 00 41	00 00 43	00 1A 4B	26 00 2C ntati	00 00 32	00 00 2C	00 00 36	00 15 33	70 6C 3A

Indicates lamp 2 hours is 63 hours 25 minutes

DOCUMENT NO	REV	
112-166	G	SHEET 65

3.29.2 RS232 Control

Example:

Get lamp 1 hours:

TX:	53 50 27 6D 30 2C	41 01 07 70 2C 72	50 00 74 73 65	01 00 69 79 61	FF 00 00 6D 73 64	FF 00 00 65 74 2C	FF 00 20 65 31	FF 00 00 30 6D 0D	00 00 2C 2C 00	00 00 32 30 6C	00 3E 00 2C 61	4E 00 00 30 6D	00 00 2C 70	00 00 2E 30 74	00 00 23 2C 69	00 50 6C 30 6D	54 46 61 2C 65
RX:	73 41 01 07 70	61 50 00 74	50 01 00 00 69	01 FF 00 00 6D	FF FF 00 00 65	FF FF 00 00 2C	FF FF 00 00 41	FF 00 00 00 43	00 00 00 19 4B	00 00 25 00 2C	00 35 00 00 31	00 00 00 20	00 00 00 00 36	00 00 00 14 38	00 00 70 6C 3A	00 74 46 61 30	53 50 27 6D 00
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00	
	31	2C	36	38	3A	30	= /	ASC	II rep	orese	ntati	on o	f 1,6	8:0			

Indicates lamp 1 hours is 68 hours 0 minutes

DOCUMENT NO	REV	
112-166	G	SHEET 66

3.30 Segmentation Set

Description:

Sets Segmentation.

Note:

This data is not persistent between power cycles unless followed by a *Segmentation Save* command.

3.30.1 LAN Control

Example:

Enable Segmentation:

TX:	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	0C	61	00	00	00	00	00	00	00	04	00	00	00	01
RX:	74 70	50 46	01 0C	00 61	00	00	00 00	00 00	00	00	00	0D 01	00 00	00	00	00

Disable Segmentation:

TX:	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	0C	61	00	00	00	00	00	00	00	04	00	00	00	00
RX:	74 70	50 46	01 0C	00 61	00 00	0D 01	00 00	00	00	00						

DOCUMENT NO	REV	
112-166	G	SHEET 67

3.30.2 RS232 Control

Example:

Enable Segmentation:

TX:	53	41	50	01	FF	FF	FF	FF	00	00	00	20	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	0C	6⊥	00	00	00	00	00	00	00	04	00	00	00	01
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	53	41	50	01	FF	FF	FF	FF	00	00	00	1D	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	0C	61	00	00	00	00	00	00	00	01	00			
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
Disable	e Seg	gmer	ntatic	on:												
TX:	53	41	50	01	FF	FF	FF	FF	00	00	00	20	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	10	00	00	00	00
	50	46	0C	61	00	00	00	00	00	00	00	04	00	00	00	00
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	53	41	50	01	FF	FF	FF	FF	00	00	00	1D	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	0D	00	00	00	00
	70	46	0C	61	00	00	00	00	00	00	00	01	00			
TX:	73	61	50	01	ਸਸ	ਸਤ	ਸਸ	ਸਤ	00	00	00	00	00	00	00	00
	. •		- •							- •	- •	- •			- •	

DOCUMENT NO	REV	
112-166	G	SHEET 68

3.31 Segmentation Save

Description:

Save Segmentation

3.31.1 LAN Control

Example:

Save Segmentation Blend:

TX:	54 50	50 46	01 0C	00 63	0 0 0 0	0 0 0 0	00 00	00 00	0 0 0 0	0 0 0 0	00 00	0C 00	00	00	00	00
RX:	74 70	50 46	01 0C	00 63	00 00	00 00	00 00	00 00	00 00	00 00	00 00	0D 01	00 00	00	00	00

3.31.2 RS232 Control

Example:

Save Segmentation:

TX:	53 54 50	41 50 46	50 01 0C	01 00 63	FF 00 00	FF 00 00	FF 00 00	FF 00 00	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1C 0C 00	00 00	00 00	0 0 0 0	00 00
RX:	73 53 74 70	61 41 50 46	50 50 01 0C	01 01 00 63	FF FF 00 00	FF FF 00 00	FF FF 00 00	FF FF 00 00	0 0 0 0 0 0 0 0	00 00 00 00	0 0 0 0 0 0 0 0	00 1D 0D 01	00 00 00 00	00 00 00	0 0 0 0 0 0	00 00 00
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 69

3.32 3D Enable Set

Description:

Turn 3D on and off.

Enable can be one of:

30 – 3D off 31 – 3D on

Note:

Only available on 3D capable projector models

3.32.1 LAN Control

Example:

Enable 3D:

TX:	54	50	01	00	00	00	00	00	00	00	00	3F	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	33	00	00	00	2F
	23	33	64	73	65	6C	65	63	74	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	73	65
	6C	65	63	74	2C	77	72	69	74	65	2C	30	31	0D	00	
RX:	74	50	01	00	00	00	00	00	00	00	00	1E	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0E	00	00	00	00
	0D	33	64	73	65	6C	65	63	74	2C	41	43	4B	00		

DOCUMENT NO	REV	
112-166	G	SHEET 70

3.32.2 RS232 Control

Example:

Enable 3D:

TX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	4F	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	3F	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	33	00	00	00	2F
	23	33	64	73	65	6C	65	63	74	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	73	65
	6C	65	63	74	2C	77	72	69	74	65	2C	30	31	0D	00	
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1E	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	12	00	00	00	00
	0D	33	64	73	65	6C	65	63	74	2C	41	43	4B	00		

DOCUMENT NO	REV	
112-166	G	SHEET 71

3.33 3D Enable Get

Description:

Get the current status of 3D enable.

Enable can be one of:

30 – 3D off 31 – 3D on

Note:

Only available on 3D capable projector models

3.33.1 LAN Control

Example:

 TX:
 54
 50
 01
 00
 00
 00
 00
 00
 00
 00
 3B
 00
 00
 00
 00

 50
 46
 27
 07
 00
 00
 00
 00
 00
 00
 2F
 00
 00
 00
 2B

 23
 33
 64
 73
 65
 6C
 65
 63
 74
 2C
 30
 00
 00

Indicates that 3D is on

DOCUMENT NO	REV	
112-166	G	SHEET 72
3.33.2 RS232 Control

Example:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	4B	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	3B	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2F	00	00	00	2В
	23	33	64	73	65	6C	65	63	74	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	73	65
	6C	65	63	74	2C	72	65	61	64	0D	00					
RX∙	73	61	50	01	ਸ਼ਾਹ	ਸ਼ਾਹ	ਸ਼ਾਹ	ਸ਼ਾ	00	0.0	00	00	00	00	00	0.0
11/1.	, J 5 3	41	50	01	ਸ਼ਾਸ਼	ਸ਼ਾਸ਼	ਸ਼ਾਸ਼	ਸ਼ਾਸ	00	00	00	32	00	00	00	00
	74	74	50	01	00	00	00	00	00	00	00	00	22	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	14	00	00	00	00
	11	33	64	73	65	6C	65	63	74	2C	41	43	4B	2C	30	31
	0D	00														
тх∙	73	61	50	01	ਸ਼ਾ	ਸ਼ਾਹ	ਸ਼ਾ	ਸ਼ਾ	0.0	0.0	00	0.0	00	00	00	0.0
171.	15	υT	50	υT	т. т.	т. т.	L L	т. Г.	00	00	00	00	00	00	00	00

Indicates that 3D is on

DOCUMENT NO	REV	
112-166	G	SHEET 73

3.34 3D Dark Time Set

Description:

Adjust the dark time .

Dark Time can be one of:



Note:

Only available on 3D capable projector models

3.34.1 LAN Control

Example:

Set Dark Time to 1300µs:

TX:	54	50	01	00	00	00	00	00	00	00	00	49	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	3D	00	00	00	39
	23	33	64	64	61	72	6В	74	69	6D	65	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64
	64	61	72	6В	74	69	6D	65	61	64	6A	75	73	74	2C	77
	72	69	74	65	2C	30	32	0D	00							
RX:	74	50	01	00	00	00	00	00	00	00	00	20	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	10	00	00	00	00
	0F	33	64	64	61	72	6В	74	69	6D	65	2C	41	43	4B	00

DOCUMENT NO	REV	
112-166	G	SHEET 74

3.34.2 RS232 Control

Example:

Set Dark Time to 1300µs:

- TX:
 53
 41
 50
 01
 FF
 FF
 FF
 FF
 00
 00
 00
 58
 00
 00
 00
 00

 54
 50
 01
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- TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

DOCUMENT NO	REV	
112-166	G	SHEET 75

3.35 3D Dark Time Get

Description:

Get the currently set dark time .

Dark Time can be one of:



Note:

Only available on 3D capable projector models

3.35.1 LAN Control

Example:

TX:	54	50	01	00	00	00	00	00	00	00	00	43	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	37	00	00	00	33
	23	64	61	72	6В	74	69	6D	65	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	64	61
	72	6В	74	69	6D	65	61	64	бA	75	73	74	2C	72	65	61
	64	0D	00													
RX:	74 70	74 46	50 27	01 07	00 00	21 11	00 00	00 00	00 00	00 00						
	10 00	64	61	72	6B	74	69	6D	65	2C	41	43	4B	2C	30	33

Indicates that the dark time is currently 7500µs

DOCUMENT NO	REV	
112-166	G	SHEET 76

3.35.2 RS232 Control

Example:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	53	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	43	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	37	00	00	00	33
	23	64	61	72	6В	74	69	6D	65	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	64	61
	72	6В	74	69	6D	65	61	64	бA	75	73	74	2C	72	65	61
	64	0D	00													
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	74	74	50	01	00	00	00	00	00	00	00	21	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	11	00	00	00	00
	10	64	61	72	6В	74	69	6D	65	2C	41	43	4B	2C	30	33
	00															
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
Indicat	es th	at th	e da	rk tiı	ne is	curi	ently	y 750)0µs							

DOCUMENT NO	REV	
112-166	G	SHEET 77

3.36 3D Frame Rate Multiplier Set

Description:

Set the frame rate multiplication factor

Frame rate multiplier can be one of:



Note:

Only available on 3D capable projector models

3.36.1 LAN Control

Example:

Set frame rate multiplier to x3:

TX:	54	50	01	00	00	00	00	00	00	00	00	48	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	3C	00	00	00	38
	23	6D	75	6C	74	69	70	6C	69	65	72	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64
	66	72	61	6D	65	72	61	74	65	6D	75	6C	74	2C	77	72
	69	74	65	2C	30	32	0D	00								
RX:	74	50	01	00	00	00	00	00	00	00	00	20	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	10	00	00	00	00
	0F	бD	75	6C	74	69	70	6C	69	65	72	2C	41	43	4B	00

DOCUMENT NO	REV	
112-166	G	SHEET 78

3.36.2 RS232 Control

Example:

Set frame rate multiplier to x3:

- TX:
 53
 41
 50
 01
 FF
 FF
 FF
 FF
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 58
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 54
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- TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

OF 6D 75 6C 74 69 70 6C 69 65 72 2C 41 43 4B 00

DOCUMENT NO	REV	
112-166	G	SHEET 79

3.37 3D Frame Rate Multiplier Get

Description:

Get the current frame rate multiplication factor

Frame rate multiplier can be one of:



Note:

Only available on 3D capable projector models

3.37.1 LAN Control

Example:

TX:	54	50	01	00	00	00	00	00	00	00	00	44	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	38	00	00	00	34
	23	6D	75	6C	74	69	70	6C	69	65	72	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64
	66	72	61	6D	65	72	61	74	65	6D	75	6C	74	2C	72	65
	61	64	0D	00												
RX:	74	74	50	01	00	00	00	00	00	00	00	23	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	13	00	00	00	00
	12	6D	75	6C	74	69	70	6C	69	65	72	2C	41	43	4B	2C
	30	31	00													

Indicates that the frame rate multiplier is currently x2

1			
	DOCUMENT NO	REV	
	112-166	G	SHEET 80

3.37.2 RS232 Control

Example:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	54	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	44	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	38	00	00	00	34
	23	6D	75	6C	74	69	70	6C	69	65	72	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	30	2C	69	бD	61	67	65	2C	33	64
	66	72	61	6D	65	72	61	74	65	6D	75	6C	74	2C	72	65
	61	64	0D	00												
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	74	74	50	01	00	00	00	00	00	00	00	23	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	13	00	00	00	00
	12	6D	75	бC	74	69	70	6C	69	65	72	2C	41	43	4B	2C
	30	31	00													
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

Indicates that the frame rate multiplier is currently x2

DOCUMENT NO	REV	
112-166	G	SHEET 81

3.38 3D Format Set

Description:

Set the 3D format of the incoming video

3D format can be one of:



Note:

Only available on 3D capable projector models

3.38.1 LAN Control

Example:

Set 3D format to frame packing:

TX:	54	50	01	00	00	00	00	00	00	00	00	3F	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	33	00	00	00	2F
	23	33	б4	66	бF	72	6D	61	74	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	66	бF
	72	6D	61	74	2C	77	72	69	74	65	2C	30	32	0D	00	
RX:	74	50	01	00	00	00	00	00	00	00	00	1E	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0E	00	00	00	00
	0D	33	64	66	бF	72	6D	61	74	2C	41	43	4B	00		

DOCUMENT NO	REV	
112-166	G	SHEET 82

3.38.2 RS232 Control

Example:

Set 3D format to frame packing:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	4F	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	3F	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	33	00	00	00	2F
	23	33	64	66	бF	72	6D	61	74	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	66	6F
	72	6D	61	74	2C	77	72	69	74	65	2C	30	32	0D	00	
RX:	73	61	50	01	FF	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1E	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0E	00	00	00	00
	0D	33	64	66	бF	72	6D	61	74	2C	41	43	4B	00		
TX:	73	61	50	01	\mathbf{FF}	FF	$\mathbf{F}\mathbf{F}$	$\mathbf{F}\mathbf{F}$	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 83

3.39 3D Format Get

Description:

Get the selected 3D format of the incoming video

3D format can be one of:



Note:

Only available on 3D capable projector models

3.39.1 LAN Control

Example:

TX:	54	50	01	00	00	00	00	00	00	00	00	3в	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2F	00	00	00	2B
	23	33	б4	66	бF	72	6D	61	74	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	66	бF
	72	6D	61	74	2C	72	65	61	64	0D	00					
RX:	74	50	01	00	00	00	00	00	00	00	00	21	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	11	00	00	00	00
	10	33	64	66	бF	72	6D	61	74	2C	41	43	4B	2C	30	34
	00															

Indicates that the 3D format is currently set to side-by-side (half)

DOCUMENT NO	REV	
112-166	G	SHEET 84

3.39.2 RS232 Control

Example:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	4B	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	3B	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	2F	00	00	00	2в
	23	33	64	66	бF	72	6D	61	74	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	66	бF
	72	6D	61	74	2C	72	65	61	64	0D	00					
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	21	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	11	00	00	00	00
	10	33	64	66	6F	72	6D	61	74	2C	41	43	4B	2C	30	34
	00															
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
Indicat	es th	at th	e 3D) for	mat i	s cui	rent	ly se	t to s	ide-l	by-si	de (l	nalf)			

DOCUMENT NO	REV	
112-166	G	SHEET 85

3.40 3D Eye Dominance Set

Description:

Set the 3D eye dominance

Eye dominance can be one of:

30 – Left 31 – Right

Note:

Only available on 3D capable projector models

3.40.1 LAN Control

Example:

Set 3D eye dominance to right:

TX:	54	50	01	00	00	00	00	00	00	00	00	44	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	38	00	00	00	34
	23	64	6F	6D	69	бE	61	6E	63	65	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	69
	70	66	72	61	6D	65	64	6F	6D	2C	77	72	69	74	65	2C
	30	31	0D	00												
RX:	74	50	01	00	00	00	00	00	00	00	00	1F	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0F	00	00	00	00
	0E	64	бF	6D	69	бE	61	бE	63	65	2C	41	43	4B	00	

DOCUMENT NO	REV	
112-166	G	SHEET 86

3.40.2 RS232 Control

Example:

Set 3D eye dominance to right:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	54	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	44	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	38	00	00	00	34
	23	64	6F	6D	69	бE	61	6E	63	65	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	69
	70	66	72	61	6D	65	64	6F	6D	2C	77	72	69	74	65	2C
	30	31	0D	00												
DV	P 2	C 1	F 0	0.1					~ ~	0.0	0.0	~ ~	~ ~	0.0	~ ~	0.0
RX:	73	61	50	01	F.F.	F.F.	F.F.	F.F.	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1F	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0F	00	00	00	00
	0E	64	бF	бD	69	бE	61	бE	63	65	2C	41	43	4B	00	
TV.	72	61	ΕO	01	चच	चच	चच	चच	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IA:	13	юТ	50	UΤ	ЬЪ.	ЬЪ.	ЬЪ.	ЬЪ.	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 87

3.41 3D Eye Dominance Get

Description:

Get the selected 3D eye dominance

Eye dominance can be one of:

30 – Left 31 – Right

Note:

Only available on 3D capable projector models

3.41.1 LAN Control

Example:

TX:	54	50	01	00	00	00	00	00	00	00	00	40	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	34	00	00	00	30
	23	64	6F	6D	69	бE	61	бE	63	65	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	69
	70	66	72	61	6D	65	64	бF	6D	2C	72	65	61	64	0D	00
RX:	74	50	01	00	00	00	00	00	00	00	00	22	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	12	00	00	00	00
	11	64	6F	6D	69	бE	61	6E	63	65	2C	41	43	4B	2C	30
	30	00														

Indicates that the 3D eye dominance is currently set to left

DOCUMENT NO	DEV	
112-166	G	SHEET 88
112 100	0	SHEET 00

3.41.2 RS232 Control

Example:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	50	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	40	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	34	00	00	00	30
	23	64	бF	6D	69	бE	61	бE	63	65	2C	30	2C	30	2C	30
	2C	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	69
	70	66	72	61	6D	65	64	бF	6D	2C	72	65	61	64	0D	00
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	22	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	12	00	00	00	00
	11	64	бF	6D	69	бE	61	6E	63	65	2C	41	43	4B	2C	30
	30	00														
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

Indicates that the 3D eye dominance is currently set to left

DOCUMENT NO	REV	
112-166	G	SHEET 89

3.42 3D Sync Polarity Set

Description:

Set the 3D sync polarity

3D sync polarity is on of:

30 – positive 31 – negative

Note:

Only available on 3D capable projector models

3.42.1 LAN Control

Example:

Set 3D sync polarity to positive:

54	50	01	00	00	00	00	00	00	00	00	46	00	00	00	00
50	46	27	07	00	00	00	00	00	00	00	3A	00	00	00	36
23	70	бF	6C	61	72	69	74	79	2C	30	2C	30	2C	30	2C
30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	бF	70
72	65	66	70	бF	6C	61	72	69	74	79	2C	77	72	69	74
65	2C	30	30	0D	00										
74	50	01	00	00	00	00	00	00	00	00	1E	00	00	00	00
70	46	27	07	00	00	00	00	00	00	00	0E	00	00	00	00
0D	70	бF	6C	61	72	69	74	79	2C	41	43	4B	00		
	54 50 23 30 72 65 74 70 0D	54 50 50 46 23 70 30 2C 72 65 65 2C 74 50 70 46 0D 70	54500150462723706F302C30726566652C307450017046270D706F	54 50 01 00 50 46 27 07 23 70 6F 6C 30 2C 30 2C 72 65 66 70 65 2C 30 30 74 50 01 00 70 46 27 07 0D 70 6F 6C	54 50 01 00 00 50 46 27 07 00 23 70 6F 6C 61 30 2C 30 2C 30 72 65 66 70 6F 65 2C 30 30 0D 74 50 01 00 00 70 46 27 07 00 0D 70 6F 6C 61	54 50 01 00 00 00 50 46 27 07 00 00 23 70 6F 6C 61 72 30 2C 30 2C 30 2C 72 65 66 70 6F 6C 65 2C 30 30 0D 00 74 50 01 00 00 00 70 46 27 07 00 00 0D 70 6F 6C 61 72	54 50 01 00 00 00 00 50 46 27 07 00 00 00 23 70 6F 6C 61 72 69 30 2C 30 2C 30 2C 69 72 65 66 70 6F 6C 61 65 2C 30 30 0D 00 00 74 50 01 00 00 00 00 70 46 27 07 00 00 00 0D 70 6F 6C 61 72 69	54 50 01 00 00 00 00 00 50 46 27 07 00 00 00 00 23 70 6F 6C 61 72 69 74 30 2C 30 2C 30 2C 69 6D 72 65 66 70 6F 6C 61 72 65 2C 30 30 0D 00 00 00 74 50 01 00 00 00 00 00 74 50 01 00 00 00 00 00 70 46 27 07 00 00 00 00 0D 70 6F 6C 61 72 69 74	54 50 01 00 00 00 00 00 00 00 50 46 27 07 00 00 00 00 00 00 23 70 6F 6C 61 72 69 74 79 30 2C 30 2C 30 2C 69 6D 61 72 65 66 70 6F 6C 61 72 69 65 2C 30 30 0D 00 00 00 00 74 50 01 00 00 00 00 00 00 70 46 27 07 00 00 00 00 00 70 6F 6C 61 72 69 74 79	54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""><th>54 50 01 00 30 30 3A 23 70 6F 6C 61 72 69 74 79 2C 30 2C 30 2C 30 2C 30 2C 69 6D 61 67 65 2C 72 65 66 70 6F 6C 61 72 69 74 79 2C 30 2C 65 2C 30 30 0D 00 00 0 0 30 2C 30</th><th>54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""></td<></th></td<></th></td<></th></td<></th></td<>	54 50 01 00 <td< th=""><th>54 50 01 00 30 30 3A 23 70 6F 6C 61 72 69 74 79 2C 30 2C 30 2C 30 2C 30 2C 69 6D 61 67 65 2C 72 65 66 70 6F 6C 61 72 69 74 79 2C 30 2C 65 2C 30 30 0D 00 00 0 0 30 2C 30</th><th>54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""></td<></th></td<></th></td<></th></td<>	54 50 01 00 30 30 3A 23 70 6F 6C 61 72 69 74 79 2C 30 2C 30 2C 30 2C 30 2C 69 6D 61 67 65 2C 72 65 66 70 6F 6C 61 72 69 74 79 2C 30 2C 65 2C 30 30 0D 00 00 0 0 30 2C 30	54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""></td<></th></td<></th></td<>	54 50 01 00 <td< th=""><th>54 50 01 00 <td< th=""></td<></th></td<>	54 50 01 00 <td< th=""></td<>

DOCUMENT NO	REV	
112-166	G	SHEET 90

3.42.2 RS232 Control

Example:

Set 3D sync polarity to positive:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	$\mathbf{F}\mathbf{F}$	\mathbf{FF}	00	00	00	56	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	46	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	3A	00	00	00	36
	23	70	бF	6C	61	72	69	74	79	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	бF	70
	72	65	66	70	бF	6C	61	72	69	74	79	2C	77	72	69	74
	65	2C	30	30	0D	00										
RX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1E	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0E	00	00	00	00
	0D	70	6F	6C	61	72	69	74	79	2C	41	43	4B	00		
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

DOCUMENT NO	REV	
112-166	G	SHEET 91

3.43 3D Sync Polarity Get

Description:

Set the 3D sync polarity

3D sync polarity is on of:

30 – positive 31 – negative

Note:

Only available on 3D capable projector models

3.43.1 LAN Control

Example:

TX:	54	50	01	00	00	00	00	00	00	00	00	42	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	36	00	00	00	32
	23	70	6F	6C	61	72	69	74	79	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	30	2C	69	6D	61	67	65	2C	33	64	бF	70
	72	65	66	70	бF	6C	61	72	69	74	79	2C	72	65	61	64
	0D	00														
RX:	74 70 10	50 46 70	01 27 6F	00 07 6C	00 00 61	00 00 72	00 00 69	00 00 74	00 00 79	00 00 2C	00 00 41	21 11 43	00 00 4B	00 00 2C	00 00 30	00 00 31
	00															

Indicates that the 3D sync polarity is negative

DOCUMENT NO	REV	
112-166	G	SHEET 92

3.43.2 RS232 Control

Example:

TX: 53 41 50 01 FF FF FF FF 00 00 00 52 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 42 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 36 00 00 32 23 70 6F 6C 61 72 69 74 79 2C 30 2C 30 2C 30 2C 30 2C 30 2C 30 2C 69 6D 61 67 65 2C 33 64 6F 70 72 65 66 70 6F 6C 61 72 69 74 79 2C 72 65 61 64 0D 00 RX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 74 50 01 00 00 00 00 00 00 00 00 21 00 00 00 70 46 27 07 00 00 00 00 00 00 00 11 00 00 00 00 10 70 6F 6C 61 72 69 74 79 2C 41 43 4B 2C 30 31 00 TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00 Indicates that the 3D sync polarity is negative

DOCUMENT NOREV112-166GSHEET 93

3.44 Main / DVI Input Configuration Set

Description:

Set the Main / DVI input configuration

Configuration is one of:

30 – Single link type A 31 – Single link type B 32 – Dual link

Note:

Only available on projector models which have the Main / DVI input fitted

3.44.1 LAN Control

Example:

Set the Main / DVI configuration to dual link:

TX:	54	50	01	00	00	00	00	00	00	00	00	42	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	36	00	00	00	32
	23	63	бF	бE	66	69	67	2C	30	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	69	6D	61	67	65	2C	33	64	69	бE	70	75
	74	63	бF	бE	66	69	67	2C	77	72	69	74	65	2C	30	32
	0D	00														
RX:	74	50	01	00	00	00	00	00	00	00	00	1C	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0C	00	00	00	00
	0B	63	бF	бE	66	69	67	2C	41	43	4B	00				

DOCUMENT NO	REV	
112-166	G	SHEET 94

3.44.2 RS232 Control

Example:

Set the Main / DVI configuration to dual link:

- TX: 53 41 50 01 FF FF FF FF 00 00 00 56 00 00 00 00 54 50 01 00 00 00 00 00 00 00 00 00 42 00 00 00 00 50 46 27 07 00 00 00 00 00 00 00 00 36 00 00 00 32 23 63 6F 6E 66 69 67 2C 30 2C
- TX: 73 61 50 01 FF FF FF FF 00 00 00 00 00 00 00 00

DOCUMENT NO	REV	
112-166	G	SHEET 95

3.45 Main / DVI Input Configuration Get

Set the Main / DVI input configuration

Configuration is one of:

30 – Single link type A
31 – Single link type B
32 – Dual link

Note:

Only available on projector models which have the Main / DVI input fitted

3.45.1 LAN Control

Example:

TX:	54 50 23 30 74	50 46 63 2C 63	01 27 6F 30 6F	00 07 6E 2C 6E	00 00 66 69 66	00 00 69 6D 69	00 00 67 61 67	00 00 2C 67 2C	00 00 30 65 72	00 00 2C 2C 65	00 00 30 33 61	3E 32 2C 64 64	00 00 30 69 0D	00 00 2C 6E 00	00 00 30 70	00 2E 2C 75
RX:	74 70 0E	50 46 63	01 27 6F	00 07 6E	00 00 66	00 00 69	00 00 67	00 00 2C	00 00 41	00 00 43	00 00 4B	1F 0F 2C	00 00 30	00 00 30	00 00 00	0000

Indicates that main / DVI is set to single link type A

DOCUMENT NO	REV	
112-166	G	SHEET 96

3.45.2 RS232 Control

Example:

TX:	53	41	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	4E	00	00	00	00
	54	50	01	00	00	00	00	00	00	00	00	3E	00	00	00	00
	50	46	27	07	00	00	00	00	00	00	00	32	00	00	00	2E
	23	63	6F	бE	66	69	67	2C	30	2C	30	2C	30	2C	30	2C
	30	2C	30	2C	69	6D	61	67	65	2C	33	64	69	6E	70	75
	74	63	6F	6E	66	69	67	2C	72	65	61	64	0D	00		
RX:	73	61	50	01	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	\mathbf{FF}	00	00	00	00	00	00	00	00
	74	50	01	00	00	00	00	00	00	00	00	1F	00	00	00	00
	70	46	27	07	00	00	00	00	00	00	00	0F	00	00	00	00
	0E	63	бF	бE	66	69	67	2C	41	43	4B	2C	30	30	00	
TX:	73	61	50	01	FF	FF	FF	FF	00	00	00	00	00	00	00	00

Indicates that main / DVI is set to single link type A

DOCUMENT NO	REV	
112-166	G	SHEET 97