

Function	Command	Value	Read/ Write	Remarks
3D Mode	TDI	Range: 0-2, Default: 0		0 is default OFF, 1 is External Sync, 2 is DLP Link+H161
AC Power On	APO	RANGE: 0-1, Default: 0		0: OFF 1: On
Aspect Ratio	ARZ	RANGE: 0-6, Default: 0		0: Auto 1: Native 2: 4:3 3: 16:9 4: Letterbox 5: Panorama 6: 16:10
Auto Image	AIM	RANGE: 0-1, Default: 0		0: Disable 1: Enable
Auto Keystone Setting	AVK	RANGE: 0-2, Default: 1		0: OFF 1: On 2: Disabled
Auto Off Time	AOT	RANGE: 0-6, Default: 6		0: Never 1: 5 minutes 2: 10 minutes 3: 15 minutes 4: 20 minutes 5: 25 minutes 6: 30 minutes
Auto Source Enable	ASC	RANGE: 0-1, Default: 1		0: Disable 1: Enable
Blank Key Setting	BSS	RANGE: 0-6, Default: 3		0: Blue Screen 1: Timer 2: Test Pattern 3: Blank Screen 4: White Screen 5: Factory Logo 6: Snapshot
Blank Screen Setting	BUX	RANGE: 0-1, Default: 0		0: Disable 1: Enable
Brightness	BRT	RANGE: 0-100 Default: 50		0: Minimum Brightness 100: Maximum Brightness
BrilliantColor™ Look	BCL	RANGE: 0-1, Default: 1		0: Normal Look 1: Bright Look
Ceiling Mount Mode	CCL	RANGE: 0-2, Default: 0		0: OFF [Image not Flipped] 1: ON [Image Flipped] 2: Auto [Based on projector's orientation]
CLJ/CLX Version Setting	CLV	N/A	Read Only	200: Version 200, the left most digit (hundreds) is the major version. The next 2 digits are the minor version All projectors that follow this specification should return the value 200
Closed Captions (Non-Muted) Setting	CLC	RANGE: 0-9, Default: 0		0: Do not display any captions 1: Display captions from channel 1 2: Display captions from channel 2 3-9: Reserved for future use + : Cycle to the next value
Closed Captions (Muted) Setting	CLM	RANGE: 0-9, Default: 1		0: Do not display any captions 1: Display captions from channel 1 2: Display captions from channel 2 3-9: Reserved for future use + : Cycle to the next value
Color Gain Settings (RED)	RCG	RANGE: 0-100, Default: 50		0: Minimum Gain 100: Maximum Gain
Color Gain Settings (GREEN)	GCG	RANGE: 0-100, Default: 50		0: Minimum Gain 100: Maximum Gain
Color Gain Settings (BLUE)	BCG	RANGE: 0-100, Default: 50		0: Minimum Gain 100: Maximum Gain
Color Gamut Setting	CGA	RANGE: 0-4, Default: 0		0: Auto 1: SMPTE_C 2: REC709 3: EBU 4: Maximum
Color Offset Setting (RED)	RCD	RANGE: 0-100, Default: 50		0: Minimum Offset 100: Maximum Offset
Color Offset Setting (GREEN)	GCD	RANGE: 0-100, Default: 50		0: Minimum Offset 100: Maximum Offset
Color Offset Setting (BLUE)	BCD	RANGE: 0-100, Default: 50		0: Minimum Offset 100: Maximum Offset
Color Space Setting	CSM	RANGE: 0-4, Default: 4		0: RGB 1: REC709 2: REC601 3: RGB Video 4: Auto
Color Temp Setting	TMP	RANGE: 1-4, Default: 1 (except analog computer & DVI)		0: Warmest 1: Warm 2: Cool 3: N/A (Reserved) 4: Bright
Color Wheel Index Setting	CWI	Range: 0-719, Default: 67		Calibrates the color wheel. It is always possible to read this setting, but changing this setting will fail unless the correct service password has already been set. See the Service Password setting.
Color Wheel Ramp Mode Setting	CRM	RANGE: 0-16, Default: 0		0: OFF 1: White 2: Red 3: Green 4: Blue

Contrast	CON	RANGE: 0-100, Default: 47		0: Minimum contrast 100: Maximum contrast
Current Source Command	SRC	Range 0-6 : Default: 1		0: DisplayLink 1: VGA1 2: VGA2 3: RGBHV 4: iLinkPort 5: HDMI 6: HDMI2 7: Component 8: S-Video 9: Composite
Custom Key Setting	EFK	RANGE: 0-16, Default: 8		0: Blank Screen 1: Mute 2: N/A . Reserved for future use 3: Aspect Ratio 4: Source 5: Auto Image 6: Freeze Screen 7: N/A . Reserved for future use 8: Source Info 9: N/A . Reserved for future use 10: Projector Info 11: N/A . Reserved for future use 12: N/A . Reserved for future use 14: Overscan 15: AV Mute 16: Closed Captions 17: Picture-in-Picture 18: N/A . Reserved for future use
Detect Film Setting	TTO	RANGE: 0-1, Default: 1		0: OFF (Film mode detection off) 1: On (Film mode detection on)
Digital Zoom Setting	DZM	RANGE: 0-100, Default: 100		0: Display area reduced as small as possible 100: Normal display area (unchanged)
Disable Snapshot Setting	DCP	RANGE: 0-1, Default: 0		0: Snapshots are enabled 1: Snapshots are disabled
DisplayLink Source Command	USS	N/A		Changes the current input source to be DisplayLink
DisplayLink Source Setting	DLS	Range: 0-1, Default: 0		Returns the value of the Current Source setting that maps to the DisplayLink source
Error Condition Setting	ERR	RANGE: 0-6, Default: 0	Read Only	0: No Error 1: The lamp did not strike after 5 attempts 2: Reserved 3: Lamp went out unexpectedly 4: Fan Failure 5: Over Temperature 6: Low Voltage
Factory Reset Command	RST	Range: 0-1, Default: 0		N/A
Fast Color Refresh Setting	FCR	RANGE: 0-2, Default: 0		0: OFF 1: Video Only 2: On
Flash Update Command	FMR	Range: 0-1, Default: 0		This command places the projector into flash update state.
Flash Tone Correction Setting	FTC	RANGE: 0-100, Default: 50		0: Minimum Correction 100: Maximum Correction
Force Wide Setting	FWM	RANGE: 0-1, Default: 0		0: OFF (Default for 4:3 projectors) 1: On (Default for wide projectors)
Freeze Screen Setting	FRZ	RANGE: 0-1, Default: 0		0: Freeze is disabled 1: Freeze is enabled
Friendly Name Setting	FFN	N/A		Defines the Friendly name of the projector
Gamma Setting	GTB	RANGE: 0-6, Default : 2		0,1,4,6,8: Reserved 2: Optimize Gamma for video content (Default if source is not analog, computer or digital) 3: Film 5: Bright 7: CRT (Default for sources that are analog, computer or digital)
Glow Ring Setting	GLO	RANGE: 0-1, Default: 1		0: OFF 1: Auto
Help Command	HLP	RANGE: 0-1, Default: 0		0: Exit Help 1: Show Help
Help Customization Setting	HLC	RANGE: 0-1, Default: 0		0: Help command shows/hides the help menu 1: Help command shows/hides the user's custom help screen
Horizontal Keystone Setting	DKH	RANGE: 0-100, Default: 50		0: Minimum Horizontal Keystone 100: Maximum Horizontal Keystone
Vertical Keystone Setting	DKV	RANGE: 0-100, Default: 50		0: Minimum Vertical Keystone 100: Maximum Vertical Keystone
Horizontal Position Settings	HPS	RANGE: 0-100, Default: 51		Increasing the value moves the active image to the right
Vertical Position Settings	VPS	RANGE: 0-100, Default: 100		Increasing the value moves the active region up
Horizontal Shift Settings	DSH	RANGE: 0-100, Default: 50		0: Display area is moved as far as possible to the left 100: Display area is moved as far as possible to the right
Vertical Shift Settings	DSV	RANGE: 0-100, Default: 50		0: Display area is moved as far as possible to the top 100: Display area is moved as far as possible to the bottom
Internal Speakers Setting	INT	RANGE: 0-1, Default: 1		0: OFF 1: On
Key Click Setting	KCL	RANGE: 0-1, Default: 1		0: OFF, 1: On
Keypad Enable Setting	KPE	RANGE: 0-1, Default: 1		0: Locked 1: Enabled

Keypad Navigation Type Setting	KNT	RANGE: 2-4, Default: 4	Read only	2: Keypad supports 2-way navigation (up/down) 4: Keypad supports 4-way navigation (up/down/left/right)
Lamp Life Setting	LIF	N/A	Read Only	Reports the expected maximum lamp life, in hours
Lamp Low Power Setting	IPM	RANGE: 0-1, Default: 0		0: OFF . Default for business projectors 1: On . Default for home projectors
Language Initial Value Setting	LIV	N/A		The next time the projector is powered on, the OSD language will be one of the languages listed in the Language setting below. For example, if the value is set to 10, then the next time the projector is powered on, the OSD language will be Spanish 100 : The next time the projector is powered on, it will display the first Use Language menu
Language Setting	LAN	RANGE: 0-17, Default: 0 (Default:0 for Non-China Products)		0: English 1: French 2: German 3: Italian 4: Japanese 5: Korean 6: Norwegian 7: Portuguese 8: Russian 9: Simplified Chinese (Default for China Products) 10: Spanish 11: Traditional Chinese 12: Swedish 13: Dutch 14: Polish 15: Turkish 16: Danish 17: Finnish
LitePort Control Settings (Auto Start)	LAS	RANGE: 0-1, Default: 1		0: OFF Projector source doesn't change, LitePort goes to folder view. 1: On Projector switches to LitePort source, and LitePort starts slide show
LitePort Control Settings (Show all folders)	LPA	RANGE: 0-1, Default: 0		0: OFF Only images in the current folder are shown. 1: On All images in all folders are shown.
LitePort Control Settings (Fill Screen)	LPS	RANGE: 0-1, Default: 0		0: OFF if the image is smaller than the screen, do not resize it 1: On if the image is smaller than the screen, resize it to fill the screen.
LitePort Control Settings (Next Slide)	LAD	RANGE: 0-4, Default: 0		0: Manual 1: 3 seconds 2: 10 seconds 3: 30 seconds 4: 1 minute Selects the delay before automatically advancing to the next image in the slide show
LitePort Control Settings (Effect)	LTS	RANGE: 0-12, Default: 0		0: OFF 1: Random 2: Fade 3: Horiz Wipe 4: Vert Wipe 5: Diag Wipe 6: Horiz Split 7: Vert Split 8: Horiz Bars 9: Vert Bars 10: Spiral 11: Diamond 12: Blocks
LitePort Control Settings (Show Info)	LSI	RANGE: 0-1, Default: 0		0: OFF Do not display image filename and number 1: On Display image filename and number with image
Magnify Control Settings	MGC	RANGE: 0-1, Default: 1		0: OFF 1: On
Magnify Level Settings	MGL	RANGE: 0-100, Default: 0		0: Image Size Unchanged 1-100: As the value increases the image size and edges of the images are cropped
Magnify Horizontal Position Settings	MQH	RANGE: 0-100, Default: 50		0: Minimum Horizontal Position Setting 100: Maximum Horizontal Position Setting (increasing the value shows content that is further to the right in the original image)
Magnify Vertical Position Settings	MQV	RANGE: 0-100, Default: 50		0: Minimum Vertical Position Setting 100: Maximum Vertical Position Setting (increasing the value shows content that is further to the bottom of the original image)
Map Source Audio	SA0-SA3			Example: Suppose the projector has sources VGA 1, VGA 2, and Composite. You want to remap Composite source to use audio 1 input. Since Composite is the third source, the CJ prefix is SA2, and the value corresponding to audio 1 input is 1. Therefore use the command SA21.
Menu Enable Setting	MINU	RANGE: 0-1, Default: 0		0: OFF 1: On
Menu Lockout Setting	MNL	RANGE: 0-15, Default: 0		0: No menus are locked out 1: Best Picture Menu is locked out 2: Advanced Picture Menu is locked out 4: Setup Menu is locked out 8: Status & Service Menu is locked out 10: Lock out Advanced Picture & Status & Service Menu 15: Lock out all Menus
Menu Navigation Settings	NAV	RANGE: 0-5, Default: 0		0: Menu Key 1: Up Key 2: Down Key 3: Select Key 4: Left Key 5: Right Key
Menu Offset Settings	OFF	RANGE: 0-100, Default: 0		0: The space above and to the left of the menu (and below and to the left of messages) is approximately equal to the height of the menu font. As value increases, the menu moves down and to the right, and messages move up and to the right. 100: The offset is 6% of vertical resolution in both axes.

Menu Transparency Setting	TOE	RANGE: 0-90, Default: 0		0: OSD is totally opaque, 60: OSD is 60% transparent (As value increases, more image visible behind OSD)
Mute Settings	MTE	RANGE: 0-1, Default: 0		0: Audio is not muted 1: Audio is muted
Network Default Gateway Settings (first byte left most)	GT1	Range: 0-255 Default: 0		Defines the IP address of the local router
Network Default Gateway Settings (second byte)	GT2	Range: 0-255 Default: 0		Defines the IP address of the local router
Network Default Gateway Settings (third byte)	GT3	Range: 0-255 Default: 0		Defines the IP address of the local router
Network Default Gateway Settings (forth byte right most)	GT4	Range: 0-255 Default: 0		Defines the IP address of the local router
Network DHCP Settings	DHP	RANGE: 0-1, Default: 1		0: OFF 1: On
Network Host Name Settings	HSN	N/A		Defines the host name of the projector used for WINS host name lookup
Network Host Name Lookup	HNL	RANGE: 0-1, Default: 1		0: OFF 1: On
Network ID Show Messages	DNG	Range: 0-1, Default: 1		0 – Messages OFF, 1 – Messages ON <default>
Network IP Address Setting (first byte left most)	IP1	Range: 0-255 Default: 0		Defines the IP address of the projector
Network IP Address Setting (second byte)	IP2	Range: 0-255 Default: 0		Defines the IP address of the projector
Network IP Address Setting (third byte)	IP3	Range: 0-255 Default: 0		Defines the IP address of the projector
Network IP Address Setting (forth byte right most)	IP4	Range: 0-255 Default: 0		Defines the IP address of the projector
Network MAC Address Setting	MAD	N/A	Read Only	Human readable representation of projector's MAC address
Network Subnet Mask Settings (first byte left most)	NM1	Range: 0-255 Default: 0		Defines the network address portion of the IP address
Network Subnet Mask Settings (second byte)	NM2	Range: 0-255 Default: 0		Defines the network address portion of the IP address
Network Subnet Mask Settings (third byte)	NM3	Range: 0-255 Default: 0		Defines the network address portion of the IP address
Network Subnet Mask Settings (forth byte right most)	NM4	Range: 0-255 Default: 0		Defines the network address portion of the IP address
Noise Reduction Setting	NRL	RANGE: 0-100, Default: 0		0: No noise reduction 1: Minimum Noise Reduction 100: Maximum Noise Reduction
Overscan Setting	OVS	RANGE: 0-2, Default: 0		0: OFF 1: Zoom 2: Crop
Phase Setting	MGS	RANGE: 0-100, Default: 10		0: Minimum phase setting 1: Maximum phase setting
Pin Protect Setting	PIV	RANGE: 0-1, Default: 0		0: OFF 1: On
Power Settings	PWR	RANGE: 0-1, Default: 0		0: Turns projector OFF 1: Turns projector On

Chime Enable	ACE	RANGE: 0-1, Default: 1		0: Off 1: On
Power Up Source Setting	DSC	N/A		Product specific; see Current Source setting for details on source naming and order
Projector Info Command	PRJ	N/A	Read Only	Displays information about the projector (model, serial number, etc.)
Preset Setting	PST	RANGE: 0-13, Default: 4		0: Reserved 1: User 2: Reserved 3: Reserved 4: None 5: Presentation 6: N/A 7: Video 8: ISF Day 9: ISF Night 10: Bright 11: Whiteboard 12: Blackboard 13: Beige Wall + : Cycle to the next preset
Prevent PC Screensaver Setting	NND	RANGE: 0-1, Default: 1		0: Off 1: On
Projector Info Settings	BRD	N/A	Read Only	Projector brand
	MDL	N/A	Read Only	Projector Model
	LSN	N/A	Read Only	Projector Serial No
	NRS	N/A	Read Only	Projector Native Resolution
	FVS	N/A	Read Only	Projector Firmware
	LMP	N/A	Read Only	The total number of hours that the current lamp has been on (If dual lamp projector, this is only for lamp no. 1). Note: On dual lamp projectors, show this setting as Lamp 1 Hours in the OSD
	LMO	N/A	Read Only	Total No of hours that the current lamp has been on High Power Mode
	LME	N/A	Read Only	Total No of hours that the current lamp has been on Low Power Mode
	LMT	N/A	Read Only	Total No of hours that the projector has operated with any lamp
	LTO	N/A	Read Only	Total No of hours that the projector has operated with any lamp on High Power Mode
	LTE	N/A	Read Only	Total No of hours that the projector has operated with any lamp on Low Power Mode
	LMR	N/A	Read Only	The number of times the lamp hour counter has been reset
Rear Project Setting	REA	RANGE: 0-1, Default: 0		0: Image is not flipped 1: Image is flipped
Reset Lamp Hours Command	LRT	N/A		Resets the lamp hour counter to zero (does not affect the total lamp hour counter). On dual-lamp projectors, the parameter determines which lamp's hours are reset. use (LRT1) to reset hours for lamp 1, or (LRT2) for lamp 2. On single lamp projectors any parameter can be used
Save User Preset Command	US1	N/A		Saves the current values of the following settings into the User preset: Brightness, Error! Reference source not found., Color Space, Color Temp, Color, Contrast, Error! Reference source not found., DynamicBlack
Scart Type	SCA	Range: 0-1		
Screen Save Time Setting	SSV	RANGE: 0-6, Default: 0 (Default for DLP Projectors) Default: 4 (Default for LCD Projectors)		0: Never 1: 5 minutes 2: 10 minutes 3: 15 minutes 4: 20 minutes 5: 25 minutes 6: 30 minutes
Search Screen Setting	DSU	RANGE: 0-4, Default: 0		0: Factory Logo 1: Blue 2: Snapshot 3: Black 4: White
Serial Port Baud Rate First Serial Port Second Serial Port Third Serial Port	BR1 BR2 BR3	RANGE: 0-8, Default: 7		0: Sets speed to 2400 baud 1: Sets speed to 4800 baud 2: Sets speed to 9600 baud 3: Sets speed to 14400 baud 4: Sets speed to 19200 baud 5: Sets speed to 38400 baud 6: Sets speed to 57600 baud 7: Sets speed to 115200 baud 8: Sets speed to 1200 baud
Serial Port Count Setting	SPC	N/A	Read Only	Returns the number of serial ports in the projector
Sharpness Setting	SHP	RANGE: 0-4, Default: 2		0: Maximum Sharpening 1: Minor Sharpening 2: No sharpness filter is applied 3: Minor softening 4: Maximum softening
Show Messages Setting	DMG	RANGE: 0-1, Default: 1		0: Off 1: On
Sleep Timer Setting	SLT	RANGE: 0-3, Default: 0		0: Off 1: 2 Hrs 2: 4 Hrs 3: 6 Hrs
Source Advance - Computer Command	CAD	N/A		Cycles to the next enabled computer input source (skips video sources).
Source Enable or Disable	CE0-CE6			enable or disable commands (0 – disable, 1 – enable)
Source Info Setting	QAS	N/A	Read Only	Active Source
	QSF	N/A	Read Only	Signal Format
	QAR	N/A	Read Only	Aspect Ratio
	RES	N/A	Read Only	Resolution
	QVR	N/A	Read Only	Vertical Refresh Rate
	QHR	N/A	Read Only	Horizontal Refresh Rate
	QPC	N/A	Read Only	Pixel Clock

	QST	N/A	Read Only	Sync Type
	QCS	N/A	Read Only	Color Space
	QCG	N/A	Read Only	Color Gamut
Standby Power Save Setting	SPS	RANGE: 0-1, Default: 1		0: Normal 1: Maximum
Sync Threshold Setting	STH	RANGE: 0-100, Default: 39		
System State Setting	SYS	RANGE: 0-18, Default: 7	Read Only	1: Off 2: Startup 3: PIN 4: Search 7: Display 9: Blank Screen 12: Cooldown 17: Flash Update 18: Error
				0: A solid black image (RGB = 0, 0, 0) 1: A solid 50% gray image (RGB = 128, 128, 128) 2: A solid white image (RGB = 255, 255, 255) 3: A solid red image (RGB = 255, 0, 0) 4: A solid green image (RGB = 0, 255, 0) 5: A solid blue image (RGB = 0, 0, 255) 6: A solid yellow image (RGB = 255, 255, 0) 7: A solid magenta image (RGB = 255, 0, 255) 8: A solid cyan image (RGB = 0, 255, 255) 9: A focus pattern 10: A checkerboard pattern 11: A white ramp from 0 to full white 12: A red ramp from 0 to full red 13: A green ramp from 0 to full green 14: A blue ramp from 0 to full blue 15: Solid black image with centered white square 16: Solid black image with centered red square 17: Solid black image with centered green square 18: Solid black image with centered blue square 19: Solid black image with centered yellow square 20: Solid black image with centered magenta square 21: Solid black image with centered cyan square
Test Pattern Select Settings	TPS	RANGE: 0-21, Default: 9		
Take Snapshot Command	CAP	N/A		Captures the current image and allows it to be used as the search screen image, the blank screen image, or the custom help screen
Tracking Setting	MTS	RANGE: 0-100, Default: 50		Increasing the value increases the number of pixel clocks per horizontal sync. Decreasing the value decreases the number of clocks per horizontal sync.
Video Source Advance	VAD			Video Source Advance (VAD+ used to advance to next Video source)
Volume Setting	VOL	RANGE: 0-100, Default: 50		Increasing the value increases the volume. Decreasing the value decreases the volume.
White Peaking	WPK	RANGE: 0-100, Default: 100 . Computer Sources (Default for video sources is projector specific)		0: Disables white processing 100: Enables white processing

				<p>Escape codes:</p> <p>The following escape codes can be included in the text string</p> <p>\c - Initialize (Box Mode)</p> <p>\d - Initialize (Ticker Bottom Mode)</p> <p>\u - Initialize (Ticker Top Mode)</p> <p>\e - Solid Background</p> <p>\f - Transparent Background</p> <p>\l - Small Font Size</p> <p>\L - Large Font Size</p> <p>\n - New Line</p> <p>\a - Beep</p> <p>\tnnn - Timer</p> <p>\b - Start Blink</p> <p>\s - Stop Blink</p> <p>\" - Print a double quote character</p> <p>\' - Print a single quote character</p> <p>\\ - Print a backslash character</p> <p>Example: PRN"This is line 1\nThis is line 2"</p> <p>Note: Maximum number of characters between double quotes is 53</p>
Dynamic Messaging	PRN			