IN5312/IN5314 Control commands

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IMPORTANT: All commands must use **UPPER CASE LETTERS** otherwise the projector will not recognize the command.

Serial Communication Configuration

Visit our website at www.infocus.com/support for additional RS-232 settings and information.

To control this projector via RS-232, connect a null modem cable and set the control system serial port settings to match the following communication configuration.

RS-232 is not available when Network is selected in the Installation II >> Advanced menu. RS-232 must be selected. If Network is selected, these commands are accessible via Telnet port 23.

RS-232 Port Settings	
Setting	Value
Bits per second	19,200
Data bits	8
Parity	None
Stop bits	1
Flow control	None
Emulation	VT100

Command Format

All commands consist of 3 alpha characters followed by a request, all enclosed in parentheses. The request can be a read request (indicated by a "?") or a write request (indicated by 1 to 4 ASCII digits).

A read request example:

(AAA?) where

(starts the command

AAA denotes the command

? Denotes the read request

) ends the command

A read command returns the range and the current setting, for example:

Read Command Examples		
Function	*Command*	*Response*
Brightness	(BRT?)	(0-100,50)
Volume	(VOL?)	(0-8,4)
Lamp Hours	(LMP?)	(0-9999,42)

A write request example:

(AAA####) where

(starts the command

AAA denotes the command

denotes the value to be written

(leading zeros not necessary)

) ends the command

Some commands have ranges, while others are absolute. If a number greater than the maximum range is received, it is automatically set to the maximum number for that function. If a command is received that is not understood, a "?" is returned. With absolute settings, "0" is off, 1-9999 is on. The one exception is the Power command, where 0 is off and 1 is on.

Write Command Examples		
Function	Command	Response
Brightness	(BRT100)	Sets brightness to 100
Power	(PWR0)	Turns power off
Power	(PWR1)	Turns power on

Error Conditions

Not all commands are supported for all projectors. If an unsupported command is issued, the command will be ignored. If a command is received that is not understood, a '?' character will be returned indicating the command was not understood.

Limitations

See delay limitations below:

- 10 second delay after lamp ignition
- 3 second delay after changing sources
- 10 second delay after a power down
- 25ms Inter-command delay
- 10ms Inter-character delay

The Step column refers to increasing or decreasing the menu bar position since the On-screen Display is not an exact match of values. For example, Step 2 changes the data by 2 through the CLI (Command Line Interface). The menu bar is up (or down) by 1.

Function	Command	Read/Write	Min	Max	Default	Step	Parameter	Note
AC Power On	APO	RW	0	1	0	1	0: Disable; 1: Enable	
Aspect Ratio	ARZ	RW	0	5	0	1	0: Fill 1: 4:3 2: 16:9 3: Letterbox 4: Native 5: 16:10	
Auto Image	AIM	W	n/a	1	1	1	1: Perform Auto Image	
Auto Off Time	AOT	RW	0	6	6	1	0: Never 1: 5 minutes 2: 10 minutes 3: 15 minutes 4: 20 minutes 5: 25 minutes 6: 30 minutes	
Auto Source	ASC	RW	0	1	1	1	0: Disable; 1: Enable	
Blank Screen	BLK	RW	0	1	0	1	0: Disable; 1: Enable	
Brightness	BRT	RW	0	100	50	1		Only available when User Preset is selected.
Ceiling	CEL	RW	0	3	0	1	0: Table Top 1: Ceiling 2: Rear 3: Ceiling Rear	
Closed Captions: Non-Muted	CLC	RW	0	2	0	1	0: Off 1: CC1 2: CC2	
Color	CLR	RW	0	100	50	1		Only available when a Standard TV source is selected (Composite or S-Video) and User Preset is selected.
Color Space	CSM	RW	0	3	0	1	0: Auto 1: RGB 2: YCrCb 3: YPrPb	Only available when User Preset is selected.
Color Temp	TMP	RW	0	2	Source Specific	2	0: Cold 1: Normal 2: Warm	Only available when User Preset is selected.

Function	Command	Read/Write	Min	Max	Default	Step	Parameter	Note
Contrast	CON	RW	0	100	50	1		Only available when User Preset is selected.
Current Source	SRC	RW	0	9	0	1	0: VGA1 1: VGA2 2: HDMI 3: DVI 4: RGBHV 5: Component 6: S-Video 7: Composite	
Digital Zoom	DZM	RW	-10	10	0	1	-10: 90% to 10: 110%	
Error Condition	ERR	R	0	6	0	1	0: No error 1: Lamp not lit after 5 Attempts 3: Lamp went out unexpectedly 4: Fan failure 5: Over-temperature 6: Low voltage	
Factory Reset	RST	W	n/a	1	1	1	1: reset	
Freeze Screen	FRZ	RW	0	1	0	1	0: Disable; 1: Enable	
Gamma	GTB	RW	0	7	Source Specific	1	0: PC 1: MAC 2: Video 3: Chart 4: B&W	Only available when User Preset is selected.
Horz. Position	HPS	RW	-5	5	0	1		Only available for computer sources
Lamp Hours in High Power Mode	LMO	R	0	9999	na	1		
Lamp Hours in Low Power Mode	LME	R	0	9999	na	1		
Lamp Life	LIF	R	n/a	1500				
Lamp Resets (Total number)	LMR	R	0	9999	0	1		
Lamp Low Power	IPM	RW	0	1	0	1	0: Disable; 1: Enable	

Function	Command	Read/Write	Min	Max	Default	Step	Parameter	Note
Language	LAN	RW	0	22	0 (5 for China models)	1	0: English 1: French 2: German 3: Spanish 4: Portuguese 5: Simple Chinese 6: Traditional Chinese 7: Italian 8: Norwegian 9: Swedish 10: Dutch 11: Kazakh 12: Finnish 13: Korean 14: Arabic 15: Turkish 16: Japanese 17: Brazilian Portuguese 18: Russian 19: Vietnamese 20: Danish 21: Polish 22: Bahasa	
Menu	MNU	RW	0	1	0	1	0: Clear; 1: Display	
Menu Navigation	NAV	W	0	5	n/a	1	0: Menu Key 1: Up Key 2: Down Key 3: Select Key 4: Left Key 5: Right Key	
Menu Transparency	TOE	RW	0	90	0	5	0: 0% 1: 20% 2: 40% 3: 60% 4: 80%	
Mute	MTE	RW	0	1	0	1	0: Disable; 1: Enable	
Overscan	OVS	RW	0	1	0	1	0: Disable; 1: Enable	
Phase	MSS	RW	0	31	na	1		Only available for computer sources
Power	PWR	RW	0	1	0	1	0: Turn Off 1: Turn On	

Function	Command	Read/Write	Min	Max	Default	Step	Parameter	Note
Presets	PST	RW	0	6	source Specific	1	0: Presentation 1: Bright 2: Game 3: Movie 4: TV 5: sRGB 6: User	Cooresponds to Display Mode in menu.
Projector Firmware Ver.	FVS	R	string					
Projector High Power Hours	LTO	R	0	9999	na	1		
Projector Info menu	PRI	W		1		1	1: Display Info	
Projector Low Power Hours	LTE	R	0	9999	na	1		
Projector Model	MDL	R	string					
Projector Resolution	NRS	R	string					
Projector Total Hours	LMT	R	0	9999	na	1		
Reset Lamp Hours	LRT	W		1	n/a	1	1: Reset Lamp Hours	
Search Screen	DSU	RW	0	4	0	1	0: Blue 1: Black 2: White 3: Red 4: Green	
Sharpness	SHP	RW	0	100	0	3		Only available when a Standard TV source is selected (Composite or S-Video) and User Preset is selected.
System State	SYS	R	1	18	7	1	0: Off 2: Start Up 3: PIN 4: Search 7: Source Displayed 9: Blank Screen 12: Cool Down 13: Screen Save 17: Flash Update 18: Error	
Tint	TNT	RW	0	100	50	1		Only available when a Standard TV source is selected (Composite or S-Video) and User Preset is selected.
Tracking	MTS	RW	-5	5	0	1		Only available for computer sources

Function	Command	Read/Write	Min	Max	Default	Step	Parameter	Note
Vert. Keystone	DKV	RW	-30	30	0	1		
Vert. Position	VPS	RW	-5	2	0	1		Only available for computer sources
Volume	VOL	RW	0	8	4	1		

*Under some conditions, this setting or command will return an error when used with CLI/CLX. Some examples:
 - Writing to Brightness will fail unless the projector is displaying a source and user Display Mode is selected
 - Writing to video only functions will fail when computer source is displayed.
For details, see the CLI/CLX Prefix section for the specific setting or command.