IN5316HD/IN5318 Control commands

IMPORTANT: When formatting commands sent from a control system or computer, enclose commands in parentheses "(" and ")".

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	
Setting	Value
Bits per second	19,200
Data bits	8
Parity	None
Stop bits	1
Flow control	None
Emulation	VT100

Command Format

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.

RS232 commands

No	Function	Command	RW	Min	Max	Default	Step	Parameter
1	AC Power On (Auto power on)	APO	RW	0	1	0	1	0: Disable; 1: Enable
2	Aspect Ratio	ARZ	RW	0	5	0	1	Delta: 0:Auto 1:Native 2:4:3 3:16:9 4:Letterbox 5:16:10
3	Auto Image	AIM	W	n/a	1	1	1	1: Enable
4	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
5	Auto Source	ASC	RW	0	1	1	1	0: Disable; 1: Enable
6	Blank Screen	BLK	RW	0	1	0	1	0: Disable; 1: Enable
7	Brightness	BRT	RW	0	100	50	1	Display Mode=User only
8	Ceiling (Projection mode)	CEL	RW	0	3	0	1	0:Front 1:Rear 2:Ceiling 3:Ceiling+Rear
9	Closed Captions: Non-Muted	CLC	RW	0	1	0	1	Delta : Off On (CC1)
10	Color	CLR	RW	0	100	50	1	Video SVideo only
11	Color Space	CSM	RW	0	3	0	1	Display Mode=User only 0:Auto 1:RGB 2:YCbCr 3:YPbPr

12	Color Temp	TMP	RW	0	2	Source Specific	1	Display Mode=User only 0:Warm 1:Normal 2:Cool 3:Cooler 4:High Cool
13	Contrast	CON	RW	0	100	50	1	Display Mode=User only
14	Current Source	SRC	RW	0	7	0	1	Delta: 0 = VGA1 1 = VGA2 2 = HDMI 3 = DisplayPort 4 = RGBHV 5 = Component 6 = S-Video 7 = Composite
15	Digital Zoom	DZM	RW	-10	10	0	5	Delta: -10~10
16	Error Condition	ERR	R	0	6	0	1	Delta: 0: No error 1: Lamp not lit after 5 Attempts 3: Lamp went out unexpectedly 4: Fan failure 5: Over-temperature 8: DMD error 9: Color wheel
17	Factory Reset	RST	W	n/a	1	1	1	1: reset
18	Freeze Screen	FRZ	RW	0	1	0	1	0: Disable
19	Gamma	GTB	RW	0	6	Source Specific	1	Display Mode=User only
20	Horz. Position	HPS	RW	0	100	x	1	RGB source only (HPS?) to get range

21	Lamp Hours in High Power Mode	LMO	R	0	9999			This Read only query tells how many hours the lamp has been operated in Normal
22	Lamp Hours in Low Power Mode	LME	R	0	9999			This Read only query tells how many hours the lamp has been operated in Eco
23	Lamp Life	LIF	R	n/a	1500			Delta: 330W lamp life 1500
24	Lamp Resets (Total number)	LMR	R	0	9999	0	1	This Read only query tells how many times the lamp hours have been reset.
25	Lamp Low Power	IPM	RW	0	1	0	1	This Read/Write command sets the lamp to low power 0 = Normal, 1 = Eco
26	Language	LAN	RW	0	18	0	1	Delta: 0: English 1: French 2: German 3: Italian 5: Korean 6: Norwegian 7: Portuguese 8: Russian 9: Simp Chinese 10: Spanish 11: Trad Chinese 12: Swedish 13: Dutch 14: Polish 15: Turkish 16: Danish 17: Finnish 18: Bahasa
27	Menu	MNU	RW	0	1	0	1	0: Clear; 1: Display

28	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
29	Mute	MTE	RW	0	1	0	1	0: disable; 1: enable
30	Overscan	OVS	RW	0	1	0	1	Delta : On / Off
31	Phase(Frequency)	MSS	RW	0	100	x	1	RGB source only
32	Power	PWR	RW	0	1	0	1	0: Turn Off 1: Turn On
33	Presets	PST	RW	0	17	source Specific	1	Delta :Display mode 1: User 10: Bright 14: Movie 15: Normal 16: User 2 17: User 3
34	Projector Firmware Ver.	FVS	R	string				PWDxx
35	Projector High Power Hours	LTO	R	0	9999			This Read Only query will return the total amount of hours the projector has run in Normal power with all lamps, total projection time in high power.
36	Projector Info menu	PRI	W		1		1	1: Display Status Menu

37	Projector Low Power Hours	LTE	R	0	9999			This Read Only query will return the total amount of hours the projector has run in Eco power with all lamps, total projection time in low power.
38	Projector Model	MDL	R	string				IN5316HD / IN5318
39	Projector Resolution	NRS	R	string				1920x1080 1920x1200[RB]
40	Projector Total Hours	LMT	R	0	9999		1	
41	Reset Lamp Hours	LRT	RW	1	2	n/a	1	Delta: Reset Lamp Hour
42	Search Screen	DSU	RW	0	7	0	1	Delta OSD tree: 1: Blue 3: Black 7: Purple
43	Sharpness	SHP	RW	0	100	0	x	If Delta is going to use a scale then that scale should go to 100 with a step size of 3 (0,3,6,9,12,15……100)
44	System State	SYS	R	0	18	0	1	Delta: 1 = Off 2 = Startup 4 = Search (Lamp is lighted, no input displayed) 7 = Source Displayed (Lamp is lighted, input displayed) 12 = Cool Down 18 = Error
45	Tint	TNT	RW	0	100	50	1	

46	Tracking	MTS	RW	0	100	50	1	RGB source only
47	Vert. Keystone	DKV	RW	0	100	50	1	
48	Vert. Position	VPS	RW	0	100	50	1	RGB source only (VPS?) to get range (VPS+) (VPS-)
49	Volume	VOL	RW	0	100	50	10	