IN5122/IN5124

Touchboards

205 Westwood Ave, Long Branch, NJ 07740
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InFocus
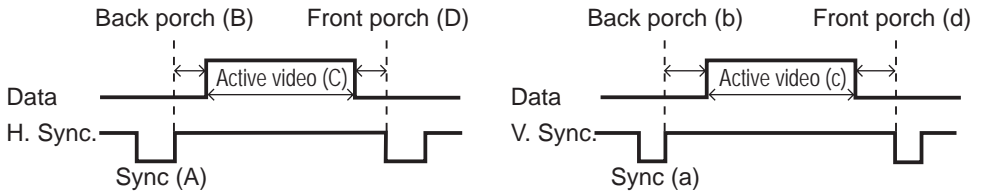
Bright Ideas Made Brilliant

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Projector

IN5122/IN5124
RS232 Command and Control Guide

The signals listed on the following pages are used for initial setup, however the signal timings of some computer models may be different. In such a case, adjust V POSITION and H POSITION in the IMAGE menu.

Back porch (B)   Front porch (D)   Back porch (b)   Front porch (d)

Active video (C)   Active video (c)

Data   Data

H. Sync.   V. Sync.

Sync (A)   Sync (a)

NOTES • Be sure to check jack type, signal level, timing and resolution before connecting this projector to a PC.
• Some PCs may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
• Depending on the input signal, full-size display may not be possible in some cases.
• Although the projector can display signals with resolution up to UXGA (1600x1200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and projector panel are identical.
• Automatic adjustment may not function correctly with some input signals.
• The image may not be displayed correctly when the input sync signal is a composite sync or a sync on G.

IN5122 Computer Mode Table

Resolution	Freq	Standard	DotCLK (MHz)	fH (KHz)	fV (Hz)	H Total (Pixels)	H Res (Pixels)	H Sync (Pixels)	H Back Porch (Pixels)	V Total (Lines)	V Res (Lines)	V Sync (Lines)	V Back Porch (Lines)
						C	A	B			c	a	b
720x400	70	VESA-DMT	28.322	31.469	70.087	900	720	108	54	449	400	2	35
640x480	60	VESA-DMT	25.175	31.469	59.940	800	640	96	48	525	480	2	33
640x480	67	Apple-Mac	30.240	34.970	66.670	864	640	64	96	525	480	3	39
640x480	72	VESA-DMT	31.500	37.861	72.809	832	640	40	128	520	480	3	28
640x480	75	VESA-DMT	31.500	37.500	75.000	840	640	64	120	500	480	3	16
800x600	56	VESA-DMT	36.000	35.156	56.250	1024	800	72	128	625	600	2	22
800x600	60	VESA-DMT	40.000	37.879	60.317	1056	800	128	88	628	600	4	23
800x600	72	VESA-DMT	50.000	48.077	72.188	1040	800	120	64	666	600	6	23
800x600	75	VESA-DMT	49.500	46.875	75.000	1056	800	80	160	625	600	3	21
832x624	75	Apple-Mac	57.256	49.702	74.515	1152	832	64	224	667	624	3	39
1024x768	60	VESA-DMT	65.000	48.363	60.004	1344	1024	136	160	806	768	6	29
1024x768	70	VESA-DMT	75.000	56.476	70.069	1328	1024	136	144	806	768	6	29
1024x768	75	VESA-DMT	78.750	60.023	75.029	1312	1024	96	176	800	768	3	28
1152x870	75	Apple-Mac	100.000	68.681	75.062	1456	1152	128	144	915	870	3	39
*1) 1280x720	60	VESA-GTF	74.481	44.760	60.000	1664	1280	136	192	746	720	3	22
1280x800	60	VESA-CVT	83.500	49.702	59.810	1680	1280	128	200	831	800	6	22
1280x1024	60	VESA-DMT	108.000	63.981	60.020	1688	1280	112	248	1066	1024	3	38
1280x1024	75	VESA-DMT	135.000	79.976	75.025	1688	1280	144	248	1066	1024	3	38
1440x900	60	VESA-CVT	106.500	55.935	59.887	1904	1440	152	232	934	900	6	25
1400x1050	60	VESA-CVT	121.750	65.317	59.978	1864	1400	144	232	1089	1050	4	32
1600x1200	60	VESA-DMT	162.000	75.000	60.000	2160	1600	192	304	1250	1200	3	46
1680X1050	60	VESA-CVT	146.250	65.290	59.954	2240	1680	176	280	1089	1050	6	30
1920x1080	60	VESA-GTF	172.798	67.080	60.000	2576	1920	208	328	1118	1080	3	34
*1) 1920x1200	60	"VESA-CVT Reduced Blanking"	154.000	74.038	59.950	2080	1920	32	80	1235	1200	6	26
*2) 1440 (720)x480i	60	EIA-861	27.000	15.734	29.970	1716	1440	124	114	525	480	4	15
*2) 720x480p	60	EIA-861	27.000	31.469	59.940	858	720	62	60	525	480	6	30
*2) 1440 (720)x576i	50	EIA-861	27.000	15.625	25.000	1728	1440	126	138	625	576	3	19
*2) 720x576p	50	EIA-861	27.000	31.250	50.000	864	720	64	68	625	576	5	39
*2) 1280x720p	50	EIA-861	74.250	37.500	50.000	1980	1280	40	220	750	720	5	20
*2) 1280x720p	60	EIA-861	74.250	45.000	60.000	1650	1280	40	220	750	720	5	20
*2) 1920x1080i	50	EIA-861	74.250	28.125	25.000	2640	1920	44	148	1125	1080	5	15
*2) 1920x1080i	60	EIA-861	74.250	33.750	30.000	2200	1920	44	148	1125	1080	5	15
*2) 1920x1080p	50	EIA-861	148.500	56.250	50.000	2640	1920	44	148	1125	1080	5	36
*2) 1920x1080p	60	EIA-861	148.500	67.500	60.000	2200	1920	44	148	1125	1080	5	36

*1) Supported except for HDMI input.
*2) Only supported on HDMI inputs.

IN5124 Computer Mode Table

| Resolution	Freq	Standard	DotCLK (MHz)	fH (KHz)	fV (Hz)	H Total (Pixels)	H Res (Pixels)	H Sync (Pixels)	H Back Porch (Pixels)	V Total (Lines)	V Res (Lines)	V Sync (Lines)	V Back Porch (Lines)
							C	A	B		c	a	b
720x400	70	VESA-DMT	28.322	31.469	70.087	900	720	108	54	449	400	2	35
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*1) 1280x800	75	VESA-CVT	106.500	62.795	74.934	1696	1280	128	208	838	800	6	29
1280x1024	60	VESA-DMT	108.000	63.981	60.020	1688	1280	112	248	1066	1024	3	38
1280x1024	75	VESA-DMT	135.000	79.976	75.025	1688	1280	144	248	1066	1024	3	38
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1600x1200	60	VESA-DMT	162.000	75.000	60.000	2160	1600	192	304	1250	1200	3	46
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*2) 1440 (720) x480i	60	EIA-861	27.000	15.734	29.970	1716	1440	124	114	525	480	4	15
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*2) 1280x720p	50	EIA-861	74.250	37.500	50.000	1980	1280	40	220	750	720	5	20
*2) 1280x720p	60	EIA-861	74.250	45.000	60.000	1650	1280	40	220	750	720	5	20
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*2) 1920x1080p	60	EIA-861	148.500	67.500	60.000	2200	1920	44	148	1125	1080	5	36

*1) Supported except for HDMI input.
*2) Only supported on HDMI inputs.

Connection to the ports

NOTICE ►Use the cables with straight plugs, not L-shaped ones, as the input ports of the projector are recessed.
►Only the signal that is input from the **COMPUTER IN1** or **IN2** can be output from the **MONITOR OUT** port.
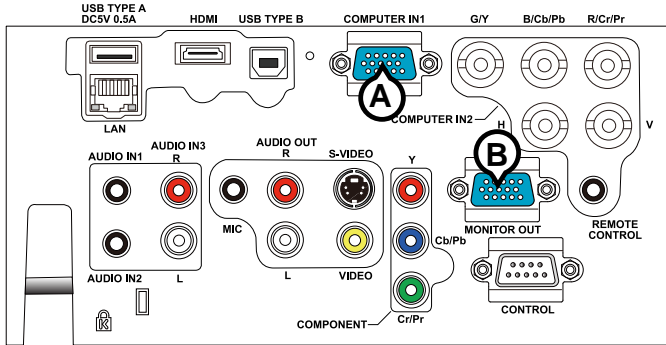
## Ⓐ**COMPUTER IN1,** Ⓑ**MONITOR OUT**

D-sub 15pin mini shrink jack

<Computer signal>
• Video signal: RGB separate, Analog, 0.7Vp-p, 75Ω terminated (positive)
• H/V. sync. signal: TTL level (positive/negative)
• Composite sync. signal: TTL level

<Component video signal>
• Video signal:
 -Y, Analog, 1.0±0.1Vp-p with composite sync, 75Ω terminated
 -Cb/Pb, Analog, 0.7±0.1Vp-p, 75Ω terminated
 -Cr/Pr, Analog, 0.7±0.1Vp-p 75Ω terminated
• System: 480i@60, 480p@60, 576i@50, 720p@50/60, 1080i@50/60
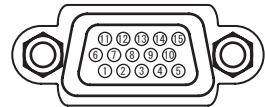
Pin	Signal	Pin	Signal
1	Video Red, Cr/Pr	9	(No connection)
2	Video Green, Y	10	Ground
3	Video Blue, Cb/Pb	11	(No connection)
4	(No connection)	12	Ⓐ: SDA (DDC data), (No connection)
5	Ground		Ⓑ: (No connection)
6	Ground Red, Ground Cr/Pr	13	H. sync / Composite sync., (No connection)
7	Ground Green, Ground Y	14	V. sync., (No connection)
8	Ground Blue, Ground Cb/Pb	15	Ⓐ: SCL (DDC clock), (No connection)
			Ⓑ: (No connection)

4
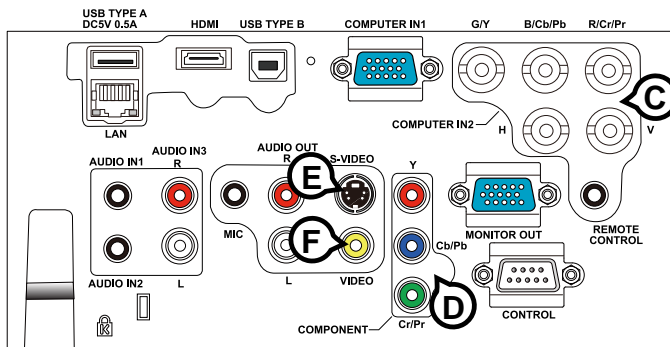
©COMPUTER IN2 (G/Y, B/Cb/Pb, R/Cr/Pr, H, V)

• BNC jack x 5
• Video : Analog 0.7Vp-p, 75Ω terminator
• H/V, sync, : TTL level (positive/negative)
• Composite sync, : TTL level

⒟COMPONENT (Y, Cb/Pb, Cr/Pr)

RCA jack x3
• System: 480i@60, 480p@60, 576i@50, 720p@50/60, 1080i@50/60, 1080p@50/60

| Port	Signal
Y	Component video Y, 1.0±0.1Vp-p with composite sync, 75Ω terminator
Cb/Pb	Component video Cb/Pb, 0.7±0.1Vp-p, 75Ω terminator
Cr/Pr	Component video Cr/Pr, 0.7±0.1Vp-p, 75Ω terminator

⒠S-VIDEO

Mini DIN 4pin jack

• System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL(60Hz)

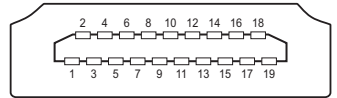| Pin	Signal
1	Color signal 0.286Vp-p (NTSC, burst), 75Ω terminator Color signal 0.300Vp-p (PAL/SECAM, burst) 75Ω terminator
2	Brightness signal, 1.0Vp-p, 75Ω terminator
3	Ground
4	Ground

⒡VIDEO

RCA jack
• System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL(60Hz)
• 1.0±0.1Vp-p, 75Ω terminator
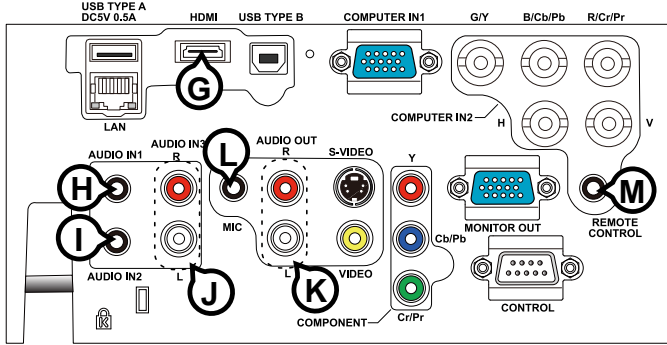
ⒼHDMI

• Type :Digital audio/video connector
• Audio signal : Linear PCM (Sampling rate; 32/44.1/48 kHz)

Pin	Signal	Pin	Signal	Pin	Signal
1	T.M.D.S. Data2 +	8	T.M.D.S. Data0 Shield	15	SCL
2	T.M.D.S. Data2 Shield	9	T.M.D.S. Data0 -	16	SDA
3	T.M.D.S. Data2 -	10	T.M.D.S. Clock +	17	DDC/CEC Ground
4	T.M.D.S. Data1 +	11	T.M.D.S. Clock Shield	18	+5V Power
5	T.M.D.S. Data1 Shield	12	T.M.D.S. Clock -	19	Hot Plug Detect
6	T.M.D.S. Data1 -	13	CEC		
7	T.M.D.S. Data0 +	14	Reserved(N.C. on device)		

* HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or
  registered trademarks of HDMI Licensing LLC in the United States and other countries.

ⒽAUDIO IN1, ⒤AUDIO IN2

Ø3.5 stereo mini jack
• 200 mVrms, 47kΩ terminator

⒥AUDIO IN3 (R, L)

RCA jack x2
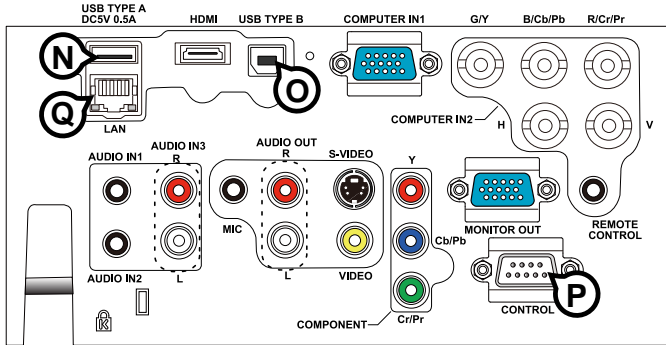• 200 mVrms, 47kΩ terminator

ⓀAUDIO OUT (R, L)

RCA jack x2
• 200 mVrms, 1kΩ output impedance

ⓁMIC

Ø3.5 mono mini jack
<Low level>
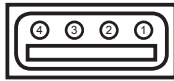• 2 mVrms, 1kΩ terminator
<High level>
• 20 mVrms, 1kΩ terminator

ⓂREMOTE CONTROL

Ø3.5 stereo mini jack

Ⓝ**USB TYPE A**

USB A type jack

Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground

Ⓞ**USB TYPE B**

USB B type jack

Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground

Ⓟ**CONTROL**

D-sub 9pin plug

• About the details of RS-232 communication,
 please refer to the section "RS-232 Communication".
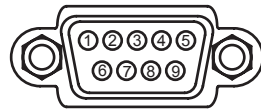
Pin	Signal	Pin	Signal	Pin	Signal
1	(No connection)	4	(No connection)	7	RTS
2	RD	5	Ground	8	CTS
3	TD	6	(No connection)	9	(No connection)

Ⓠ**LAN**

RJ-45 jack

Pin	Signal	Pin	Signal	Pin	Signal
1	TX+	4	-	7	-
2	TX-	5	-	8	-
3	RX+	6	RX-		

To input SCART RGB signal;

ex.

SCART
connector
(jack)

SCART

SCART cable
(plug)

USB TYPE A
DC5V 0.5A   HDMI   USB TYPE B   COMPUTER IN1   G/Y   B/Cb/Pb   R/Cr/Pr

RCA plugs

LAN   COMPUTER IN2   H   V

AUDIO IN3
R   AUDIO OUT
R   S-VIDEO   Y

AUDIO IN1   MONITOR OUT   REMOTE
CONTROL

MIC   Cb/Pb

AUDIO IN2   L   L   VIDEO

CONTROL

COMPONENT   Cr/Pr
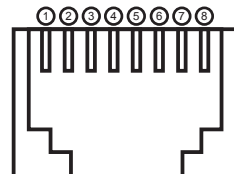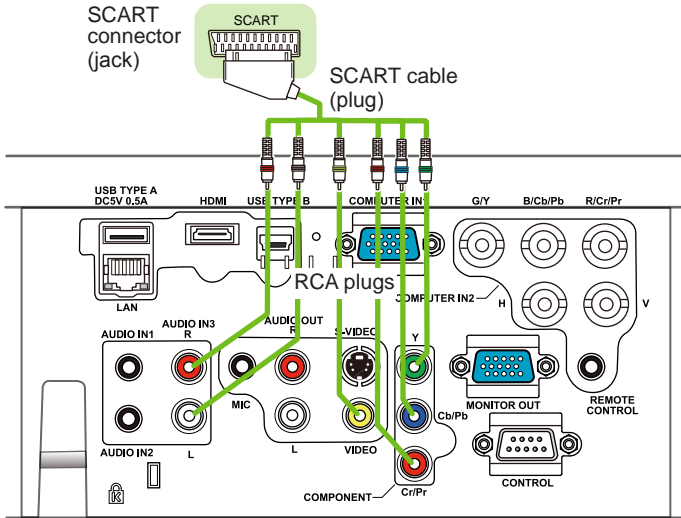
To input SCART RGB signal to the projector, use a SCART to RCA cable. Connect the plugs refer to above example. For more reference, please consult your dealer.

RS-232 Communication

When the projector connects to the computer by RS-232 communication, the projector can be controlled with RS-232 commands from the computer.

For details of RS-232 commands, refer to RS-232 Communication / Network command table (📖 *16*).

Connection

1. Turn off the projector and the computer.

2. Connect the projector's **CONTROL** port and the computer's RS-232 port with a RS-232 cable (cross). Use the cable that fulfills the specification shown in figure

3. Turn the computer on, and after the computer has started up, turn the projector on.

4. Set the COMMUNICATION TYPE to OFF. (📖**OPTION menu - SERVICE - COMMUNICATION** in the **User's Manual**)

RS-232C Cable
(cross)

RS-232 port of the computer	**CONTROL** port of the projector
CD (1)	(1) --
RD(2)	(2) RD
TD (3)	(3) TD
DTR (4)	(4) --
GND (5)	(5) GND
DSR (6)	(6) --
RTS (7)	(7) RTS
DTS (8)	(8) CTS
RI (9)	(9) --
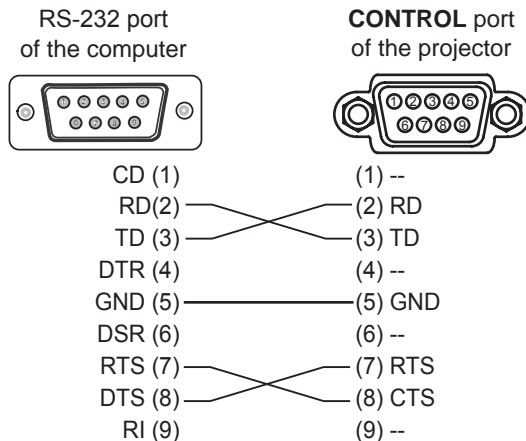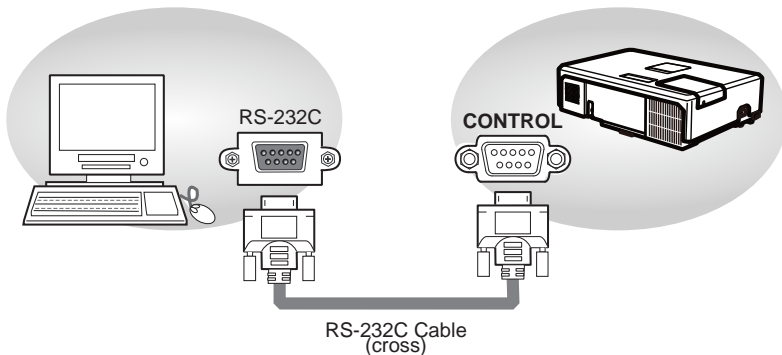
Command Control via the Network

When the projector is connected to the network, the projector can be controlled with RS-232 commands from the computer with a web browser.

For RS-232 command information, refer to the RS-232 Communication / Network command table (📖 *16*).

Connection

1. Turn off the projector and the computer.

2. Connect the projector's **LAN** port and the computer's LAN port with a LAN cable. Use the cable that fulfills the specification shown in figure (Use CAT-5 or greater LAN Cable when LAN ports are used)

3. Turn the computer on, and after the computer has started up, turn the projector on.

LAN cable (CAT-5 or greater)
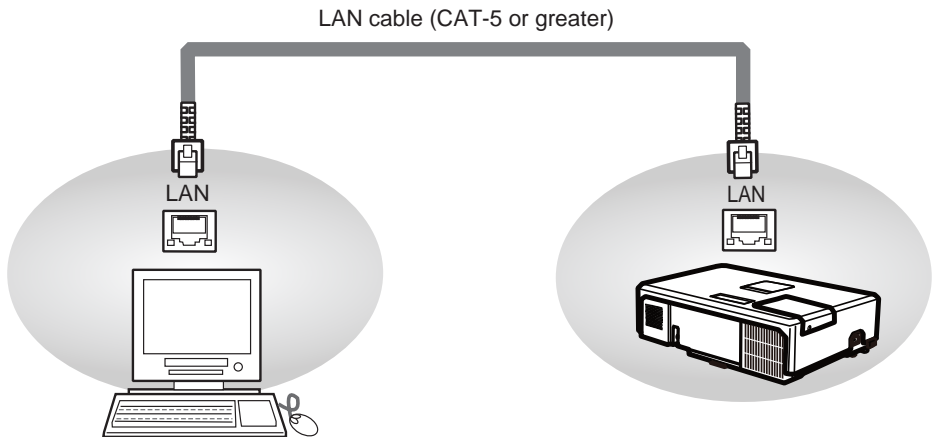
Communication Port

The following port is assigned for command control.

TCP #23

Configure the following items from a web browser when command control is used.

Port Settings			
Network Control Port1 (Port: 23)	Port open	Click the **[Enable]** check box to open **[Network Control Port1 (Port: 23)]** to use TCP #23. Default setting is "Enable".
	Authentication	Click the **[Enable]** check box for the **[Authentication]** setting when authentication is required. Default setting is "Disable".

When the authentication setting is enabled, the following settings are required.

Security Settings		
Network Control	Authentication Password	Enter the desired authentication password. This setting will be the same for **[Network Control Port1 (Port: 23)]**. Default setting is blank.
	Re-enter Authentication Password	

RS-232 Commands

IMPORTANT: When formatting commands sent from a control system or computer, enclose commands in parentheses "(" and ")". When entering custom commands into Scheduled Tasks in the projector's web interface, enclose commands in less than/ greater than symbols "<" and ">" instead.

Communication Configuration

Visit our website 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 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?)	(96-160, 128)
Volume	(VOL?)	(0-32, 0)
Lamp Hours	(LMP?)	(0-32766, 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.

To assure the projector can process a command, wait 3 seconds before entering the next command.

Read Command Examples		
Function	Command	Response
Brightness	(BRT140)	Sets the brightness to 140
Power	(PWR0)	Turns power on
Power	(PWR1)	Turns power off

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
The projector cannot respond to commands coming in at a high-rate. Therefore, a delay must occur between commands to ensure that the command gets properly executed. To assure the projector can process a command, wait 3 seconds before entering the next command.

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.

Network Bridge Communication

This projector is equipped with NETWORK BRIDGE function.
When the projector connects to the computer by LAN communicaton, an external device that is connected with this projector by RS-232 communication can be controlled from the computer as a network terminal.
For details, see the **6. Network Bridge function** in the **Network Guide**.

Connection

1. Connect the computer's LAN port and the projector's **LAN** port with a LAN cable.

2. Connect the projector's **CONTROL** port and the RS-232 port of the devices that you want to control with a RS-232 cable.

3. Turn the computer on, and after the computer has started up, turn the projector on.

4. Set the COMMUNICATION TYPE to NETWORK BRIDGE. (**OPTION menu - SERVICE - COMMUNICATION** in the **User's Manual**)
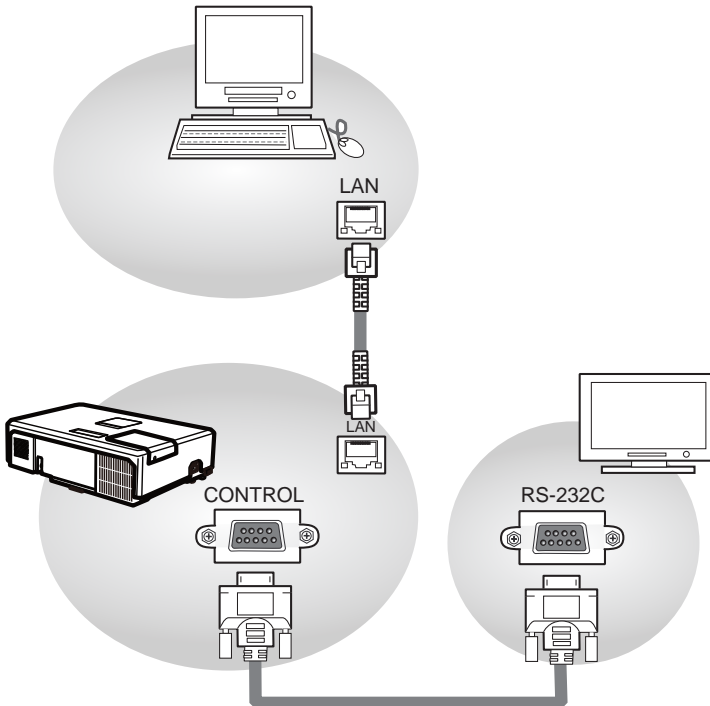
Communication settings

For communication setting, use the OPTION - SERVICE - COMMUNICATION
menu. (&**OPTION menu - SERVICE - COMMUNICATION** in the **User's Manual**)

Item	Condition
BAUD RATE	4800bps / 9600bps / 19200bps / 38400bps
Data length	8 bit (fixed)
PARITY	NONE/ODD/EVEN
Start bit	1 bit (fixed)
Stop bit	1 bit (fixed)
Transmission method	HALF-DUPLEX/FULL-DUPLEX

NOTE • For connecting the projector to your devices, please read the
manual for each devices, and connect them correctly with suitable cables.
• Power off the projector and other devices and unplug them before
connecting them.
• For details of Transmission method, refer to **6.4 Transmission method** in
the **Network Guide**.

RS-232 Communication / Network command table

Function	Command	RW	Min	Max	Default	Step
BASIC MENU						
Aspect Ratio 0: Auto 1: Native (IN5124 only) 2: 4:3 3: 16:9 6: 16:10	ARZ	RW	0	6	0	
Auto Keystone Execute 1: Execute	AVK	W	0	1	n/a	
Horizontal Keystone	DKH	RW	38	218	128	1
Vertical Keystone	DKV	RW	38	218	128	1
Corner Correction Enable 0: Disable 1: Enable	CNE	RW	0	1	0	
Corner Correction Top Left corner -H	CN1	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Top Left corner -V	CN2	RW	0	550	0	1
Corner Correction Top Right corner -H	CN3	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Top Right corner -V	CN4	RW	0	550	0	1
Corner Correction Bottom Left corner - H	CN5	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Bottom Left corner - V	CN6	RW	0	550	0	1
Corner Correction Bottom Right corner - H	CN7	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Bottom Right corner - V	CN8	RW	0	550	0	1
Corner Correction all corners reset 1: enable	CNR	RW	0	1	n/a	
Side Correction Left Gain	SC1	RW	98	158	128	1
Side Correction Right Gain	SC2	RW	98	158	128	1
Side Correction V Position	SC3	RW	0	768 (IN5122) 800 (IN5124)	384 (IN5124) 400 (IN5124)	1
Side Correction Top Gain	SC4	RW	98	158	128	1
Side Correction Bottom Gain	SC5	RW	98	158	128	1
Side Correction H Position	SC6	RW	0	1024 (IN5122) 1280 (IN5124)	512 (IN5124) 640 (IN5124)	1
Side Correction All Reset 1: enable	SCR	W	0	1	n/a	

Function	Command	RW	Min	Max	Default	Step
Presets 1: User 5: Presentation 7: Video 10: Bright 11: Whiteboard 12: Blackboard 13: Greenboard 15: Dynamic	PST	RW	1	15	5 (Computer in 1) 5 (Computer in 2) 5 (LAN) 5 (USB Type A) 5 (USB Type B) 15 (HDMI) 15 (Component) 15 (S-Video) 15 (Video)	
Low Power 0: Disable 1: Enable	LPE	RW	0	1	0	
Ceiling 0: Disable 1: Enable	CEL	RW	0	1	0	
Rear 0: Disable 1: Enable	REA	RW	0	1	0	
Basic Menu Reset 1: Execute	MRT	w	0	1	n/a	
Reset Filter Hours 1: Reset	FRT	W	0	1	n/a	
Language 0: English 1: French 2: German 3: Italian 5: Korean 6: Norwegian 7: Portuguese 8: Russian 9: Simplified Chinese 10: Spanish 11: Traditional Chinese 12: Swedish 13: Dutch 14: Polish 15: Turkish 16: Danish 17: Finnish	LAN	RW	0	17	0	
ADVANCED MENU: PICTURE						
Brightness	BRT	RW	96	160	128	1
Contrast	CON	RW	96	160	128	1

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Function	Command	RW	Min	Max	Default	Step
Gamma 32: 1 Default 16: 1 Custom 33: 2 Default 17: 2 Custom 34: 3 Default 18: 3 Custom 35: 4 Default 19: 4 Custom 36: 5 Default 20: 5 Custom 37: 6 Default 21: 6 Custom	GTB	RW	16	37	32 (Computer in 1) 32 (Computer in 2) 32 (LAN) 32 (USB Type A) 32 (USB Type B) 34 (HDMI) 34 (Component) 34 (S-Video) 34 (Video)	
Gamma Pattern 0: Off 1: 9 steps gray scale 2: 15 steps gray scale 3: Ramp	GTP	RW	0	3	0	
Gamma Custom-1 Point 1	G11	RW	112	144	128	1
Gamma Custom-1 Point 2	G12	RW	112	144	128	1
Gamma Custom-1 Point 3	G13	RW	112	144	128	1
Gamma Custom-1 Point 4	G14	RW	112	144	128	1
Gamma Custom-1 Point 5	G15	RW	112	144	128	1
Gamma Custom-1 Point 6	G16	RW	112	144	128	1
Gamma Custom-1 Point 7	G17	RW	112	144	128	1
Gamma Custom-1 Point 8	G18	RW	112	144	128	1
Gamma Custom-2 Point 1	G19	RW	112	144	128	1
Gamma Custom-2 Point 2	G20	RW	112	144	128	1
Gamma Custom-2 Point 3	G21	RW	112	144	128	1
Gamma Custom-2 Point 4	G22	RW	112	144	128	1
Gamma Custom-2 Point 5	G23	RW	112	144	128	1
Gamma Custom-2 Point 6	G24	RW	112	144	128	1
Gamma Custom-2 Point 7	G25	RW	112	144	128	1
Gamma Custom-2 Point 8	G26	RW	112	144	128	1
Gamma Custom-3 Point 1	G27	RW	112	144	128	1
Gamma Custom-3 Point 2	G28	RW	112	144	128	1
Gamma Custom-3 Point 3	G29	RW	112	144	128	1
Gamma Custom-3 Point 4	G30	RW	112	144	128	1
Gamma Custom-3 Point 5	G31	RW	112	144	128	1
Gamma Custom-3 Point 6	G32	RW	112	144	128	1
Gamma Custom-3 Point 7	G33	RW	112	144	128	1
Gamma Custom-3 Point 8	G34	RW	112	144	128	1
Gamma Custom-4 Point 1	G35	RW	112	144	128	1
Gamma Custom-4 Point 2	G36	RW	112	144	128	1
Gamma Custom-4 Point 3	G37	RW	112	144	128	1
Gamma Custom-4 Point 4	G38	RW	112	144	128	1
Gamma Custom-4 Point 5	G39	RW	112	144	128	1
Gamma Custom-4 Point 6	G40	RW	112	144	128	1

Function	Command	RW	Min	Max	Default	Step
Gamma Custom-4 Point 7	G41	RW	112	144	128	1
Gamma Custom-4 Point 8	G42	RW	112	144	128	1
Gamma Custom-5 Point 1	G43	RW	112	144	128	1
Gamma Custom-5 Point 2	G44	RW	112	144	128	1
Gamma Custom-5 Point 3	G45	RW	112	144	128	1
Gamma Custom-5 Point 4	G46	RW	112	144	128	1
Gamma Custom-5 Point 5	G47	RW	112	144	128	1
Gamma Custom-5 Point 6	G48	RW	112	144	128	1
Gamma Custom-5 Point 7	G49	RW	112	144	128	1
Gamma Custom-5 Point 8	G50	RW	112	144	128	1
Gamma Custom-6 Point 1	G51	RW	112	144	128	1
Gamma Custom-6 Point 2	G52	RW	112	144	128	1
Gamma Custom-6 Point 3	G53	RW	112	144	128	1
Gamma Custom-6 Point 4	G54	RW	112	144	128	1
Gamma Custom-6 Point 5	G55	RW	112	144	128	1
Gamma Custom-6 Point 6	G56	RW	112	144	128	1
Gamma Custom-6 Point 7	G57	RW	112	144	128	1
Gamma Custom-6 Point 8	G58	RW	112	144	128	1
Color Temperature 0: 1 High 1: 1 Custom 2: 2 Mid 3: 2 Custom 4: 3 Low 5: 3 Custom 6: 4 Hi-Bright-1 7: 4 Custom 8: 5 Hi-Bright-2 9: 5 Custom 10: 6 Hi-Bright-3 11: 6 Custom	TMP	RW	0	11	2 (Computer in 1) 2 (Computer in 2) 2 (LAN) 2 (USB Type A) 2 (USB Type B) 0 (HDMI) 0 (Component) 0 (S-Video) 0 (Video)	
Color Temperature - 1 Red Gain	RG1	RW	96	160	128	1
Color Temperature - 2 Red Gain	RG2	RW	96	160	128	1
Color Temperature - 3 Red Gain	RG3	RW	96	160	128	1
Color Temperature - 4 Red Gain	RG4	RW	96	160	128	1
Color Temperature - 5 Red Gain	RG5	RW	96	160	128	1
Color Temperature - 6 Red Gain	RG6	RW	96	160	128	1
Color Temperature - 1 Green Gain	GG1	RW	96	160	128	1
Color Temperature - 2 Green Gain	GG2	RW	96	160	128	1
Color Temperature - 3 Green Gain	GG3	RW	96	160	128	1
Color Temperature - 4 Green Gain	GG4	RW	96	160	128	1
Color Temperature - 5 Green Gain	GG5	RW	96	160	128	1
Color Temperature - 6 Green Gain	GG6	RW	96	160	128	1
Color Temperature - 1 Blue Gain	BG1	RW	96	160	128	1
Color Temperature - 2 Blue Gain	BG2	RW	96	160	128	1
Color Temperature - 3 Blue Gain	BG3	RW	96	160	128	1
Color Temperature - 4 Blue Gain	BG4	RW	96	160	128	1
Color Temperature - 5 Blue Gain	BG5	RW	96	160	128	1

Function	Command	RW	Min	Max	Default	Step
Color Temperature - 6 Blue Gain	BG6	RW	96	160	128	1
Color Temperature - 1 Red Offset	RF1	RW	96	160	128	1
Color Temperature - 2 Red Offset	RF2	RW	96	160	128	1
Color Temperature - 3 Red Offset	RF3	RW	96	160	128	1
Color Temperature - 4 Red Offset	RF4	RW	96	160	128	1
Color Temperature - 5 Red Offset	RF5	RW	96	160	128	1
Color Temperature - 6 Red Offset	RF6	RW	96	160	128	1
Color Temperature - 1 Green Offset	GF1	RW	96	160	128	1
Color Temperature - 2 Green Offset	GF2	RW	96	160	128	1
Color Temperature - 3 Green Offset	GF3	RW	96	160	128	1
Color Temperature - 4 Green Offset	GF4	RW	96	160	128	1
Color Temperature - 5 Green Offset	GF5	RW	96	160	128	1
Color Temperature - 6 Green Offset	GF6	RW	96	160	128	1
Color Temperature - 1 Blue Offset	BF1	RW	96	160	128	1
Color Temperature - 2 Blue Offset	BF2	RW	96	160	128	1
Color Temperature - 3 Blue Offset	BF3	RW	96	160	128	1
Color Temperature - 4 Blue Offset	BF4	RW	96	160	128	1
Color Temperature - 5 Blue Offset	BF5	RW	96	160	128	1
Color Temperature - 6 Blue Offset	BF6	RW	96	160	128	1
Color	CLR	RW	96	160	128	1
Tint	TNT	RW	96	160	128	1
Sharpness	SHP	RW	125	131	128	1
Active Iris 0: Off 1: Presentation 2: Film	IRI	RW	0	2	1 1 (Computer in 1) 1 (Computer in 2) 1 (LAN) 1 (USB Type A) 1 (USB Type B) 2 (HDMI) 2 (Component) 2 (S-Video) 2 (Video)	
User Preset 1 0: Load 1: Save	US1	W	0	1	n/a	
User Preset 2 0: Load 1: Save	US2	W	0	1	n/a	
User Preset 3 0: Load 1: Save	US3	W	0	1	n/a	
User Preset 4 0: Load 1: Save	US4	W	0	1	n/a	

Function	Command	RW	Min	Max	Default	Step
ADVANCED MENU: IMAGE						
Aspect Ratio 0: Auto 1: Native (IN5124 Only) 2: 4:3 3: 16:9 6: 16:10	ARZ	RW	0	6	0	
Overscan 0: Off 1: Zoom 2: Crop	OVS	RW	0	2	0	
Vertical Position	VPS	RW	if def<128: 0 else: def -128	def +128	auto	1
Horizontal Position	HPS	RW	Def:-128	Def:+128	auto	1
Phase	MSS	RW	0	63	0	1
Tracking	MTS	RW	def: -384	def: +384	auto	2
Auto Image 0: n/a 1: enable	AIM	W	0	1	n/a	
ADVANCED MENU: INPUT						
Detect Film 0: Off 1: TV 2: Film	TTO	RW	0	2	1	
Video Noise Reduction 1: Low 2: Mid 3: High	NRL	RW	1	3	1 (HDMI) 2 (Video/ S-Video) 2 (Component)	
Color Space 0: RGB 1: REC709 2: REC601 3: RGB Video 4: Auto	CSM	RW	0	4	4	
Video Standard 0: Auto 1: NTSC 2: PAL 3: SECAM 4: NTSC4.43 5: M-PAL 6: N-PAL	VSU	RW	0	6	0	

Function	Command	RW	Min	Max	Default	Step
S-Video Standard 0: Auto 1: NTSC 2: PAL 3: SECAM 4: NTSC4.43 5: M-PAL 6: N-PAL	?	RW	0	6	0	
HDMI Format 0: Auto 1: Video 2: Computer		RW	0	2	0	
HDMI Range 0: Normal 1: Enhanced 16: Auto		RW	0	16	16	
Component 0: Component 1: Scart RGB		RW	0	1	0	
Computer in 1 0: SOG off 1: Auto 2: Video (only for Stack)	SG1	RW	0	2	1	
Computer in 2 0: SOG off 1: Auto 2: Video (only for Stack)	SG2	RW	0	2	1	
ADVANCED MENU: SETUP						
Auto Keystone ExEcute 1: Execute	AVK	W	0	1	n/a	
Horizontal Keystone	DKH	RW	38	218	128	1
Vertical Keystone	DKV	RW	38	218	128	1
Corner Correction Enable 0: Disable 1: Enable	CNE	RW	0	1	0	
Corner Correction Top Left corner -H	CN1	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Top Left corner -V	CN2	RW	0	550	0	1
Corner Correction Top Right corner -H	CN3	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Top Right corner -V	CN4	RW	0	550	0	1
Corner Correction Bottom Left corner -H	CN5	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Bottom Left corner -V	CN6	RW	0	550	0	1
Corner Correction Bottom Right corner -H	CN7	RW	0	511 (IN5122) 639 (IN5124)	0	1
Corner Correction Bottom Right corner -V	CN8	RW	0	550	0	1

Function	Command	RW	Min	Max	Default	Step
Corner Correction all corners Reset 0: n/a 1: enable	CNR	RW	0	1	n/a	
Side Correction Left Gain	SC1	RW	98	158	128	1
Side Correction Right Gain	SC2	RW	98	158	128	1
Side Correction V Position	SC3	RW	0	768 (IN5122) 800 (IN5124)	384(IN5124) 400(IN5124)	1
Side Correction Top Gain	SC4	RW	98	158	128	1
Side Correction Bottom Gain	SC5	RW	98	158	128	1
Side Correction H Position	SC6	RW	0	1024 (IN5122) 1280 (IN5124)	512(IN5124) 640(IN5124)	1
Side Correction All Reset 0: n/a 1: enable	SCR	W	0	1	n/a	
Low Power 0: Disable 1: Enable	LPE	RW	0	1	0	
Ceiling 0: Disable 1: Enable	CEL	RW	0	1	0	
Rear 0: Disable 1: Enable	REA	RW	0	1	0	
Power Saving Mode 0: Disable 1: Enable	SPS	RW	0	1	0	
Monitor Out for Source 0 (Computer in 1) 1: Computer in 1 255: Off	SM0	RW	1	255	1	
Monitor Out for Source 1 (Computer in 2) 2: Computer in 2 255: Off	SM1	RW	2	255	2	
Monitor Out for Source 2 (LAN) 1: Computer in 1 2: Computer in 2 255: Off	SM2	RW	1	255	1	
Monitor Out for Source 3 (USB Type A) 1: Computer in 1 2: Computer in 2 255: Off	SM3	RW	1	255	1	
Monitor Out for Source 4 (USB Type B) 1: Computer in 1 2: Computer in 2 255: Off	SM4	RW	1	255	1	

Function	Command	RW	Min	Max	Default	Step
Monitor Out for Source 5 (HDMI) 1: Computer in 1 2: Computer in 2 255: Off	SM5	RW	1	255	1	
Monitor Out for Source 6 (Component) 1: Computer in 1 2: Computer in 2 255: Off	SM6	RW	1	255	1	
Monitor Out for Source 7 (S-Video) 1: Computer in 1 2: Computer in 2 255: Off	SM7	RW	1	255	1	
Monitor Out for Source 8 (Video) 1: Computer in 1 2: Computer in 2 255: Off	SM8	RW	1	255	1	
Monitor Out for Standby 1: Computer in 1 2: Computer in 2 255: Off	SMS	RW	1	255	1	
ADVANCED MENU: AUDIO						
Volume for Source 0 (Computer in 1)	VL0	RW	0	48	24	1
Volume for Source 1 (Computer in 2)	VL1	RW	0	48	24	1
Volume for Source 2 (LAN)	VL2	RW	0	48	24	1
Volume for Source 3 (USB Type A)	VL3	RW	0	48	24	1
Volume for Source 4 (USB Type B)	VL4	RW	0	48	24	1
Volume for Source 5 (HDMI)	VL5	RW	0	48	24	1
Volume for Source 6 (Component)	VL6	RW	0	48	24	1
Volume for Source 7 (S-Video)	VL7	RW	0	48	24	1
Volume for Source 8 (Video)	VL8	RW	0	48	24	1
Volume for Standby	VLS	RW	0	48	24	1
Internal Speakers 0: Disable 1: Enable	INT	RW	0	1	1	

Function	Command	RW	Min	Max	Default	Step
Audio for Source 0 (Computer in 1) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA0	RW	0	5	0	
Audio for Source 1 (Computer in 2) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA1	RW	0	5	1	
Audio for Source 2 (LAN) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA2	RW	0	5	0	
Audio for Source 3 (USB Type A) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA3	RW	0	5	0	
Audio for Source 4 (USB Type B) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA4	RW	0	5	0	
Audio for Source 5 (HDMI) 0: Audio 1 1: Audio 2 2: Audio 3 4: HDMI Audio 5: Mute	SA5	RW	0	5	4	
Audio for Source 6 (Component) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA6	RW	0	5	2	
Audio for Source 7 (S-Video) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA7	RW	0	5	2	
Audio for Source 8 (Video) 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SA8	RW	0	5	2	
Standby Audio Out 0: Audio 1 1: Audio 2 2: Audio 3 5: Mute	SAS	RW	0	5	5	

Function	Command	RW	Min	Max	Default	Step
HDMI Noise Cancel 0: Disable 1: Enable	HNC	RW	0	1	1	
MIC Level 0: Low 1: High	MIK	RW	0	1	0	
MIC Volume	MIC	RW	0	48	24	1
ADVANCED MENU: SCREEN						
Menu Positon H	OFH	RW	0	10	0 (left)	1
Menu Positon V	OFV	RW	0	10	10 (top)	1
Blank Screen 0: Blue 3: Black 4: white 5: Factory Logo 6: SnapShot	BSS	RW	0	6	0	
Startup Logo 0: Factory Logo 1: Snapshot 2: Blank Screen	DSU	RW	0	2	0	
Capture Lock 0: Off 1: On	DCP	RW	0	1	0	
Display Messages 0: Disable 1: Enable	DMG	RW	0	1	1	
Ruled Lines 0: Lines on White 1: Lines on Black 2: Grids on White 3: Grids on Black 4: Circle on White 5: Circle on Black 6: Map 1 7: Map 2 8: Stack 9: Test Pattern	CRM	RW	0	9	0	
Closed Captions 0: Off 1: CC1 2: CC2	CLC	RW	0	2	0	
ADVANCED MENU: OPTION						
Auto Source 0: Disable 1: Enable	ASC	RW	0	1	1	
Auto Keystone Enable 0: Disable 1: Enable	AVE	RW	0	1	0	
AC Power On 0: Disable 1: Enable	APO	RW	0	1	0	

Function	Command	RW	Min	Max	Default	Step
Auto Power 0: Disable 1: Enable	AOT	RW	0	1	0	
USB Type B 0: Mouse 1: USB Display	USB	RW	0	1	1	
Custom Key (Effect) 0: Blank 1: Mute 2: Aspect Ratio 3: Source 4: Auto Image 5: Freeze 6: Magnify 7: Source Info 8: Service Info 15: AV Mute 18: Ruled Lines 19: Slideshow 20: MyImage 21: Messenger 22: Auto Keystone 23: Active Iris 24: Re	EFK	RW	0	27	7	
Source 1 0: Computer in 1 1: Computer in 2 2: LAN 3: USB Type A 4: USB Type B 5: HDMI 6: Component 7: S-Video 8: Video	SR1	RW	0	8	0	
Source 2 0: Computer in 1 1: Computer in 2 2: LAN 3: USB Type A 4: USB Type B 5: HDMI 6: Component 7: S-Video 8: Video	SR2	RW	0	8	1	
Source 3 0: Computer in 1 1: Computer in 2 2: LAN 3: USB Type A 4: USB Type B 5: HDMI 6: Component 7: S-Video 8: Video	SR3	RW	0	8	5	

Function	Command	RW	Min	Max	Default	Step
Source 4 0: Computer in 1 1: Computer in 2 2: LAN 3: USB Type A 4: USB Type B 5: HDMI 6: Component 7: S-Video 8: Video	SR4	RW	0	8	8	
Power-up Source 0: Computer in 1 1: Computer in 2 2: LAN 3: USB Type A 4: USB Type B 5: HDMI 6: Component 7: S-Video 8: Video	DSC	RW	0	8	0	
ADVANCED MENU: OPTION (SERVICE)						
Auto Image Mode 0: Disable 1: Fast 2: Fine	SAI	RW	0	2	1	
Ghost Red	GSR	RW	118	138	128	1
Ghost Green	GSG	RW	118	138	128	1
Ghost Blue	GSB	RW	118	138	128	1
Reset Lamp Hours 1: reset	LRT	W	0	1	n/a	
Reset Filter Hours 1: reset	FRT	W	0	1	n/a	
Key Lock - Control Panel 0: Disable 1: Enable	KPE	RW	0	1	0	
Serial Port Echo 0: Disable 1: Enable	EC1	R	0	1	0	
Factory Reset 0: not reset 1: reset	RST	W	0	1	n/a	
ADVANCED MENU: NETWORK						
IP Address (1st octet)	IP1	R	0	255	192	
IP Address (2nd octet)	IP2	R	0	255	168	
IP Address (3rd octet)	IP3	R	0	255	1	
IP Address (4th octet)	IP4	R	0	255	254	

Function	Command	RW	Min	Max	Default	Step
My Image Display 0: Off 1: Image-1 2: Image-2 3: Image-3 4: Image-4	MIF	RW	0	4	0	
My Image Delete Image-1 1: delete	MD1	W	0	1	n/a	
My Image Delete Image-2 1: delete	MD2	W	0	1	n/a	
My Image Delete Image-3 1: delete	MD3	W	0	1	n/a	
My Image Delete Image-4 1: delete	MD4	W	0	1	n/a	
AMX Device Discovery Enable 0: Disable 1: Enable	AMX	RW	0	1	0	
Network Restart 1: restart	NTR	W	0	1	n/a	
ADVANCED MENU: SECURITY						
ADVANCED MENU: OTHER						
Blank 0: Off 1: On	BLK	RW	0	1	0	
Magnify	MAG	RW	0	48	8	1
Magnify Enable 0: Disable 1: Enable	MGE	RW	0	1	0	
Magnify Position Horizontal	MPH	RW	0	6	0	1
Magnify Position Vertical	MPV	RW	0	6	0	1
Mute 0: Disable 1: Enable	MTE	RW	0	1	0	
Power 0: Disable 1: Enable	PWR	RW	0	1	0	
Source 0: Computer in 1 1: Computer in 2 2: LAN 3: USB Type A 4: USB Type B 5: HDMI 6: Component 7: S-Video 8: Video	SRC	RW	0	8	0	
Ruled Lines Enable 0: Off 1: On	RLE	RW	0	1	0	

Function	Command	RW	Min	Max	Default	Step
Freeze 0: Off 1: On	FRZ	RW	0	1	0	
INFOCUS UNIQUE						
About (Source Info) 0: n/a 1: enable	ABT	W	0	1	n/a	
Lamp Lit 0: not lit 1: lit	LML	R	0	1	0	
Number of Lamp Resets	LMR	R	0	32766	0	
Lamp Total On Time (All Bulbs)	LMT	R	0	2147483646	0	
Time In Hours Last Bulb1 Lasted	LB1	R	0	32766	0	
Time In Hours Last Bulb2 Lasted	LB2	R	0	32766	0	
Time In Hours Last Bulb3 Lasted	LB3	R	0	32766	0	
Lamp Hours	LMP	R	0	32766	0	
Filter Hours	FLT	R	0	32766	0	
Unit Total Time On	ONL	R	0	2147483646	0	
Error Status 0: No Error 1: Lamp won't strike 2: reserved 3: Lamp unexpectedly goes out 4: Fan failure 5: Over Temp Condition 6: reserved 7: Lamp Cover Error 8: Overheating alarm 9: Lamp Time Over 10: Temp Sensor out 11: Filter Time Over 12: Unidentifiable Error (system failure)	ERR	R	0	12	0	

PJLink command

Commands	Control Description	Parameter or Response
POWR	Power Control	0 = Standby
		1 = Power On
POWR ?	Power Status inquiry	0 = Standby
		1 = Power On
		2 = Cool Down
INPT	Input Source selection	11 = COMPUTER IN 1
		12 = COMPUTER IN 2
		21 = COMPONENT
		22 = S-VIDEO
		23 = VIDEO
		31 = HDMI
		41 = USB TYPE A
		51 = LAN
		52 = USB TYPE B
INPT ?	Input Source inquiry	11 = COMPUTER IN 1
		12 = COMPUTER IN 2
		21 = COMPONENT
		22 = S-VIDEO
		23 = VIDEO
		31 = HDMI
		41 = USB TYPE A
		51 = LAN
		52 = USB TYPE B
AVMT	AV Mute	10 = BLANK off
		11 = BLANK on
		20 = Mute off
		21 = Mute on
		30 = AV Mute off
		31 = AV Mute on
AVMT ?	AV Mute inquiry	10 = BLANK off
		11 = BLANK on
		20 = Mute off
		21 = Mute on
		30 = AV Mute off
		31 = AV Mute on

Commands	Control Description	Parameter or Response
ERST ?	Error Status inquiry	1st byte: Refers to Fan error; one of 0 to 2
		2nd byte: Refers to Lamp error; one of 0 to 2
		3rd byte: Refers to Temperature error; one of 0 to 2
		4th byte: Refers to Cover error; one of 0 to 2
		5th byte: Refers to Filter error; one of 0 to 2
		6th byte: Refers to Other error; one of 0 to 2
		The mearning of 0 to 2 is as given below
		0 = Error is not detected; 1 = Warning; 2 = Error
LAMP ?	Lamp Status inquiry	1st number (digits 1 to 5): Lamp Time
		2nd number : 0 = Lamp off, 1 = Lamp on
INST ?	Input Source List inquiry	11 12 21 22 23 31 41 51 52
NAME ?	Projector Name inquiry	Responds with the name set in "PROJECTOR NAME" of "NETWORK"
INF1 ?	Manufucturer's Name inquiry	INFOCUS
INF2 ?	Model Name inquiry	Your model name, "IN5122", or "IN5124"
INFO ?	Other Information inquiry	Responds with the factory information and so on
CLSS ?	Class Information inquiry	1

NOTE • The password used in PJLink™ is the same as the password set in the Web Browser Comtrol. To use PJLink™ without authentication, do not set any password in Web Browser Control.
• For specifications of PJLink™, see the web site of the Japan Business Machine and Information System Industries Association.
  URL: http://pjlink.jbmia.or.jp/

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