# RS232 Protocol Function List

Baud Rate : 9600

Data Bits: 8

Parity: None

Stop Bits: 1

Flow Control : None

UART16550 FIFO: Disable

**Write Command**

| ~ | X | X | X | X | X | | n | CR |
|---|---|---|---|---|---|---|---|---|
| Lead Code | Projector ID | | Command | | | space | variable | carriage return |
| Prefix | 00~99<br>(00: All projectors) | | 000~999 | | | | 0~9999 | suffix |

Response Format

Pass: P  Fail: F

**Read Command**

| ~ | X | X | X | X | X | | n | CR |
|---|---|---|---|---|---|---|---|---|
| Lead Code | Projector ID | | Command ID | | | space | variable | carriage return |
| Prefix | 00~99<br>(Default: 00) | | 000~999 | | | | 0~9999 | suffix |

Response Format

| Pass: | O | K | n |
|---|---|---|---|
| | | | Variable |

Fail: F

System Automatically Send

| I | N | F | O | n |
|---|---|---|---|---|
| | | | | Variable |

Fail: F

Note : *There is a <CR> after all ASCII commands. 0D is the HEX code for <CR> in ASCII code*

Character to HEX table

| Character | HEX |
|---|---|
| ~ | 7E |
| 0 | 30 |
| 1 | 31 |
| 2 | 32 |
| 3 | 33 |
| 4 | 34 |
| 5 | 35 |
| 6 | 36 |
| 7 | 37 |
| 8 | 38 |
| 9 | 39 |
| Space | 20 |
| CR (Enter) | 0D |

e.g.

ASCII to HEX

| RS232 Command | ~ | 0 | 0 | 1 | 9 | 5 | | 1 | CR |
|---|---|---|---|---|---|---|---|---|---|
| HEX | 7E | 30 | 30 | 31 | 39 | 35 | 20 | 31 | 0D |

| Main Menu | Sub Menu | Setting | Level 4 | Write Command CMD | Write Command space | Write Command Set Para. | Response Fail | Response Pass | Read Command CMD | Read Command CMD Value | Response Fail | Response Pass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Picture | Color Mode | [None] | | ~ X X 2 0 | | | F | P | ~ X X 1 2 3 | 1 | F | O k 0 |
| | | Bright | | | | 2 | F | P | | | | O k 2 |
| | | Presentation | | | | 1 | F | P | | | | O k 1 |
| | | Movie | | | | 3 | F | P | | | | O k 3 |
| | | sRGB | | | | 4 | F | P | | | | O k 4 |
| | | Blending | | | | 19 | F | P | | | | O k 19 |
| | | DICOM SIM. | | | | 13 | F | P | | | | O k 10 |
| | | User | | | | 5 | F | P | | | | O k 5 |
| | Wall Color | White | | ~ X X 5 0 6 | | 0 | F | P | | | | |
| | | Light Yellow | | | | 7 | F | P | | | | |
| | | Light Blue | | | | 4 | F | P | | | | |
| | | Pink | | | | 5 | F | P | | | | |
| | | Dark Green | | | | 8 | F | P | | | | |
| | Brightness | - | | ~ X X 4 6 | | 1 | F | P | ~ X X 1 2 5 | 1 | F | O k nnnn |
| | | 0~100<br>0 ~ 8 (Blending) | | ~ X X 2 1 | | 0~100<br>(0~8) | F | P | | | | |
| | | + | | ~ X X 4 6 | | 2 | F | P | | | | |
| | Contrast | - | | ~ X X 4 7 | | 1 | F | P | ~ X X 1 2 6 | 1 | F | O k nnnn |
| | | 0~100 | | ~ X X 2 2 | | 0~100 | F | P | | | | |
| | | + | | ~ X X 4 7 | | 2 | F | P | | | | |
| | Sharpness | 0~10(VGA Video only) | | ~ X X 2 3 | | 0~10 | F | P | | | | |
| | Satuation | 0~100(VGA Video only) | | ~ X X 4 5 | | 0~100 | F | P | | | | |
| | Hue | 0~100(VGA Video only) | | ~ X X 4 4 | | 0~100 | F | P | | | | |
| | Gamma | Film | | ~ X X 3 5 | | 1 | F | P | | | | |
| | | Graphics | | ~ X X 3 5 | | 3 | F | P | | | | |
| | | 1.8 | | ~ X X 3 5 | | 5 | F | P | | | | |
| | | 2.0 | | ~ X X 3 5 | | 6 | F | P | | | | |
| | | 2.2 | | ~ X X 3 5 | | 4 | F | P | | | | |
| | | 2.6 | | ~ X X 3 5 | | 8 | F | P | | | | |
| | | Blackboard | | ~ X X 3 5 | | 10 | F | P | | | | |
| | | DICOM SIM. | | ~ X X 3 5 | | 11 | F | P | | | | |
| | Color Temperature | 5500K | | ~ X X 3 6 | | 4 | F | P | ~ X X 1 2 8 | 1 | F | O k 1 |
| | | 6500K | | | | 1 | F | P | | | | O k 2 |
| | | 7500K | | | | 2 | F | P | | | | O k 4 |
| | | 8500K | | | | 3 | F | P | | | | O k 5 |
| | | 9500K | | | | 6 | F | P | | | | O k 6 |
| | Color Matching | Color | W/R / G / B / C / Y / M / | | | | F | P | | | | |
| | | (W) Red | 1 ~ 199 | ~ X X 3 4 5 | | 1 ~ 199 | F | P | | | | |
| | | (W) Green | 1 ~ 199 | ~ X X 3 4 6 | | 1 ~ 199 | F | P | | | | |
| | | (W) Blue | 1 ~ 199 | ~ X X 3 4 7 | | 1 ~ 199 | F | P | | | | |
| | | (R) Saturation | 0 ~ 199 | ~ X X 3 3 3 | | 0 ~ 199 | F | P | | | | |
| | | (R) Hue | -99~99 | ~ X X 3 2 7 | | -99~99 | F | P | | | | |
| | | (R) Gain | 1 ~ 199 | ~ X X 3 3 9 | | 1 ~ 199 | F | P | | | | |
| | | (G) Saturation | 0 ~ 199 | ~ X X 3 3 4 | | 0 ~ 199 | F | P | | | | |
| | | (G) Hue | -99~99 | ~ X X 3 2 8 | | -99~99 | F | P | | | | |
| | | (G) Gain | 1 ~ 199 | ~ X X 3 4 0 | | 1 ~ 199 | F | P | | | | |
| | | (B) Saturation | 0 ~ 199 | ~ X X 3 3 5 | | 0 ~ 199 | F | P | | | | |
| | | (B) Hue | -99~99 | ~ X X 3 2 9 | | -99~99 | F | P | | | | |
| | | (B) Gain | 1 ~ 199 | ~ X X 3 4 1 | | 1 ~ 199 | F | P | | | | |

Note: Some commands are not supported, it's depends on models

| Main Menu | Sub Menu | Setting | Level 4 | Write Command CMD | Space | Set Para. | Response Fail | Response Pass | Read Command CMD | CMD Value | Response Fail | Response Pass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (C) Saturation | 0 ~ 199 | ~ X X 3 3 6 | | 0 ~ 199 | F | P | | | | |
| | | (C) Hue | -99~99 | ~ X X 3 3 0 | | -99~99 | F | P | | | | |
| | | (C) Gain | 1 ~ 199 | ~ X X 3 4 2 | | 1 ~ 199 | F | P | | | | |
| | | (Y) Saturation | 0 ~ 199 | ~ X X 3 3 7 | | 0 ~ 199 | F | P | | | | |
| | | (Y) Hue | -99~99 | ~ X X 3 3 1 | | -99~99 | F | P | | | | |
| | | (Y) Gain | 1 ~ 199 | ~ X X 3 4 3 | | 1 ~ 199 | F | P | | | | |
| | | (M) Saturation | 0 ~ 199 | ~ X X 3 3 8 | | 0 ~ 199 | F | P | | | | |
| | | (M) Hue | -99~99 | ~ X X 3 3 2 | | -99~99 | F | P | | | | |
| | | (M) Gain | 1 ~ 199 | ~ X X 3 4 4 | | 1 ~ 199 | F | P | | | | |
| | Dynamic Black | Off | | ~ X X 1 9 1 | | 0 | F | P | | | | |
| | | On | | ~ X X 1 9 1 | | 1 | F | P | | | | |
| | Color Space | Auto | | ~ X X 3 7 | | 1 | F | P | | | | |
| | | RGB | | | | 2 | F | P | | | | |
| | | YUV | | | | 3 | F | P | | | | |
| | | RGB(0~255) | | | | 2 | F | P | | | | |
| | | RGB(16~235) | | | | 4 | F | P | | | | |
| | | [None] | | | | | | | ~ X X 1 2 7 | 1 | F | O k 0 |
| Screen | Aspect Ratio | 4:3 | | ~ X X 6 0 | | 1 | F | P | | | | O k 1 |
| | | 16:9 | | | | 2 | F | P | | | | O k 2 |
| | | 16:10 | | | | 3 | F | P | | | | O k 3 |
| | | Auto | | | | 7 | F | P | | | | O k 7 |
| | Phase | 0~100 (VGA Graphic only) | | | | | F | P | | | | |
| | Clock | 0~100 (VGA Graphic only) | | | | | F | P | | | | |
| | H. Position | 0~100 (VGA Graphic only) | | | | | F | P | | | | |
| | V. Position | 0~100 (VGA Graphic only) | | | | | F | P | | | | |
| | Digtial Zoom | Zoom Plus | | ~ X X 0 5 | | 1 | F | P | | | | |
| | | 0~10 | | ~ X X 6 2 | | 0~10 | F | P | | | | |
| | | Zoom Minus | | ~ X X 0 6 | | 1 | F | P | | | | |
| | Projection | Front | | ~ X X 7 1 | | 1 | F | P | ~ X X 1 2 9 | 1 | F | O k 0 |
| | | Rear | | | | 2 | F | P | | | | O k 1 |
| | | Front Ceiling | | | | 3 | F | P | | | | O k 2 |
| | | Rear Ceiling | | | | 4 | F | P | | | | O k 3 |
| | Geometric Correction | H Keystone | -40 ~ 40 | ~ X X 6 5 | | -40 ~ 40 | F | P | ~ X X 5 4 3 | 4 | F | O k % |
| | | V Keystone | -40 ~ 40 | ~ X X 6 6 | | -40 ~ 40 | F | P | ~ X X 5 4 3 | 3 | F | O k % |
| | | 4 Corners | On | | | | F | P | | | | |
| | | | Off | | | | F | P | | | | |
| | | Grid Color | Purple/Green | | | | | | | | | |
| | | Reset | | ~ X X 5 6 1 | | 1 | F | P | | | | |
| | | Function | Off | ~ X X 3 0 2 | | 0 | F | P | | | | |
| | | | PIP | | | 1 | F | P | | | | |
| | | | PBP | | | 2 | F | P | | | | |
| | | Main Source | HDMI1 | ~ X X 1 2 | | 1 | F | P | ~ X X 1 2 1 | 1 | F | O k 7 |
| | | | HDMI2 | | | 15 | F | P | | | | O k 8 |
| | | | Dongle | | | 16 | F | P | | | | O k 9 |
| | | | VGA | | | 5 | F | P | | | | O k 2 |

Note: Some commands are not supported, it's depends on models

| Main Menu | Sub Menu | Setting | Level 4 | Write Command CMD | Write Command Space | Write Command Set Para. | Response Fail | Response Pass | Read Command CMD | Read Command CMD Value | Response Fail | Response Pass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Setting | PIP - PBP Settings | | HDBaseT | | | 21 | F | P | | | | 16 |
| | | Sub Source | HDMI1 | | | 1 | F | P | | | | 7 |
| | | | HDMI 2 | | | 15 | F | P | | | | 8 |
| | | | Dongle | ~ X X 3 0 5 | | 16 | F | P | ~ X X 1 3 1 | 1 | F | O k 9 |
| | | | VGA | | | 5 | F | P | | | | 2 |
| | | | HDBaseT | | | 21 | F | P | | | | 16 |
| | | Location | Top Left | | | 1 | F | P | | | | |
| | | | Top Right | ~ X X 3 0 3 | | 2 | F | P | | | | |
| | | | Bottom Left | | | 3 | F | P | | | | |
| | | | Bottom Right | | | 4 | F | P | | | | |
| | | Size | Large | | | 1 | F | P | | | | |
| | | | Medium | ~ X X 3 0 4 | | 2 | F | P | | | | |
| | | | Small | | | 3 | F | P | | | | |
| | | Swap | | ~ X X 3 0 6 | | 1 | F | P | | | | |
| | | Language | English | | | 1 | F | P | | | | |
| | | | Deutsch | | | 2 | F | P | | | | |
| | | | Français | | | 3 | F | P | | | | |
| | | | Italiano | | | 4 | F | P | | | | |
| | | | Español | | | 5 | F | P | | | | |
| | | | Português | | | 6 | F | P | | | | |
| | | | Polski | | | 7 | F | P | | | | |
| | | | Nederlands | | | 8 | F | P | | | | |
| | | | Svenska | | | 9 | F | P | | | | |
| | | | Norwegian | | | 10 | F | P | | | | |
| | | | Suomi | | | 11 | F | P | | | | |
| | | | ελληνικά | | | 12 | F | P | | | | |
| | | | 繁體中文 | | | 13 | F | P | | | | |
| | | | 簡体中文 | | | 14 | F | P | | | | |
| | | | 日本語 | ~ X X 7 0 | | 15 | F | P | | | | |
| | | | 한국어 | | | 16 | F | P | | | | |
| | | | Русский | | | 17 | F | P | | | | |
| | | | Magyar | | | 18 | F | P | | | | |
| | | | Čeština | | | 19 | F | P | | | | |
| | | | عربي | | | 20 | F | P | | | | |
| | | | ไทย | | | 21 | F | P | | | | |
| | | | Türkçe | | | 22 | F | P | | | | |
| | | | ىفارس | | | 23 | F | P | | | | |
| | | | Dansk | | | 24 | F | P | | | | |
| | | | Vietnamese | | | 25 | F | P | | | | |
| | | | Indonesia | | | 26 | F | P | | | | |
| | | | Romanian | | | 27 | F | P | | | | |
| | | | Slovakian | | | 28 | F | P | | | | |
| | Menu Location | | Top left | | | 1 | F | P | | | | |
| | | | Top right | | | 2 | F | P | | | | |
| | | | Center | ~ X X 7 2 | | 3 | F | P | | | | |
| | | | Bottom left | | | 4 | F | P | | | | |
| | | | Bottom right | | | 5 | F | P | | | | |
| | VGA Out(Standby) | | off | ~ X X 3 0 9 | | 0 & 2 | F | P | | | | |

Note: Some commands are not supported, it's depends on models

| Main Menu | Sub Menu | Setting | Level 4 | Write Command CMD | space | Set Para. | Response Fail | Response Pass | Read Command CMD | CMD Value | Response Fail | Response Pass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ~~VGA Out(Standby)~~ | on | | ~ X X 5 0 | | 1 | F | P | | | | |
| | LAN (Standby) | off | | ~ X X 4 5 0 | | 0 & 2 | F | P | | | | |
| | | on | | | | 1 | F | P | | | | |
| | Test Pattern | Grid | | ~ X X 1 9 5 | | 3 | F | P | | | | |
| | | White | | | | 2 | F | P | | | | |
| | | None | | | | 0 | F | P | | | | |
| | Direct Power On | Off | | ~ X X 1 0 5 | | 0 & 2 | F | P | | | | |
| | | On | | | | 1 | F | P | | | | |
| | Reset to Default | Cancel / Yes | | ~ X X 1 1 2 | | 1 | F | P | | | | |
| Volume | Speaker | Off | | ~ X X 3 1 0 | | 0 & 2 | F | P | | | | |
| | | On | | | | 1 | F | P | | | | |
| | Audio Out | Off | | ~ X X 5 1 0 | | 0 & 2 | F | P | | | | |
| | | On | | | | 1 | F | P | | | | |
| | Microphone | Off | | ~ X X 5 6 2 | | 0 & 2 | F | P | | | | |
| | | On | | | | 1 | F | P | | | | |
| | Mute | Off | | ~ X X 8 0 | | 0 & 2 | F | P | ~ X X 3 5 6 | 1 | F | O k 0 |
| | | On | | | | 1 | F | P | | | F | O k 1 |
| | Volume | 0 - 15 | | ~ X X 8 1 | | 0~15 | F | P | | | | |
| | Microphone Volume | 0 - 30 | | ~ X X 9 3 | | 0~30 | F | P | | | | |
| | EQ | 100, 300, 800, 2700, 7000Hz | | | | | | | | | | |
| Options | Logo | Default | | ~ X X 8 2 | | 1 | F | P | | | | |
| | | User | | | | 2 | F | P | | | | |
| | Logo Capture | Cancel / Yes | | ~ X X 8 3 | | 1 | F | P | | | | |
| | Auto Source | Off | | ~ X X 5 6 3 | | 0 | F | P | | | | |
| | | On | | | | 1 | F | P | | | | |
| | Input | [no signal] | | | | | | | ~ X X 1 2 1 | 1 | F | O k 0 |
| | | HDMI | | ~ X X 1 2 | | 1 | F | P | | | | O k 7 |
| | | HDMI2 | | | | 15 | F | P | | | | O k 8 |
| | | Dongle | | | | 16 | F | P | | | | O k 9 |
| | | VGA | | | | 5 | F | P | | | | O k 2 |
| | | HDBaseT | | | | 21 | F | P | | | | O k 16 |
| | Auto Power Off (min) | 0 ~ 120 (5 min increments) | | ~ X X 1 0 6 | | 0 ~ 120 | F | P | | | | |
| | Sleep Timer (min) | 0 ~ 990 (10 min increments) | | ~ X X 1 0 7 | | 000~990 | F | P | | | | |
| | SSI Settings | SSI Hours Used (Normal) | | | | | | | ~ X X 1 0 8 | 3 | F | O k nnnnnn |
| | | SSI Hours Used (Eco) | | | | | | | ~ X X 1 0 8 | 4 | F | O k nnnnnn |
| | | SSI Power Mode | Normal | ~ X X 1 1 0 | | 1 | F | P | ~ X X 1 5 0 | 15 | F | O k 1 |
| | | | Eco | | | 2 | F | P | | | | O k 0 |
| | High Altitude | Off | | ~ X X 1 0 1 | | 0 & 2 | F | P | | | | |
| | | On | | | | 1 | F | P | | | | |
| | Optional Filter Settings | Optional Filter Installed | No | ~ X X 3 2 0 | | 0 & 2 | F | P | | | | |
| | | | Yes | | | 1 | F | P | | | | |
| | | Filter Usage Hours | | | | | | | ~ X X 3 2 1 | 1 | F | O k nnnn |
| | | Filter Reminder | 0~1000 | ~ X X 3 2 2 | | 0~1000 | F | P | | | | |
| | | Cleaning Up Reminder | Yes | ~ X X 3 2 3 | | 1 | F | P | | | | |
| | | | No | ~ X X 3 2 3 | | 0&2 | F | P | | | | |
| | Security | Security | Off | ~ X X 7 8 | | 0 ~nnnnnn | F | P | | | | |
| | | | On | | | 1 ~nnnnnn | F | P | | | | |
| | | Change Password | | | | | | | | | | |
| | | IR Function | Off | ~ X X 1 1 | | 0 | F | P | | | | |

Note: Some commands are not supported, it's depends on models

| Main Menu | Sub Menu | Setting | Level 4 | Write Command CMD | Write Command Space | Write Command Set Para. | Response Fail | Response Pass | Read Command CMD | Read Command CMD Value | Response Fail | Response Pass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Remote Settings | IR Function | On | | | 1 | F | P | | | | |
| | | Remote Code | - | | | | | | | | | |
| | | | 00~99 | ~ X X 3 5 0 | | 00 ~ 99 | F | P | | | | |
| | | | + | | | | | | | | | |
| | HDBaseT Control | Auto | | | | | | | | | | |
| | | HDBaseT | | | | | | | | | | |
| | PIP-PBP Module | Version | | | | | | | | | | |
| | | HDMI EQ | 0~7 | | | | | | | | | |
| | | USB Upgrade | | | | | | | | | | |
| | Information Hide | Information Hide | Off | ~ X X 1 0 2 | | 0 & 2 | F | P | | | | |
| | | | On | | | 1 | F | P | | | | |
| | Information | [Open Info Menu] | | ~ X X 3 1 3 | | 1 | F | P | | | | |
| | | [Close Info Menu] | | | | 0 & 2 | F | P | | | | |
| | | Model Name | | | | | | | ~ X X 1 5 1 | 1 | F | O k n |
| | | SNID | | | | | | | ~ X X 3 5 3 | 1 | F | O k nnnnnnnnnnnnnnn |
| | | Source (Main / Sub) | | | | | | | ~ X X 1 2 1 | 1 | F | O k * Check "Input Source" read above |
| | | Main Source Resolution | | | | | | | ~ X X 1 5 0 | 4 | F | O k nnnnnnnnnnn |
| | | Sub Source Resolution | | | | | | | ~ X X 1 5 0 | 10 | F | O k nnnnnnnnnnn |
| | | SW Version (DDP/MCU/LAN) | | | | | | | ~ X X 1 2 2 | 1 | F | O k nnnnnnnnnnn |
| | | Aspect Ratio | | | | | | | ~ X X 1 2 7 | 1 | F | O k n |
| | | SSI Hours (Normal/Eco) | | | | | | | ~ X X 1 0 8 | 1 | F | O k nnnnnnn/nnnnnnn |
| | | IP Address | | | | | | | ~ X X 8 7 | 3 | F | O k nnn_nnn_nnn_nnn |
| | | Network Status | Disconnected | | | | | | ~ X X 8 7 | 1 | F | O k 0 |
| | | | Connected | | | | | | | | | 1 |
| | | Remote Code | 00~99 | | | | | | | | | |
| | | Remote Code(Active) | 00~99 | | | | | | | | | |
| 3D | 3D | Auto | | ~ X X 2 3 0 | | 4 | F | P | | | | |
| | | ON | | | | 5 | F | P | | | | |
| | 3D Format | Frame Packing | | ~ X X 4 0 5 | | 7 | F | P | | | | |
| | | Side-by-Side (Half) | | | | 1 | F | P | | | | |
| | | Top and Bottom | | | | 2 | F | P | | | | |
| | | Frame Sequential | | | | 3 | F | P | | | | |
| | 3D Invert | Off | | ~ X X 2 3 1 | | 0 | F | P | | | | |
| | | On | | | | 1 | F | P | | | | |
| | 1080p @ 24 | 96Hz/144Hz | | | | | | | | | | |
| Network | Status | Connected | | | | | | | ~ X X 8 7 | 1 | F | O k 1 |
| | | Disconnected | | | | | | | | | | 0 |
| | DHCP Client | Off | | | | | | | ~ X X 1 5 0 | 17 | F | O k 0 |
| | | On | | | | | | | | | F | O k 1 |
| | IP Address | | | | | | | | ~ X X 8 7 | 3 | F | O k nnn_nnn_nnn_nnn |
| | Subnet Mask | | | | | | | | | | | |
| | Gateway | | | | | | | | | | | |
| | DNS | | | | | | | | | | | |
| | Store | | | | | | | | | | | |
| | MAC Address | | | | | | | | ~ X X 5 5 5 | 1 | F | O k nn:nn:nn:nn:nn:nn |
| | Group Name | | | | | | | | | | | |
| | Projector Name | | | | | | | | | | | |

Note: Some commands are not supported, it's depends on models

| Main Menu | Sub Menu | Setting | Level 4 |
|---|---|---|---|
| | Location | | |
| | Contact | | |

## Other Items

| Main Menu | Sub Menu | Setting | Level 4 | Write Command: CMD | Write Command: Set Para. | Response: Fail | Response: Pass | Read Command: CMD | Read Command: CMD Value | Response: Fail | Response: Pass |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power Off | | | | ~XX00 | 0 & 2 | F | P | ~XX124 | 1 | F | 0 & 2 |
| Power On | | | | | 1 | F | P | | | | 1 |
| Re-Sync | | | | ~XX01 | 1 | F | P | | | | |
| AV Mute | Off | | | ~XX02 | 0 & 2 | F | P | ~XX355 | 1 | F | 0 |
| | On | | | | 1 | F | P | | 1 | F | 1 |
| Mute | Off | | | ~XX03 | 0 & 2 | F | P | ~XX356 | 1 | F | 0 |
| | On | | | | 1 | F | P | | 1 | F | 1 |
| Freeze | Unfreeze | | | ~XX04 | 0 & 2 | F | P | | | | |
| | Freeze | | | | 1 | F | P | | | | |
| System Auto Send | Standby Mode | | | | | | | | | I N F O | 0 |
| | LD Fail | | | | | | | | | | 4 |
| | Fan Lock | | | | | | | | | | 6 |
| | Over Temperature | | | | | | | | | | 7 |
| | Color Wheel Unexpected Stop | | | | | | | | | | 12 |
| | Power Good Error | | | | | | | | | | 13 |
| | LD NTC (1) Over Temperature | | | | | | | | | | 21 |
| | System Ready | | | | | | | | | | 24 |
| Model Name | Optoma SVGA | | | | | | | ~XX151 | 1 | F | 1 |
| | Optoma XGA | | | | | | | | | | 2 |
| | Optoma WXGA | | | | | | | | | | 3 |
| | Optoma 1080P | | | | | | | | | | 4 |
| | Optoma WUXGA | | | | | | | | | | 5 |
| Software Version | | | | | | | | ~XX122 | 1 | F | nnnnnn |
| Information | Info String | | | | | | | | 1 | F | abbbbbccddddee (Note*1 |
| | Main Source- Resolution | | | | | | | | 4 | F | # |
| | Sub Source Resolution | | | | | | | | 10 | F | # |
| | Light Source Mode | | | | | | | ~XX150 | 15 | F | # |
| | Standby Power Mode | | | | | | | | 16 | F | # |
| | DHCP | | | | | | | | 17 | F | # |
| | System Temperature | | | | | | | | 18 | F | # |

## Remote Control Simulation

| Main Menu | Sub Menu | Setting | Level 4 | Write Command: Set Para. | Response: Fail | Response: Pass |
|---|---|---|---|---|---|---|
| Power | | | | 1 | F | P |
| Power Off | | | | 50 | F | P |
| Up | | | | 10 | F | P |
| Left | | | | 11 | F | P |
| Enter (for projection MENU) | | | | 12 | F | P |
| Right | | | | 13 | F | P |
| Down | | | | 14 | F | P |
| V Keystone + | | | | 15 | F | P |
| V Keystone - | | | | 16 | F | P |
| Volume - | | | | 17 | F | P |
| Volume + | | | | 18 | F | P |
| Menu | | | | 20 | F | P |
| Zoom+ | | | | 32 | F | P |
| Zoom- | | | | 33 | F | P |
| VGA-1 | | | | 23 | F | P |
| AV Mute | | | | 24 | F | P |
| Freeze | | | | 30 | F | P |
| Mode | | | | 36 | F | P |

Note: Some commands are not supported, it's depends on models

| Main Menu | Sub Menu | Setting | Level 4 |
|---|---|---|---|
| Format | | | |
| info | | | |
| Re-sync | | | |
| HDMI 1 | | | |
| HDMI 2 | | | |
| Source | | | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 0 | | | |
| PIP/PBP | | | |
| Geometric Correction | | | |
| Hot Key (F1) | | | |
| Hot Key (F2) | | | |
| Hot Key (F3) | | | |
| Exit | | | |

| Write Command | | | | | | | | Response | |
|---|---|---|---|---|---|---|---|---|---|
| CMD | | | | | | space | Set Para. | Fail | Pass |
| ~ | X | X | 1 | 4 | 0 | | 37 | F | P |
| | | | | | | | 40 | F | P |
| | | | | | | | 41 | F | P |
| | | | | | | | 42 | F | P |
| | | | | | | | 43 | F | P |
| | | | | | | | 47 | F | P |
| | | | | | | | 51 | F | P |
| | | | | | | | 52 | F | P |
| | | | | | | | 53 | F | P |
| | | | | | | | 54 | F | P |
| | | | | | | | 55 | F | P |
| | | | | | | | 56 | F | P |
| | | | | | | | 57 | F | P |
| | | | | | | | 58 | F | P |
| | | | | | | | 59 | F | P |
| | | | | | | | 60 | F | P |
| | | | | | | | 63 | F | P |
| | | | | | | | 68 | F | P |
| | | | | | | | 70 | F | P |
| | | | | | | | 71 | F | P |
| | | | | | | | 72 | F | P |
| | | | | | | | 74 | F | P |

| Read Command | | | | | | | Response | |
|---|---|---|---|---|---|---|---|---|
| CMD | | | | | | CMD Value | Fail | Pass |
| | | | | | | | | |
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Note: Some commands are not supported, it’s depends on models

Note *1

| Power | Light Source Life | | | | | Input Source | | Firmware Version | | | Display Mode | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a | b | b | b | b | b | c | c | d | d | d | e | e |
| a=0 Power Off | Light Source Life = nnnn | | | | | cc=00 None | | # | # | # | ee=00 None | |
| a=1 Power On | Calucalte by each mode formula | | | | | cc=01 DVI | | | | | ee=01 Presentation | |
| | | | | | | cc=02 VGA1 | | | | | ee=02 Bright | |
| | | | | | | cc=03 VGA2 | | | | | ee=03 Movie | |
| | | | | | | cc=04 S-Video | | | | | ee=04 sRGB | |
| | | | | | | cc=05 Video | | | | | ee=05 User | |
| | | | | | | cc=06 BNC | | | | | ee=06 User2 | |
| | | | | | | cc=07 HDMI1 | | | | | ee=07 Blackboard | |
| | | | | | | cc=08 HDMI2 | | | | | ee=08 Classroom | |
| | | | | | | cc=09 Wireless | | | | | ee=09 3D | |
| | | | | | | cc=10 Compnent | | | | | ee=10 DICOM SIM. | |
| | | | | | | cc=11 Flash drive | | | | | ee=11 Film | |
| | | | | | | cc=12 Network Display(Presenter) | | | | | ee=12 Game | |
| | | | | | | cc=13 USB Display | | | | | ee=13 Cinema | |
| | | | | | | cc=14 HDMI3/Dongle | | | | | ee=14 Vivid | |
| | | | | | | cc=15 DisplayPort | | | | | ee=15 ISF Day | |
| | | | | | | cc=16 HDBaseT | | | | | ee=16 ISF Night | |
| | | | | | | | | | | | ee=18 Blending | |

Remark: 1. When HDBaseT control is ON, 12v trigger output signal will always be ON, even when the projector is on Standby mode.
2. When using RS232 or LAN control commands to power on the projector, there will be a feedback delay of 6 to 10 seconds.

Note: Some commands are not supported, it’s depends on models