

EK-351WST, EK-352UST, ES-LED45WST, ES-LED46UST RS232 Command List

| 1. Connection | |
|---|----------------------------------|
| 1.1 Port Setting | |
| Method | Asynchronous communication |
| Bits per seconds | 19200 |
| Data bits | 8 |
| Parity | none |
| Stop bits | 1 |
| Flow control | none |
| 1.2 Wiring | |
| Connect the computer and projector with RS232 cross cable | |
| 2. Communication | |
| 2.1 The Projector command is defined one command/one line that starts "C" and ends carriage return CR . | |
| 2.2 There are two types of command, functional execution commands and status read commands | |
| 2.3 Response for status read command after accepting has different characters. | |
| Example: | |
| A. Functional execution command: | |
| Power ON command is sent to the projector with "C00" CR, the projector returns a *ACK CR or NAK CR code | |
| <p>PC --> Projector "C" "0" "0" CR</p> <pre> sequenceDiagram participant PC participant Projector Note over PC: PC --> Projector "C" "0" "0" CR Note over Projector: processing command Projector --> PC: ACK (or NAK) CR </pre> | |
| B. Status read command: | |
| Power Status command is sent to the projector with "CR0" CR, the projector returns a power status plus CR or NAK CR code | |
| <p>PC --> Projector "C" "R" "0" CR</p> <pre> sequenceDiagram participant PC participant Projector Note over PC: PC --> Projector "C" "R" "0" CR Note over Projector: processing command Projector --> PC: "0" "0" "0" (or NAK) CR </pre> | |
| 3. Command List | |
| Command (HEX+CR) | Function |
| C00(43 30 30 0D) | POWER ON |
| C01(43 30 31 0D) | POWER OFF(Power OFF immediately) |
| C02(43 30 32 0D) | POWER OFF |
| C05(43 30 35 0D) | VGA IN 1 |
| C07(43 30 37 0D) | Video |
| C34(43 33 34 0D) | S-Video |
| C51(43 35 31 0D) | HDBaseT |
| C33(43 33 33 0D) | Component |
| C36(43 33 36 0D) | HDMI 1 |
| C38(43 33 38 1D) | HDMI 2(MHL) |
| C15(43 31 35 0D) | NETWORK |
| C16(43 31 36 0D) | MEMORY VIEWER |
| C17(43 31 37 0D) | USB DISPLAY |
| C8E(43 38 45 0D) | Keystone ↑ |
| C8F(43 38 46 0D) | Keystone ↓ |

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| C90(43 39 30 0D) | Keystone → |
| C91(43 39 31 0D) | Keystone ← |
| C98(43 39 38 0D) | Keystone Corner |
| C99(43 39 39 0D) | Keystone Barrel / Pin *not available for EK-350U |
| C1C(43 31 43 0D) | Menu on |
| C1D(43 31 44 0D) | Menu off |
| C43(43 34 33 0D) | Still on |
| C44(43 34 34 00) | Still off |
| C0D(43 30 44 00) | Blank on |
| C0E(43 30 45 0D) | Blank off |
| C8A(43 38 41 0D) | Timer |
| C8B(43 38 42 0D) | Timer (Exit) |
| C0B(43 30 42 0D) | Mute on |
| C0C(43 30 43 0D) | Mute off |
| C30(43 33 30 0D) | Digital zoom + |
| C31(43 33 31 0D) | Digital zoom - |
| C09(43 30 39 0D) | Volume + |
| C0A(43 30 41 0D) | Volume - |
| C19(43 31 39 0D) | Dynamic |
| C11(43 31 31 0D) | Normal(Image select) |
| C39(43 33 39 0D) | Colorboard |
| C0F(43 30 46 0D) | Screen Normal size |
| C10(43 31 30 0D) | Screen Wide size |
| C13(43 31 33 0D) | Image Cinema |
| C14(43 31 34 0D) | User Image |
| C18(43 31 38 00) | Blackboard |
| C1E(43 31 45 0D) | DISPLAY CLEAR |
| C20(43 32 30 0D) | BRIGHTNESS + |
| C21(43 32 31 0D) | BRIGHTNESS - |
| C27(43 32 37 0D) | IMAGE (Toggle) |
| C28(43 32 38 0D) | Direct on Enable |
| C29(43 32 39 0D) | Direct on Disable |
| C2A(43 32 41 0D) | Power Management Ready |
| C2B(43 32 42 0D) | Power Management OFF |
| C2E(43 32 45 0D) | Power Management Shut down |
| C3A(43 33 41 0D) | POINTER RIGHT |
| C3B(43 33 42 0D) | POINTER LEFT |
| C3C(43 33 43 0D) | POINTER UP |
| C3D(43 33 44 0D) | POINTER DOWN |
| C3F(43 33 46 0D) | ENTER |
| C89(43 38 39 0D) | Auto PC ADJ. |
| CR3(43 52 33 0D) | Light source Timer Read |

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| CR0(43 52 30 0D) | Get the projector's operation status: |
| | "00":Power on |
| | "80":standby |
| | "40":Countdown in process |
| | "20":Cooling Down in process |
| | "10":Power Failure |
| | "28-0":Sensor 1 cooling down in process due to Temperature Anomaly "28-1":Sensor 2 cooling down in process due to Temperature Anomaly "28-2":Driver Green 1 cooling down in process due to Temperature Anomaly "28-3":Driver Green 2 cooling down in process due to Temperature Anomaly "28-4":Driver Blue cooling down in process due to Temperature Anomaly |
| | "88-0":Sensor 1 coming back after Temperature Anomaly "88-1":Sensor 2 coming back after Temperature Anomaly "88-2":Driver Green 1 coming back after Temperature Anomaly "88-3":Driver Green 2 coming back after Temperature Anomaly "88-4":Driver Blue coming back after Temperature Anomaly |
| | "24":Power Management cooling |
| | "04":suspend status (Power management Ready) |
| | "21":Cooling Down in process after lamp off |
| | "81":Standby after Cooling Down process due to lamp off |
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| | CR1(43 52 31 0D) |
| VGA 1 | |
| VGA 2 | |
| HDMI 1 | |
| HDMI 2(MHL) | |
| HDBaseT | |
| Component | |
| Video | |
| S-Video | |
| Memory Viewer | |
| Network | |
| USB display | |
| | |
| CR4(43 52 34 00) | Get screen setting status: |
| | "11":Normal screen setting |
| | "10":Rear & Ceiling ON |
| | "01": Rear ON |
| | "00":Ceiling ON |
| | "20": Auto Ceiling and Rear OFF |
| | "21": Auto Ceiling and Rear ON |
| | |
| CR6(43 52 36 0D) | Get the temperature data inside the projector: |
| | "%1_%2_%3_%4_%5": |
| | %1=Temperature of Sensor 1 |
| | %2=Temperature of Sensor 2 |
| | %3=Temperature of Driver Green 1 |
| | %4=Temperature of Driver Green 2 |
| | %5=Temperature of Driver Blue |
| | Temperature data is shown as "00.0" |
| CR7(43 52 37 0D) | Get the lamp mode status: |
| | "00" Light is out |
| | "01" Light is on |

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| CR ALLPFAIL | Detect detail of the power failure |
| | 000 MAIN, ALL OK |
| | 000 FAN1-5, ALL OK |
| | 000 HDMI, 3.3V OK |
| | 000 PANEL, 3.3V OK |
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