

0. Setup

| | | |
|-------------|----------------------|----------------------|
| Cable | USER SUPPLIED | DB9f~DB9f |
| Serial Port | Computer : Projector | Serial Port |
| Pin 3 DB9 | Computer : Projector | Pin 3 DB9 |
| Pin 2 DB9 | Computer : Projector | Pin 2 DB9 |
| Pin 5 DB9 | Computer : Projector | Pin 5 DB9 |
| Settings | (Computer) | 19,200 baud, 8N1 |
| Delimiter | (after command) | CR (0Dh) (NO LF) |
| Interval | Command: 100+ ms | Status Read: 200+ ms |

1. Control Command

| Command | | Function |
|---------|-------------|---------------------------|
| ASCII | HEX | |
| C00 | 43h 30h 30h | Power ON |
| C01 | 43h 30h 32h | Power OFF |
| C05 | 43h 30h 35h | Input mode 1 |
| C06 | 43h 30h 36h | Input mode 2 |
| C07 | 43h 30h 37h | Input mode 3 |
| C08 | 43h 30h 38h | Input mode 4 |
| C09 | 43h 30h 39h | Volume+ |
| C0A | 43h 30h 41h | Volume- |
| C0B | 43h 30h 42h | Audio mute ON |
| C0C | 43h 30h 43h | Audio mute OFF |
| C0D | 43h 30h 44h | Video mute ON |
| C0E | 43h 30h 45h | Video mute OFF |
| C0F | 43h 30h 46h | Regular video image (4:3) |
| C10 | 43h 31h 30h | Wide video image (16:9) |
| C1C | 43h 31h 43h | Menu ON |
| C1D | 43h 31h 44h | Menu OFF |
| C1E | 43h 31h 45h | Display clear |
| C27 | 43h 32h 37h | Image |
| C30 | 43h 33h 30h | D.Zoom+ |
| C31 | 43h 33h 31h | D.Zoom- |
| C3A | 43h 33h 41h | Pointer right |
| C3B | 43h 33h 42h | Pointer left |
| C3C | 43h 33h 43h | Pointer up |
| C3D | 43h 33h 44h | Pointer down |
| C3F | 43h 33h 46h | Select |
| C43 | 43h 34h 33h | Freeze ON |
| C44 | 43h 34h 34h | Freeze OFF |
| C46 | 43h 34h 36h | Zoom - |
| C47 | 43h 34h 37h | Zoom + |
| C4A | 43h 34h 41h | Focus - |
| C4B | 43h 34h 42h | Focus + |
| C4F | 43h 34h 46h | Cursol |
| C5D | 43h 35h 44h | Lens shift + |
| C5E | 43h 35h 45h | Lens shift - |
| C5F | 43h 35h 46h | Lens shift left |
| C60 | 43h 36h 30h | Lens shift right |

1. RS-232C COMMAND LIST

| CODE | LC-XT1 | LC-UXT1 / UXT3 LC-XT2 / XT3 | LC-X4 / X5 LC-SX4 |
|------|----------------------|--------------------------------|----------------------|
| C00 | POWER ON | POWER ON | POWER ON |
| C01 | compulsory POWER OFF | compulsory POWER OFF | compulsory POWER OFF |
| C02 | POWER OFF | | |
| C05 | INPUT1 MODE SET | INPUT1 MODE SET | INPUT1 MODE SET |
| C06 | INPUT2 MODE SET | INPUT2 MODE SET | INPUT2 MODE SET |
| C07 | INPUT3 MODE SET | INPUT3 MODE SET | INPUT3 MODE SET |
| C08 | INPUT4 MODE SET | INPUT4 MODE SET | |
| C09 | VOLUME + | VOLUME + | VOLUME + |
| C0A | VOLUME - | VOLUME - | VOLUME - |
| C0B | SOUND MUTE ON | SOUND MUTE ON | SOUND MUTE ON |
| C0C | SOUND MUTE OFF | SOUND MUTE OFF | SOUND MUTE OFF |
| C0D | VIDEO MUTE ON | NO SHOW ON | NO SHOW ON |
| C0E | VIDEO MUTE OFF | NO SHOW OFF | NO SHOW OFF |
| C0F | AV REGULAR SIZE | AV REGULAR SIZE | AV REGULAR SIZE |
| C10 | AV WIDE SIZE | AV WIDE SIZE | AV WIDE SIZE |
| C1C | MENU ON | MENU ON | MENU ON |
| C1D | MENU OFF | MENU OFF | MENU OFF |
| C1E | DISPLAY CLEAR | DISPLAY CLEAR | DISPLAY CLEAR |
| C1F | NORMAL | | |
| C20 | | | |
| C21 | | | |
| C22 | | | |
| C23 | | | |
| C24 | | | |
| C25 | | | |
| C26 | | | |
| C27 | | IMAGE | IMAGE |
| C28 | | | |
| C29 | | | |
| C2A | | | |
| C2B | | | |
| C2C | | | |
| C2D | | | |
| C2E | | | |
| C2F | | | |
| C30 | D.Zoom+ | D.Zoom+ | D.Zoom+ |
| C31 | D.Zoom- | D.Zoom- | D.Zoom- |
| C3A | POINTER RIGHT | POINTER RIGHT | POINTER RIGHT |
| C3B | POINTER LEFT | POINTER LEFT | POINTER LEFT |
| C3C | POINTIER UP | POINTIER UP | POINTIER UP |
| C3D | POINTIER DOWN | POINTIER DOWN | POINTIER DOWN |
| C3E | MUPO REAR SW | | |
| C3F | ENTER | SELECT | SELECT |
| C42 | | | |
| C43 | FREEZE ON | FREEZE ON | FREEZE ON |
| C44 | FREEZE OFF | FREEZE OFF | FREEZE OFF |
| C46 | ZOOM DOWN | ZOOM DOWN | ZOOM DOWN |
| C47 | ZOOM UP | ZOOM UP | ZOOM UP |
| C49 | | | |
| C4A | FOCUS DOWN | FOCUS DOWN | FOCUS DOWN |
| C4B | FOCUS UP | FOCUS UP | FOCUS UP |
| C4D | | | |
| C4F | CURSOR | | |
| C59 | | | |
| C5A | | | |
| C5D | LENS SHIFT UP | LENS SHIFT UP | LENS SHIFT UP |

| CODE | LC-XT1 | LC-UXT1 / UXT3 LC-XT2 / XT3 | LC-X4 / X5 LC-SX4 |
|------|---------------------------|--------------------------------|-------------------------|
| C5E | LENS SHIFT DOWN | LENS SHIFT DOWN | LENS SHIFT DOWN |
| C5F | LENS SHIFT LEFT | LENS SHIFT LEFT | |
| C60 | LENS SHIFT RIGHT | LENS SHIFT RIGHT | |
| C70 | FULL LAMP(4LAMP) MODE | FULL LAMP(4LAMP) MODE | FULL LAMP(2LAMP) MODE |
| C71 | HALF LAMP(2LAMP) 1-4 MODE | HALF LAMP(2LAMP) 1-4 MODE | HALF LAMP(1LAMP) MODE-1 |
| C72 | HALF LAMP(1LAMP) 2-3 MODE | HALF LAMP(1LAMP) 2-3 MODE | HALF LAMP(1LAMP) MODE-2 |
| C80 | | | |
| C87 | | | |
| C88 | | | |
| C89 | Auto Image | Auto PC ADJ. | Auto PC ADJ. |
| C8A | | Presentation timer | Presentation timer |
| C8B | | | |
| C8C | | | |
| C8D | | | |
| C8E | Keystone + | Keystone + | Keystone + |
| C8F | Keystone - | Keystone - | Keystone - |
| | | | |
| CD0 | | | |
| CD1 | | | |
| CD2 | | | |
| CD3 | | | |
| CD4 | | | |
| CD5 | | | |
| CD6 | | | |
| CD7 | | | |
| CD8 | | | |
| CD9 | | | |
| CDA | | | |
| CDB | | | |

2. RS-232C STATUS LIST

| CODE | LC-XT1 | LC-UXT1 / UXT3 LC-XT2 / XT3 | LC-X4 / X5 LC-SX4 |
|------|-----------------|--------------------------------|----------------------|
| CR0 | Status Read | Status Read | Status Read |
| CR1 | Input Mode Read | Input Mode Read | Input Mode Read |
| CR3 | Lamp Time Read | Lamp Time Read | Lamp Time Read |
| CR4 | Setting Read | Setting Read | Setting Read |
| CR6 | TEMP Read | TEMP Read | TEMP Read |
| CR7 | LAMP MODE Read | LAMP MODE Read | LAMP MODE Read |
| CR9 | | PC Type Read | PC Type Read |
| CRA | | Status 2 Read | Status 2 Read |

3. STATUS READ

| | |
|------|---|
| 00 | POWER ON |
| 80 | STANDBY |
| 40 | COUNT DOWN |
| 20 | COOLING DOWN |
| 10 | POWER FAIL |
| 28 | TEMPERATURE WARNING & COOLING DOWN |
| 08 | TEMPERATURE WARNING (POWER ON) |
| 88 | TEMPERATURE WARNING and RECOVERED |
| 02 | NO KEY INPUT |
| 24 | LAMP OFF & TEMPERATURE WARNING by PWR MANAGEMENT |
| 04 | LAMP OFF by PWR MANAGEMENT |
| ★ 21 | During cooling down after all lamps distinguished |
| ★ 81 | Standby after the above |

★LC-UXT3/X5/XT3 only

4. INPUT MODE READ

★LC-XT1 / XT2 / XT3 / UXT1 / UXT3

| | |
|---|--------|
| 1 | INPUT1 |
| 2 | INPUT2 |
| 3 | INPUT3 |
| 4 | INPUT4 |

★LC-X4 / X5 / SX4

| | |
|---|--------|
| 1 | INPUT1 |
| 2 | INPUT2 |
| 3 | INPUT3 |

5. LAMP TIME READ

| | |
|------|-----------------------|
| **** | 4-digit number (Hour) |
|------|-----------------------|

6. SETTING READ

| | |
|----|--------------------|
| 11 | NORMAL |
| 10 | TOP/BOTTOM REVERSE |
| 01 | LEFT/RIGHT REVERSE |
| 00 | T/B & L/R REVERSE |

7. TEMP READ

| | |
|--------------|-----------------------------|
| _.**.*_**.*_ | _ : space, *:a digit number |
|--------------|-----------------------------|

ex. _31.5_35.2_ : a temperature of 31.5° & 35.2°
 -05.5_-01.2_ : a temperature of -5.5° & -1.2°
 E00.0_35.2_ : ERROR and a temperature of 35.2°

8. LAMP MODE READ

★LC-XT1 / XT2 / XT3 / UXT1 / UXT3 only

| | |
|----|----------------|
| ** | 2-digit number |
|----|----------------|

4LAMP MODE

| | |
|----|-----------------------|
| 00 | ALL OFF |
| 01 | No.1:ON, No.2,3,4:OFF |
| 02 | No.2:ON, No.1,3,4:OFF |
| 04 | No.3:ON, No.1,2,4:OFF |
| 08 | No.4:ON, No.1,2,3:OFF |
| 03 | No.1,2:ON, No.3,4:OFF |
| 05 | No.1,3:ON, No.2,4:OFF |
| 09 | No.1,4:ON, No.2,3:OFF |
| 06 | No.2,3:ON, No.1,4:OFF |
| 0A | No.2,4:ON, No.1,3:OFF |
| 0C | No.3,4:ON, No.1,2:OFF |
| 07 | No.1,2,3:ON, No.4:OFF |
| 0B | No.1,2,4:ON, No.3:OFF |
| 0D | No.1,3,4:ON, No.2:OFF |
| 0E | No.2,3,4:ON, No.1:OFF |
| 0F | ALL ON |

2LAMP MODE (No.1 & No.4 use)

| | |
|----|-----------------------|
| 10 | ALL OFF |
| 11 | No.1:ON, No.2,3,4:OFF |
| 18 | No.4:ON, No.1,2,3:OFF |
| 19 | No.1,4:ON, No.2,3:OFF |

2LAMP MODE (No.2 & No.3 use)

| | |
|----|-----------------------|
| 20 | ALL OFF |
| 22 | No.2:ON, No.1,3,4:OFF |
| 24 | No.3:ON, No.1,2,4:OFF |
| 26 | No.2,3:ON, No.1,4:OFF |

★LC-X4 / X5 / SX4 only

| | |
|-----|--------------------|
| * * | a two-digit number |
|-----|--------------------|

2LAMP MODE

| | |
|----|-------------------|
| 00 | ALL OFF |
| 01 | No.1:ON, No.2:OFF |
| 02 | No.2:ON, No.1:OFF |
| 0F | ALL ON |

1LAMP MODE (No.1 use)

| | |
|----|-------------------|
| 10 | ALL OFF |
| 11 | No.1:ON, No.2:OFF |

1LAMP MODE (No.2 use)

| | |
|----|-------------------|
| 20 | ALL OFF |
| 22 | No.2:ON, No.1:OFF |

9. PC TYPE READ

| | |
|------------|------------------------|
| Stand by | Stand by |
| AV Mode | Video mode |
| ***** | PC SYSTEM (ex. "XGA1") |
| Go PC adj. | Auto |
| No signal | No Signal |

10. STATUS 2 READ

| | |
|----|------------------------|
| 00 | Video & Audio MUTE OFF |
| 01 | Video MUTE ON |
| 02 | Audio MUTE ON |
| 03 | Video & Audio MUTE ON |

1. Control Command, continued

| | | |
|-----|-------------|----------------------|
| C70 | 43h 37h 30h | Full Lamp mode |
| C71 | 43h 37h 31h | Half Lamp mode (1&4) |
| C72 | 43h 37h 32h | Half Lamp mode (2&3) |
| C89 | 43h 38h 39h | Auto PC Adj. |
| C8A | 43h 38h 41h | Presentation timer |
| C8E | 43h 38h 45h | Keystone+ |
| C8F | 43h 38h 46h | Keystone- |

2. Status Read Command

| Command | | Function |
|---------|-------------|-------------|
| ASCII | HEX | |
| CR0 | 43h 52h 30h | Status Read |
| CR1 | 43h 52h 31h | Input mode |
| CR3 | 43h 52h 33h | Lamp time |
| CR4 | 43h 52h 34h | Setting |
| CR6 | 43h 52h 36h | Temp |
| CR7 | 43h 52h 37h | Lamp mode |
| CR9 | 43h 52h 39h | PC type |
| CRA | 43h 52h 41h | Status-2 |

2.1 Status Read (CR0)

| Command | | Status |
|---------|---------|-----------------------------|
| ASCII | HEX | |
| 00 | 30h 30h | Power ON |
| 80 | 38h 30h | Stand by |
| 40 | 34h 30h | Count down |
| 20 | 32h 30h | Cooling down |
| 10 | 31h 30h | Power abnormality |
| 28 | 32h 38h | Temperature abnormality |
| 08 | 30h 38h | Temperature abnormality |
| 88 | 38h 38h | Temperature abnormality |
| 02 | 30h 32h | |
| 24 | 32h 34h | Cooling down for power save |
| 04 | 30h 34h | Power save |

2.2 Input Mode Read (CR1)

| Command | | Status |
|---------|-----|--------------|
| ASCII | HEX | |
| 1 | 31h | Inout mode 1 |
| 2 | 32h | Input mode 2 |
| 3 | 33h | Input mode 3 |
| 4 | 34h | Input mode 4 |

2.3 Lamp Time Read (CR3)

| Command | Status |
|-------------------------------|---------|
| **** **** **** **** | 4 digit |
| ?) 4 ? ? ? ? ? ? ? ? ? ? ? ? | |

2.4 Setting Read (CR4)

| Command | | Status |
|---------|---------|-------------------------|
| ASCII | HEX | |
| 11 | 31h 31h | Normally |
| 10 | 31h 30h | Top/Bottom reversal |
| 01 | 30h 31h | Left/Right reversal |
| 00 | 30h 30h | Top/Bottom & Left/Right |

2.5 Temperature Read (CR6)

| Command | Status |
|---|-------------------|
| **_*_**_* | Temperature value |
| _? = ? ? ? ? ? **.*=? ? ? (? : ? ? ? ? 1 ? ? : ? ? ? ? 2 | |
| ? | |

2.6 Lamp Mode Read (CR7)

| Command | Status |
|---|-------------------|
| 0* | 4 Lamp mode |
| 1* | 2 Lamp mode (1&4) |
| 2* | 2 Lamp mode (2&3) |
| *? ? ? ? ? ? ? ? ? ? / ? ? ? ? ? ? ? ? ? ? 0~ 9? A~ F ? ? ? | |
| 0= ? ? ? ? ? ? 1= No.1? ? ? ? ? ? 2= No.2? ? ? ? ? ? 4= No.3? ? ? ? ? ? | |
| 8= No.4? ? ? ? ? ? 3= No.1&2? ? ? ? ? ? 5= No.1&3? ? ? ? ? ? 9= No.1&4? ? ? ? ? ? | |
| 6= No.2&3? ? ? ? ? ? A= No.2&4? ? ? ? ? ? C= No.3&4? ? ? ? ? ? 7= No.1&2&3? ? ? ? ? ? | |
| B= No.1&2&4? ? ? ? ? ? D= No.1&3&4? ? ? ? ? ? E= No.2&3&4? ? ? ? ? ? F= ? ? ? ? ? ? | |

2.7 PC Type Read (CR9)

| Command | Status |
|------------|----------------|
| Stand by | Stand by |
| AV Mode | AV mode |
| ***** | PC preset mode |
| Go PC adj. | Auto |
| No signal | No signal |
| | Error |

2.8 Status 2 Read (CRA)

| Command | Status |
|---------|------------------------|
| 00 | Video & Audio mute OFF |
| 01 | Video mute ON |
| 02 | Audio mute ON |
| 03 | Video & Audio mute ON |