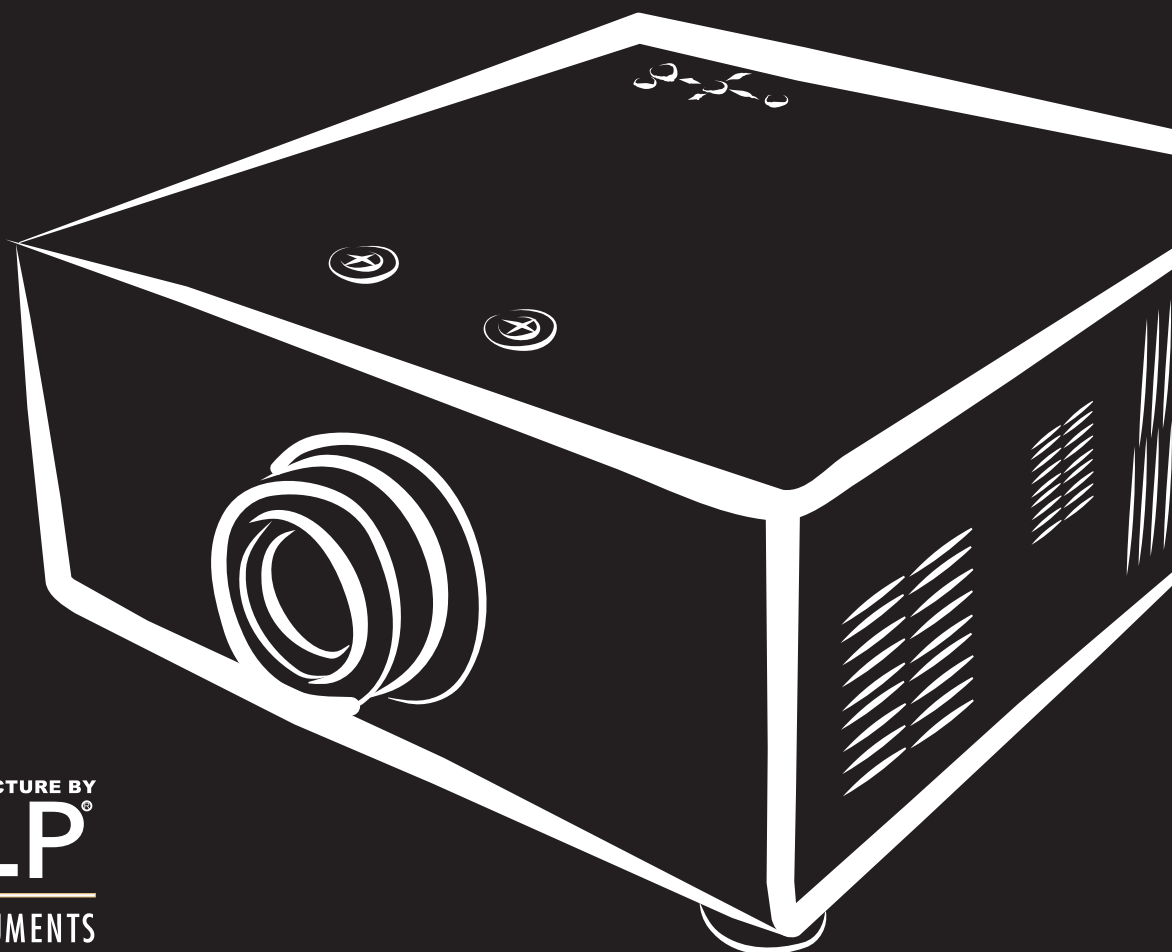


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User Manual

用戶手冊

D8300 Series



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TEXAS INSTRUMENTS

串行通信

若要将本机与控制系统或运行终端仿真软件的 PC 对接，步骤如下：

1. 请将机器与控制系统或 PC 连接。
2. 使用终端仿真程序之类在 PC 上启动终端对话。
3. 配置 RS-232 控制器或 PC 串口：38400bps，无奇偶校验，8 个数据位，一个停止位，无流控制。键入 **ky** 或 **op**，后跟下面页数表中列出的某种命令，然后按 **<Enter>**，例如，要将宽高比更改为 Letterbox，键入 **op aspect=1<Enter>**。

本机的串行命令必须采用底下的形式：

1. 命令须为 ASCII 的格式。
2. 空格和制表符可用于提高可读性，但是投影机忽略这些字符。
3. 所有命令必须以回车结束 (ASCII hex 0D) 已通知投影机现在可以读取并执行命令。
4. 命令不分大小写。

本机支持两类命令，键命令和操作命令，键命令模拟按下遥控器键，操作命令则是告诉投影机要执行的确实操作。

所有命令都以 2 字母开头：

ky 表示键命令
op 表示操作命令

键命令

键命令的语法比较简单：**ky <keyname> [CR]**

键命令的范例如下：














| | |
|------------------------|----------------|
| ky bright [CR] | 调整画面亮度 |
| ky menu [CR] | 调出或取消菜单显示 |
| ky asp.4.3 [CR] | 应用画面为 4:3 的宽高比 |

投影机对键命令的响应是不管大小写，投影机一律以全大写来响应。例如：




| | |
|----|-----------------------|
| 输入 | ky bright [CR] |
| 响应 | KY BRIGHT [CR] |

键命令 -> 串行命令件名称和红外线代码

Remote& RS-232 Control code:

| No. | Code | RS232 Keyname | Remote Button | Description |
|----------|------|---------------|---|----------------------------------|
| 2.5.6.1 | 0x01 | pow.on |  | Turn power on. |
| 2.5.6.2 | 0x02 | src.sw | (none) | reserved |
| 2.5.6.3 | 0x09 | pow.off |  | Turn power off. |
| 2.5.6.4 | 0x15 | menu |  | Bring up or cancel menu display. |
| 2.5.6.5 | 0x17 | enter |  | Keypad enter. |
| 2.5.6.6 | 0x18 | cur.down |  | Keypad down arrow. |
| 2.5.6.7 | 0x1A | cur.up |  | Keypad up arrow. |
| 2.5.6.8 | 0x1D | cur.left |  | Keypad left arrow. |
| 2.5.6.9 | 0x1F | cur.righ |  | Keypad right arrow. |
| 2.5.6.10 | 0x80 | bright |  | reserved |
| 2.5.6.11 | 0x81 | contrast |  | reserved |
| 2.5.6.12 | 0x82 | sharp |  | reserved |
| 2.5.6.13 | 0x83 | nr |  | reserved |
| 2.5.6.14 | 0x84 | resync | (none) | reserved |
| 2.5.6.15 | 0x85 | gam.sw |  | reserved |
| 2.5.6.16 | 0x86 | gam.crt | (none) | reserved |
| 2.5.6.17 | 0x87 | gam.film | (none) | reserved |

| No. | Code | RS232 Keyname | Remote Button | Description |
|----------|------|---------------|---|---------------------------------------|
| 2.5.6.18 | 0x88 | gam.vid | (none) | reserved |
| 2.5.6.19 | 0x89 | gam.brig | (none) | reserved |
| 2.5.6.20 | 0x8A | gam.pc | (none) | reserved |
| 2.5.6.21 | 0x8B | src.1 |  | Switch the active source to source 1. |
| 2.5.6.22 | 0x8C | src.2 |  | Switch the active source to source 2. |
| 2.5.6.23 | 0x8D | src.3 |  | Switch the active source to source 3. |
| 2.5.6.24 | 0x8E | src.4 |  | Switch the active source to source 4. |
| 2.5.6.25 | 0x8F | src.5 |  | Switch the active source to source 5. |
| 2.5.6.26 | 0x90 | bla.tog | (none) | reserved |
| 2.5.6.27 | 0x91 | bla.on | (none) | reserved |
| 2.5.6.28 | 0x92 | bla.off | (none) | reserved |
| 2.5.6.29 | 0x93 | osc.sw |  | reserved |
| 2.5.6.30 | 0x94 | osc.zoom | (none) | reserved |
| 2.5.6.31 | 0x95 | osc.crop | (none) | reserved |
| 2.5.6.32 | 0x96 | osc.off | (none) | reserved |
| 2.5.6.33 | 0x97 | mem.sw | (none) | reserved |
| 2.5.6.34 | 0x98 | mem.1 |  | reserved |
| 2.5.6.35 | 0x99 | mem.2 |  | reserved |
| 2.5.6.36 | 0x9A | mem.3 |  | reserved |
| 2.5.6.37 | 0x9B | isf.day | (none) | reserved |
| 2.5.6.38 | 0x9C | isf.nigh | (none) | reserved |
| 2.5.6.39 | 0x9D | asp.sw |  | Switch to the next aspect ratio. |
| 2.5.6.40 | 0x9E | asp.16.9 | (none) | reserved |
| 2.5.6.41 | 0x9F | asp.4.3 | (none) | reserved |
| 2.5.6.42 | 0xA0 | asp.lett | (none) | reserved |

| No. | Code | RS232 Keyname | Remote Button | Description |
|----------|------|---------------|---|---|
| 2.5.6.43 | 0xA1 | asp.narr | (none) | reserved |
| 2.5.6.44 | 0xA3 | pip.sw |  | reserved |
| 2.5.6.45 | 0xA4 | pip.1 | (none) | reserved |
| 2.5.6.46 | 0xA5 | pip.2 | (none) | reserved |
| 2.5.6.47 | 0xA6 | pip.3 | (none) | reserved |
| 2.5.6.48 | 0xA7 | pip.4 | (none) | reserved |
| 2.5.6.49 | 0xA8 | pip.5 | (none) | reserved |
| 2.5.6.50 | 0xA9 | pip.off | (none) | reserved |
| 2.5.6.51 | 0xAA | pip.swap |  | reserved |
| 2.5.6.52 | 0xAC | pow.tog | (none) | Toggles between power on and power off. |
| 2.5.6.53 | 0xAD | lit.tog |  | reserved |
| 2.5.6.54 | 0xAE | asp.nat | (none) | reserved |

操作命令

操作命令用於更灵活及直接的控制投影机，操作命令的语法如下：

OP <operation> <command> [CR]

注意：<operation> 和 <command> 前面有空格

该命令类型可为 5 种功能之一：

| 控制操作命令 | | |
|--------|----------|------------|
| 功能 | 命令 | 对设备的操作 |
| 设置 | =<value> | 使设备采用该值。 |
| 获取 | ? | 询问当前值。 |
| 递增 | + | 对当前值加 1。 |
| 递减 | - | 对当前值减 1。 |
| 执行 | (无) | 执行复位之类的操作。 |

下面页数的表格中列出了有效的操作命令。對於除“执行”功能外的所有命令，投影机的响应为命令加上“=<value>”，其中<value>为当前值，如果没有值，则为“NA”。對於“执行”功能，响应与键命令相同，所有的响应都为全大写。

操作命令的范例如下：

输入： op bright ? [CR]

响应： OP BRIGHT = 100 [CR]

输入： op bright + [CR]

响应： OP BRIGHT = 101 [CR]

输入： op bright = 127 [CR]

响应： OP BRIGHT = 127 [CR]

输入： op bright - [CR]

响应： OP BRIGHT = 126 [CR]

输入： op resync [CR]

响应： OP RESYNC [CR]

输入： op sharp.mode = 1 [CR]

响应： OP SHARP.MODE = 1 [CR]

输入： op sharp.simple = 50 [CR]

响应： OP SHARP.SIMPLE = NA [CR]

输入： op sharp.simple ? [CR]

响应： OP SHARP.SIMPLE = NA [CR]

最後三项命令显示当控键灰显时所出现的结果，比例中，清晰度模式设置为高级 (value=1)，然後尝试调整并查询简单滑块。响应为“NA”，即不可用。

操作命令 -> 串行命令

| Operation Commands | | | |
|--------------------|-----------|--|-------|
| Operation | Command | Values | Notes |
| aspect | = ? | 0 = 16:9 1 = Letterbox 2 = 4:3 3 = 4:3 Narrow 4 = Native | CS520 |
| bright | = ? + - | 0 - 200 | CS520 |
| contrast | = ? + - | 0 - 200 | CS520 |
| sharp | = ? + - | 0 - 200 | CS520 |
| nr | = ? + - | 0 - 200 | CS520 |
| overscan | = ? | 0 = Off 1 = Crop 2 = Zoom | CS520 |
| resync | (execute) | | CS520 |
| color.space | = ? | 0 = Auto 1 = YPbPr 2 = YCbCr 3 = RGB-PC 4 = RGB-Video | CS520 |
| gamma | = ? | 0 = CRT 1 = Film 2 = Video 3 = Bright 4 = Graphics | CS520 |
| dlp.frame | = ? | 0 = Auto 2 = 48 Hz 3 = 50 Hz 4 = 60 Hz | CS520 |
| red.off | = ? + - | 0-200 | CS520 |
| green.off | = ? + - | 0-200 | CS520 |
| blue.off | = ? + - | 0-200 | CS520 |
| red.gain | = ? + - | 0-200 | CS520 |
| green.gain | = ? + - | 0-200 | CS520 |
| blue.gain | = ? + - | 0-200 | CS520 |
| vert.pos | = ? + - | 0-200 | CS520 |
| horiz.pos | = ? + - | 0-200 | CS520 |

| Operation Commands | | | |
|--------------------|-----------|---|-------|
| Operation | Command | Values | Notes |
| menu.pos | = ? | 0 = Top left 1 = Top right 2 = Bottom left 3 = Bottom right 4 = Center | CS520 |
| auto.pow.off | = ? | 0 = Off 1 = On | CS520 |
| auto.pow.on | = ? | 0 = Off 1 = On | CS520 |
| rear.proj | = ? | 0 = Off 1 = On | CS520 |
| ceil.mode | = ? | 0 = Off 1 = On | CS520 |
| model.name | ? | <string> | CS520 |
| ser.number | ? | <string> | CS520 |
| soft.version | ? | <string> | CS520 |
| act.source | ? | 0 = HDMI 1 1 = HDMI 2 2 = RGB 3 = YPrPb 1 4 = YPrPb 2 5 = S-video 6 = Video | CS520 |
| h.refresh | ? | <number> kHz | CS520 |
| v.refresh | ? | <number> Hz | CS520 |
| pixel.clock | ? | <number> MHz | CS520 |
| signal | ? | <string> | CS520 |
| lamp.hours | ? | <number> | CS520 |
| total.hours | ? | <number> | CS520 |
| Lamp.reset | (execute) | | CS520 |
| Lamp.sn | = ? | <string> | CS520 |
| Lamp.report | (execute) | <string> | CS520 |
| | | | |

| Operation Commands | | | |
|--------------------|---------|--|-------|
| Operation | Command | Values | Notes |
| pattern | = | 0 = White 1 = Black 2 = Red 3 = Green 4 = Blue 5 = Cyan 6 = Magenta 7 = Yellow 8 = ANSI Checkerboard 9 = H ramp 10 = Focus Grid 11 = Off | CS520 |
| altitude | = ? | 0 = off 1 = on | CS520 |
| v.keystone | = ? | <number> | CS520 |
| h.keystone | = ? | <number> | CS520 |