

## RS-232 Command and Configuration

Baud Rate:9600 Parity Bit:none Data Bit:8 Stop  
Bit:1

<b>Power</b>		return code (ok)
Status ?	(PWR?)	(0-1, n) n=0, 1
ON	(PWR1)	
OFF	(PWRO)	
ON & return	(PWR1!)	(0-1, 1)
OFF & return	(PWRO!)	(0-1, 0)
<b>Menu(OSD) Status</b>		return code (ok)
Status ?	(MNU?)	(0-1, n) n=0, 1
ON	(MNU1)	
OFF	(MNU0)	
ON & return	(MNU1!)	(0-1, 1)
OFF & return	(MNU0!)	(0-1, 0)
<b>Key Pad</b>		return code (ok)
Status ?	(NAV?)	(0-5, 0) n=0-5
Menu	(NAV0)	
Up	(NAV1)	
Down	(NAV2)	
Select	(NAV3)	
Left	(NAV4)	
Right	(NAV5)	
Menu & return	(NAV0!)	(0-5, 0)
Up & return	(NAV1!)	(0-5, 1)
Down & return	(NAV2!)	(0-5, 2)
Select & return	(NAV3!)	(0-5, 3)
Left & return	(NAV4!)	(0-5, 4)
Right & return	(NAV5!)	(0-5, 5)
<b>Auto Source</b>		return code (ok)
Status ?	(ASC?)	(0-1, n) n=0, 1
ON	(ASC1)	
OFF	(ASCO)	
ON & return	(ASC1!)	(0-1, 1)
OFF & return	(ASCO!)	(0-1, 0)
<b>Blank Key</b>		return code (ok)
Status ?	(BLK?)	(0-1, n) n=0, 1
ON	(BLK1)	
OFF	(BLK0)	
ON & return	(BLK1!)	(0-1, 1)
OFF & return	(BLK0!)	(0-1, 0)
<b>Blank Screen</b>		return code (ok)
Status ?	(BSS?)	(0-6, n) n=0, 3, 4, 5
Blue Screen	(BSS0)	
Black Screen	(BSS3)	
White Screen	(BSS4)	
Factory LOGO	(BSS5)	
User LOGO	(BSS6)	
Blue Screen & return	(BSS0!)	(0-6, 0)
Black Screen & return	(BSS3!)	(0-6, 3)

White Screen & return	(BSS4!)	(0-6, 4)
Factory LOGO & return	(BSS5!)	(0-6, 5)
User LOGO & return	(BSS6!)	(0-6, 6)
<b>Source</b>		<b>return code (ok)</b>
Status ?	(SRC?)	(0-22, n) n=0-22
下一個 Source	(SRC+)	
上一個 Source	(SRC-)	
Computer1	(SRC0)	
Computer2	(SRC1)	
VIDEO	(SRC11)	
S-VIDEO	(SRC12)	
HDMI1	(SRC4)	
HDMI2	(SRC5)	
LightCast	(SRC15)	
HDBase-T	(SRC17)	
下一個 Source & return	(SRC+!)	(0-22, n) n=0-22
上一個 Source & return	(SRC-!)	(0-22, n) n=0-22
Computer1 & return	(SRC0!)	(0-22, 0)
Computer2 & return	(SRC1!)	(0-22, 1)
VIDEO & return	(SRC11!)	(0-22, 11)
S-VIDEO & return	(SRC12!)	(0-22, 12)
HDMI & return	(SRC4!)	(0-22, 4)
HDMI2 & return	(SRC5!)	(0-22, 5)
LightCast	(SRC15!)	(0-22, 15)
HDBase-T	(SRC17!)	(0-22, 17)
<b>Auto Image</b>		<b>return code (ok)</b>
exec	(AIM1)	
<b>Keystone</b>		<b>return code (ok)</b>
Status ?	(DKH?)	(-40-40, nnn) n=-40 ~ 40
Keystone +	(DKH+)	
Keystone -	(DKH-)	
Set keystone	(DKHnnn) n=-40 ~ 40	
Keystone + & return	(DKH+!)	(-40-40, nnn) n=-40 ~ 40
Keystone - & return	(DKH-!)	(-40-40, nnn) n=-40 ~ 40
Set keystone & return	(DKHnnn!) n=-40 ~ 40	(-40-40, nnn) n=-40 ~ 40
<b>Aspect</b>		<b>return code (ok)</b>
Status ?	(ARZ?)	(0-6, n) n=0, 1, 2, 3, 4, 6
Auto	(ARZ0)	
Native	(ARZ1)	
4 X 3	(ARZ2)	
16 X 9	(ARZ3)	
Letterbox	(ARZ4)	
16 X 10	(ARZ6)	
Auto & return	(ARZ0!)	(0-6, 0)
Native & return	(ARZ1!)	(0-6, 1)
4 X 3 & return	(ARZ2!)	(0-6, 2)
16 X 9 & return	(ARZ3!)	(0-6, 3)
Letterbox & return	(ARZ4!)	(0-6, 4)

16 X 10 & return	(ARZ6!)	(0-6, 6)
<b>Lamp Low Power (ECO Mode)</b>		return code (ok)
Status ?	(IPM?)	(0-1, n) n=0, 1
ON	(IPM1)	
OFF	(IPMO)	
ON & return	(IPM1!)	(0-1, 1)
OFF & return	(IPMO!)	(0-1, 0)
<b>Volume</b>		return code (ok)
Status ?	(VOL?)	(0-10, nn) n=0~10
volume +	(VOL+)	
volume -	(VOL-)	
Set volume	(VOLnn) n=0 ~ 10	
volume + & return	(VOL+!)	(0-10, nn) n=0~10
volume - & return	(VOL-!)	(0-10, nn) n=0~10
Set volume & return	(VOLnn!) n=0 ~ 10	(0-10, nn) n=0~10
<b>Mute</b>		return code (ok)
Status ?	(MTE?)	(0-1, n) n=0, 1
ON	(MTE1)	
OFF	(MTE0)	
ON & return	(MTE1!)	(0-1, 1)
OFF & return	(MTE0!)	(0-1, 0)
<b>Factory Reset</b>		return code (ok)
exec	(RST1)	
<b>Firmwave Version</b>		return code (ok)
Status ?	(FVS?)	(nnnn) n=x. x. xx
<b>Lamp ECO Hours</b>		return code (ok)
Status ?	(LME?)	(0-65535, n) n=lamp hours
<b>Lamp Normal Hours</b>		return code (ok)
Status ?	(LMO?)	(0-65535, n) n=lamp hours
<b>Lamp ECO Blank Hours</b>		return code (ok)
Status ?	(LML?)	(0-65535, n) n=lamp hours
<b>Lamp Hours</b>		return code (ok)
Status ?	(LMP?)	(0-65535, n) n=lamp hours
<b>Total ECO Hours</b>		return code (ok)
Status ?	(LTE?)	(0-65535, n) n=lamp hours
<b>Total Normal Hours</b>		return code (ok)
Status ?	(LT0?)	(0-65535, n) n=lamp hours
<b>Total ECO Blank Hours</b>		return code (ok)
Status ?	(LTL?)	(0-65535, n) n=lamp hours
<b>Total Hours</b>		return code (ok)
Status ?	(LMT?)	(0-65535, n) n=lamp hours
<b>Lamp Hours Reset Times</b>		return code (ok)

Status ?	(LMR?)	(0-65535, n) n=lamp hours
<b>Lamp hours reset</b>		return code (ok)
exec	(LRT1)	
<b>Message</b>		return code (ok)
Status ?	(DMG?)	(0-1, n) n=0, 1
ON	(DMG1)	
OFF	(DMG0)	
ON & return	(DMG1!)	(0-1, 1)
OFF & return	(DMG0!)	(0-1, 0)
<b>Timer</b>		return code (ok)
Status ?	(AOT?)	(0-6, n) n=0-6
Never	(AOT0)	
5 Min	(AOT1)	
10 Min	(AOT2)	
15 Min	(AOT3)	
20 Min	(AOT4)	
25 Min	(AOT5)	
30 Min	(AOT6)	
Never & return	(AOT0!)	(0-6, 0)
5 Min & return	(AOT1!)	(0-6, 1)
10 Min & return	(AOT2!)	(0-6, 2)
15 Min & return	(AOT3!)	(0-6, 3)
20 Min & return	(AOT4!)	(0-6, 4)
25 Min & return	(AOT5!)	(0-6, 5)
30 Min & return	(AOT6!)	(0-6, 6)
<b>Ceiling Set</b>		return code (ok)
Status ?	(CEL?)	(0-3, n) n=0, 1, 2, 3
Front table	(CEL0)	
Front ceiling	(CEL1)	
rear table	(CEL2)	
rear ceiling	(CEL3)	
Front table & return	(CEL0!)	(0-3, 0)
Front ceiling & return	(CEL1!)	(0-3, 1)
rear table & return	(CEL2!)	(0-3, 2)
rear ceiling & return	(CEL3!)	(0-3, 3)
<b>Color space</b>		return code (ok)
Status ?	(CSM?)	(0-4, n) n=0-4
Auto	(CSM0)	
RBG	(CSM1)	
REC709	(CSM2)	
REC601	(CSM3)	
RGB Video	(CSM4)	
Auto & return	(CSM0!)	(0-4, 0)
RBG & return	(CSM1!)	(0-4, 1)
REC709 & return	(CSM2!)	(0-4, 2)
REC601 & return	(CSM3!)	(0-4, 3)
RGB Video & return	(CSM4!)	(0-4, 4)
<b>Keypad</b>		return code (ok)
Status ?	(KPE?)	(0-1, n) n=0, 1

enable	(KPE1)	
locked	(KPE0)	
enable & return	(KPE1!)	(0-1, 1)
locked & return	(KPE0!)	(0-1, 0)
<b>Max Lamp Life</b>		return code (ok)
Status ?	(LIF?)	("nnnn") n=lamp hours
<b>KEY Command</b>		return code (ok)
Menu	(KEY2)	
Increases Brightness	(KEY3)	(0-100, n)
Decreases Volume	(KEY4)	(0-10, n)
Decreases Brightness	(KEY7)	(0-100, n)
Increases volume	(KEY8)	(0-10, n)
Toggles help menu	(KEY10)	
Moves to next slide in powerpoint (sends PageUp via USB)	(KEY11)	
Moves to previous slide in powerpoint (sends PageDn via USB)	(KEY12)	
Toggles freeze state on or off	(KEY14)	
Selects next available source	(KEY16)	
Moves menu cursor left	(KEY17)	
Moves menu cursor right	(KEY18)	
Moves menu cursor up	(KEY19)	
Moves menu cursor down	(KEY20)	
Toggles power state on or off	(KEY23)	
Selects next available computer source	(KEY25)	
Selects next available video source	(KEY26)	
Increases keystone	(KEY32)	
Decreases keystone	(KEY33)	
Increases Magnify ratio	(KEY38)	
Decreases Magnify ratio	(KEY39)	
Toggles Magnify state on or off	(KEY40)	
Toggles audio mute state on or off	(KEY41)	
Toggles Audio Video mute	(KEY42)	
Performs programmed action of Custom Key	(KEY43)	
Toggles through available presets	(KEY44)	
Toggles state of blank screen on or off	(KEY49)	
Selects current menu item	(KEY50)	
Activates automatic image re- acquisition	(KEY51)	

Toggles through available resize modes	(KEY52)	
Toggles overscan state on or off	(KEY53)	
Increases contrast	(KEY54)	(0-100, n)
Decreases contrast	(KEY55)	(0-100, n)
Commands the system to power down	(KEY57)	(0-1, 0)
Commands the system to power up	(KEY58)	(0-1, 1)
Selects the Native aspect ratio	(KEY59)	(0-6, 1)
Selects the 16:9 aspect ratio	(KEY60)	(0-6, 3)
Selects the 4:3 aspect ratio	(KEY61)	(0-6, 2)
Selects the Letterbox aspect ratio	(KEY62)	(0-6, 4)
Turns off the blank screen	(KEY67)	
Turns on the blank screen	(KEY68)	
Selects the Auto aspect ratio	(KEY69)	(0-6, 0)
Selects the 16:10 aspect ratio	(KEY71)	(0-6, 6)
<b>AC Power On</b>		return code (ok)
Status ?	(APO?)	(0-1, n) n=0, 1
ON	(APO1)	
OFF	(APO0)	
ON & return	(APO1!)	(0-1, 1)
OFF & return	(APO0!)	(0-1, 0)
<b>Auto Keystone</b>		return code (ok)
Status ?	(AVK?)	(0-1, n) n=0, 1
ON	(AVK1)	
OFF	(AVK0)	
ON & return	(AVK1!)	(0-1, 1)
OFF & return	(AVK0!)	(0-1, 0)
<b>Brightness</b>		return code (ok)
Status ?	(BRT?)	(0-100, nn) n=0~100
Brightness +	(BRT+)	
Brightness -	(BRT-)	
Set Brightness & return	(BRTnn) n=0 ~ 100	
Brightness + & return	(BRT+!)	(0-100, nn) n=0~100
Brightness - & return	(BRT-!)	(0-100, nn) n=0~100
Set Brightness & return	(BRTnn!) n=0 ~ 100	(0-100, nn) n=0~100
<b>Closed Captions</b>		return code (ok)
Status ?	(CLC?)	(0-2, n) n=0, 1, 2
Disabled	(CLC0)	
CC1	(CLC1)	
CC2	(CLC2)	
Disabled & return	(CLC0!)	(0-2, 0)
CC1 & return	(CLC1!)	(0-2, 1)
CC2 & return	(CLC2!)	(0-2, 2)
<b>Contrast</b>		return code (ok)
Status ?	(CON?)	(0-100, nn) n=0~100
Contrast +	(CON+)	
Contrast -	(CON-)	
Set volume	(CONnn) n=0 ~ 100	

Contrast + & return	(CON+!)	(0-100, nn) n=0~100
Contrast - & return	(CON-!)	(0-100, nn) n=0~100
Set Contrast & return	(CONnn!) n=0 ~ 100	(0-100, nn) n=0~100
<b>Programmed Dimming</b>		return code (ok)
Status ?	(DCR?)	(0-1, n) n=0, 1
OFF	(DCR0)	
ON	(DCR1)	
OFF & return	(DCR0!)	(0-1, 0)
ON & return	(DCR1!)	(0-1, 1)
<b>Custom key</b>		return code (ok)
Status ?	(EFK?)	(0-9, n) n=0-9
Auto image	(EFK0)	
Freeze	(EFK1)	
Source info	(EFK2)	
Project info	(EFK3)	
Over scan	(EFK4)	
AV mute	(EFK5)	
Closed captions	(EFK6)	
Blank screen	(EFK7)	
Mute	(EFK8)	
Source	(EFK9)	
Auto image & return	(EFK0!)	(0-9, 0)
Freeze & return	(EFK1!)	(0-9, 1)
Source info & return	(EFK2!)	(0-9, 2)
Project info & return	(EFK3!)	(0-9, 3)
Over scan & return	(EFK4!)	(0-9, 4)
AV mute & return	(EFK5!)	(0-9, 5)
Closed captions & return	(EFK6!)	(0-9, 6)
Blank screen & return	(EFK7!)	(0-9, 7)
Mute & return	(EFK8!)	(0-9, 8)
Source & return	(EFK9!)	(0-9, 9)
<b>Internal Speaker</b>		return code (ok)
Status ?	(INT?)	(0-1, n) n=0, 1
ON	(INT1)	
OFF	(INT0)	
ON & return	(INT1!)	(0-1, 1)
OFF & return	(INT0!)	(0-1, 0)
<b>Language</b>		return code (ok)
Status ?	(LAN?)	(0-24, n) n=0-24
ENGLISH	(LAN0)	
FRENCH	(LAN1)	
GERMAN	(LAN2)	
ITALIAN	(LAN3)	
KOREAN	(LAN5)	
NORWEGIAN	(LAN6)	
PORTUGUESE	(LAN7)	
RUSSIAN	(LAN8)	
SIMPLIFIED_CHINESE	(LAN9)	
SPANISH	(LAN10)	
TRADITIONAL_CHINESE	(LAN11)	

SWEDISH	(LAN12)	
DUTCH	(LAN13)	
POLISH	(LAN14)	
TURKISH	(LAN15)	
DANISH	(LAN16)	
FINNISH	(LAN17)	
BAHASA_INDONESIAN	(LAN18)	
ARABIC	(LAN19)	
VIET	(LAN20)	
HUNGARIAN	(LAN21)	
CZECH	(LAN22)	
ROMANIAN	(LAN23)	
FARSI	(LAN24)	
ENGLISH & return	(LAN0!)	(0-24, 0)
FRENCH & return	(LAN1!)	(0-24, 1)
GERMAN & return	(LAN2!)	(0-24, 2)
ITALIAN & return	(LAN3!)	(0-24, 3)
KOREAN & return	(LAN5!)	(0-24, 5)
NORWEGIAN & return	(LAN6!)	(0-24, 6)
PORTUGUESE & return	(LAN7!)	(0-24, 7)
RUSSIAN & return	(LAN8!)	(0-24, 8)
SIMPLIFIED_CHINESE & return	(LAN9!)	(0-24, 9)
SPANISH & return	(LAN10!)	(0-24, 10)
TRADITIONAL_CHINESE & return	(LAN11!)	(0-24, 11)
SWEDISH & return	(LAN12!)	(0-24, 12)
DUTCH & return	(LAN13!)	(0-24, 13)
POLISH & return	(LAN14!)	(0-24, 14)
TURKISH & return	(LAN15!)	(0-24, 15)
DANISH & return	(LAN16!)	(0-24, 16)
FINNISH & return	(LAN17!)	(0-24, 17)
BAHASA_INDONESIAN & return	(LAN18!)	(0-24, 18)
ARABIC & return	(LAN19!)	(0-24, 19)
VIET & return	(LAN20!)	(0-24, 20)
HUNGARIAN & return	(LAN21!)	(0-24, 21)
CZECH & return	(LAN22!)	(0-24, 22)
ROMANIAN & return	(LAN23!)	(0-24, 23)
FARSI & return	(LAN24!)	(0-24, 24)
<b>Magnify</b>		return code (ok)
Status ?	(MGL?)	(0-100, nn) n=0~100
Magnify +	(MGL+)	
Magnify -	(MGL-)	
Set Magnification	(MGLnn) n=0 ~ 100	
Magnify + & return	(MGL+!)	(0-100, nn) n=0~100
Magnify - & return	(MGL-!)	(0-100, nn) n=0~100
Magnify & return	(MGLnn!) n=0 ~ 100	(0-100, nn) n=0~100
<b>OSD Position</b>		return code (ok)
Status ?	(OFF?)	(0-4, 0) n=0-4
Top Left	(OFF0)	
Top Right	(OFF1)	
Center	(OFF2)	



Lower Left	(OFF3)	
Lower Right	(OFF4)	
Top Left & return	(OFF0!)	(0-4, 0)
Top Right & return	(OFF1!)	(0-4, 1)
Center & return	(OFF2!)	(0-4, 2)
Lower Left & return	(OFF3!)	(0-4, 3)
Lower Right & return	(OFF4!)	(0-4, 4)
<b>Presets</b>		return code (ok)
Status ?	(PST?)	(0-13, n) n=0-13
User	(PST1)	
Presentation	(PST5)	
Video	(PST7)	
Bright	(PST10)	
Whiteboard	(PST11)	
Blackboard	(PST12)	
Beige Wall	(PST13)	
User & return	(PST1!)	(0-13, 1)
Presentation & return	(PST5!)	(0-13, 5)
Video & return	(PST7!)	(0-13, 7)
Bright & return	(PST10!)	(0-13, 10)
Whiteboard & return	(PST11!)	(0-13, 11)
Blackboard & return	(PST12!)	(0-13, 12)
Beige Wall & return	(PST13!)	(0-13, 13)
<b>Computer1 Audio input</b>		return code (ok)
Status ?	(SA0?)	(1-2, n) n=1, 2
Audio input 1	(SA01)	
Audio input 2	(SA02)	
Audio input 1 & return	(SA01!)	(1-2, 1)
Audio input 2 & return	(SA02!)	(1-2, 2)
<b>Computer2 Audio input</b>		return code (ok)
Status ?	(SA1?)	(1-2, n) n=1, 2
Audio input 1	(SA11)	
Audio input 2	(SA12)	
Audio input 1 & return	(SA11!)	(1-2, 1)
Audio input 2 & return	(SA12!)	(1-2, 2)
<b>Composite / SVideo Audio input</b>		return code (ok)
Status ?	(SA2?)	(1-2, n) n=1, 2
Audio input 1	(SA21)	
Audio input 2	(SA22)	
Audio input 1 & return	(SA21!)	(1-2, 1)
Audio input 2 & return	(SA22!)	(1-2, 2)
<b>HDMI Audio input</b>		return code (ok)
Status ?	(SA4?)	(1-3, n) n=1, 2, 3
Audio input 1	(SA41)	
Audio input 2	(SA42)	
HDMI audio	(SA43)	
Audio input 1 & return	(SA41!)	(1-3, 1)
Audio input 2 & return	(SA42!)	(1-3, 2)
HDMI audio & return	(SA43!)	(1-3, 3)



Result	Priority
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	





Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	













Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
redundant	
Pass	
Pass	
Pass	
Pass	
Pass	
redundant	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	
Pass	