

## **HD Hanna RS-232C Remote Control Operation**

### **HD HANNA - Video Processor – Model KD-HD1080P**

You can remotely control HD Hanna functions through the rear – panel RS-232C connector, using a Hyper Terminal or other compatible interface. Set your RS-232C connection to 57600 baud, 8 data bits, no parity. When creating command strings, make sure to insert sufficient time delays before each command. Test all of your command strings to determine the proper time delay between commands.

Contact [tech@keydigital.com](mailto:tech@keydigital.com) for further details of the RS-232C discrete commands codes.

### **LIST OF RS-232C COMMAND CODES**

#### **help – Help**

Displays the help screen

#### **Input – Input channel selection**

Usage: input {1,.....9} <enter>

Input 1<enter> : ANT1  
Input 2<enter> : ANT2  
Input 3<enter> : SD Component 1  
Input 4<enter> : SD Component 2  
Input 5<enter> : Composite 1  
Input 6<enter> : Composite 2  
Input 7<enter> : S-Video 1  
Input 8<enter> : S-Video 2  
Input 9<enter> : Expansion HD component

Note : 'exit' command should follow if expansion HD component input is selected ( input 9 ),

#### **compt - component 1 input pass-through**

#### **rgbpt - RGBHV input pass-through**

#### **chup – channel up**

#### **chdn – channel down**

#### **channel – channel [major ch][sub ch]**

#### **ar – aspect ratio control**

Usage: ar {0,.....4} <enter>

ar 0<enter> : full  
ar 1<enter> : h-zoom  
ar 2<enter> : v-zoom  
ar 3<enter> : letterbox  
ar 4<enter> : pillar box

### **arsd – SD composite output aspect ratio control**

Usage: arsd {0,.....4} <enter>

arsd 0<enter> : full  
arsd 1<enter> : h-zoom  
arsd 2<enter> : v-zoom  
arsd 3<enter> : letterbox  
arsd 4<enter> : pillar box

### **resolution – set up output resolution**

Usage: resolution {0,.....9} <enter>

resolution 0<enter> : 1920x1080p 60hz  
resolution 1<enter> : 1920x1080p 24hz  
resolution 2<enter> : 1920x1080i  
resolution 3<enter> : 1400x1050p  
resolution 4<enter> : 1280x768p  
resolution 5<enter> : 1368x768p  
resolution 6<enter> : 1280x720p  
resolution 7<enter> : 1920x540p  
resolution 8<enter> : 720x480p  
resolution 9<enter> : 720x480i

### **outbrightup – increase main output brightness**

### **outbrightdown – decrease main output brightness**

### **outbrightness – adjust main output brightness[ -0x32 ~ 0x32 ]**

Usage: outbrightness <hexa> <enter>

outbrightness 1a<enter> : set up brightness decimal 26

### **outcontup – increase main output contrast**

### **outcontdown – decrease main output contrast**

### **outcontrast – adjust main output contrast[ -0x32 ~ 0x32 ]**

Usage: outcontrast <hexa> <enter>

outcontrast -10<enter> : set up contrast decimal -16

### **outsatup – increase main output saturation by 1**

### **outsatdown - decrease main output saturation by 1**

**outsaturation – adjust main output saturation [ -0x32 ~ 0x32 ]**

Usage: outsaturation <hexa> <enter>

outsaturation a<enter> : set up saturation decimal 10

**outhueup - increase main output hue by 1**

**outhuedown - decrease main output hue by 1**

**outputhue - adjust main output hue [ -0x2d ~ 0x2d ]**

Usage: outputhue <hexa> <enter>

outputhue 11<enter> : set up hue decimal 17

**outsharpup - increase main output sharpness by 1**

**outsharpdn - decrease main output sharpness by 1**

**outsharpness - adjust main output sharpness [ -0x32 ~ 0x32 ]**

Usage: outsharpness <hexa> <enter>

outsharpness 32<enter> : set up sharpness decimal 50

**picturedefault – setting picture adjust to factory default**

**outposhup – increase main output horizontal position**

**outposhdown – decrease main output horizontal position**

**outposvup – increase main output vertical position**

**outposvdown – decrease main output vertical position**

**polarity – set output sync polarity**

Usage: polarity {0,1} <enter>

polarity 0<enter> : set output sync polarity low

polarity 1<enter> : set output sync polarity high

**outsizehup – increase main output horizontal size**

**outsizehdown – decrease main output horizontal size**

**outsizevup – increase main output vertical size**

**outsizevdown – decrease main output vertical size**

**inoffsethup – increase horizontal input offset**

**inoffsethdown – decrease horizontal input offset**

**inoffsetvup – increase vertical input offset**

**inoffsetvdown – decrease vertical input offset**

**sdbrightup – increase SD output brightness**

**sdbrightdown – decrease SD output brightness**

**sdbrightness – adjust SD output brightness [ -0x32 ~ 0x32 ]**

Usage: sdbrightness <hexa> <enter>

`sdinbrightness 5<enter>` : set up SD output brightness decimal 5

**sdincontup – increase SD output contrast**

**sdincontdown – decrease SD output contrast**

**sdincontrast – adjust SD output contrast [ -0x32 ~ 0x32 ]**

Usage: `sdincontrast <hexa> <enter>`

`sdincontrast 0<enter>` : set up SD output contrast decimal 0

**sdinputdefault – setting SD output picture adjust to factory default**

**volup – volume up**

**voldown – volume down**

**volume – adjust volume [ 0~50 ]**

Usage: `volume <hexa> <enter>`

`volume c<enter>` : set volume decimal 12

**autosearch – start channel search**

Usage: `autosearch {0,1}<enter>`

`autosearch 0<enter>` : start ANT A channel search

`autosearch 1<enter>` : start ANT B channel search

**epg – view EPG**

**poweroff – power off**

**exitosd – erase osd**

**muteon – audio mute on**

**muteoff – audio mute off**

**freezeon – output video freeze on**

**freezeoff – output video freeze off**

**infowinon – information window on**

**infowinoff – information window off**

**exit – exit from RS-232 command mode**

**ipoweron – firewire device power on**

**ipoweroff – firewire device power off**

**irec – firewire device record**

**isplay – firewire device play**

**istop – firewire device stop**  
**ibs – firewire device back skip**  
**ifs – firewire device forward skip**  
**ipause – firewire device pause**