

HDMI4x1 RS-232C Remote Control Operation

HDMI4x1 – HDMI Switcher – Model KD-HDMI4x1

You can remotely control HDMI4x1 functions through the rear – panel RS-232C connector, using a Hyper Terminal or other compatible interface. Set your RS-232C connection to 19200 baud, 8 data bits, 1 stop bit, 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 for further details of the RS-232C discrete commands codes.

LIST OF RS-232C COMMAND CODES

H, h, help<enter> – Help

Displays the help screen

n<enter> – Native Output Control

Set output resolution same with input resolution.

s<enter> – Status

Displays HDMI4x1 status

m – audio mute

Usage: m<enter>{0,1}<enter>

m<enter>0<enter>	mute off
m<enter>1<enter>	mute on

fd – factory default

Usage: fd<enter>y

fd<enter>y	perform factory default
fd<enter>n	cancel to default

t – input test pattern

Usage: t<enter>{0,1,2}<enter>

t<enter>0<enter>	normal display
t<enter>1<enter>	horizontal ramp pattern
t<enter>2<enter>	color bar pattern

T – output test pattern

Usage: T<enter>{0...9}<enter>

T<enter>0<enter>	normal display
T<enter>1<enter>	white pattern
T<enter>2<enter>	cross pattern
T<enter>3<enter>	cross hatch pattern
T<enter>4<enter>	color bar pattern
T<enter>5<enter>	gray scale pattern
T<enter>6<enter>	white window pattern
T<enter>7<enter>	horizontal ramp pattern
T<enter>8<enter>	wide horizontal ramp pattern
T<enter>9<enter>	wide vertical ramp pattern

or – output resolution control

Usage: or<enter>{0...9}<enter>

or<enter>0<enter>	1920x1080P
or<enter>1<enter>	1920x1080I
or<enter>2<enter>	1400x1050P
or<enter>3<enter>	1280x768P
or<enter>4<enter>	1368x768P
or<enter>5<enter>	1280x720P
or<enter>6<enter>	1920x540P
or<enter>7<enter>	720x480P
or<enter>8<enter>	720x480I
or<enter>9<enter>	640x480P

a – aspect ratio control

Usage: a<enter>{0...5}<enter>

a<enter>0<enter>	full mode
a<enter>1<enter>	letterbox mode
a<enter>2<enter>	pillarbox mode
a<enter>3<enter>	horizontal zoom
a<enter>4<enter>	vertical zoom
a<enter>5<enter>	horizontal and vertical zoom

in – input select

Usage: in<enter>{0...3}<enter>

in<enter>0<enter>	input 1
in<enter>1<enter>	input 2
in<enter>2<enter>	input 3
in<enter>3<enter>	input 4

ic – input color space control

Usage: ic<enter>{0...2}<enter>

ic<enter>0<enter>	input auto
ic<enter>1<enter>	input RGB
ic<enter>2<enter>	input YPbPr

oc – output color space control

Usage: oc<enter>{1,2}<enter>

oc<enter>1<enter>	output RGB
oc<enter>2<enter>	output YPbPr

p – power on/off

Usage: p<enter>{0,1}<enter>

p<enter>0<enter>	power off
p<enter>1<enter>	power on

hs – horizontal size control

Usage: hs+<enter>

hs-<enter>

hsr<enter>{-20...20}<enter>

hs+<enter>	increase horizontal size by 1
hs-<enter>	decrease horizontal size by 1
hsr<enter>7<enter>	set horizontal size 7
hsr<enter>-5<enter>	set horizontal size -5

vs – vertical size control

Usage: vs+<enter>

vs-<enter>

vsr<enter>{-20...20}<enter>

vs+<enter>	increase vertical size by 1
vs-<enter>	decrease vertical size by 1
vsr<enter>3<enter>	set vertical size 3
vsr<enter>-11<enter>	set vertical size -11

hi – horizontal input offset control

Usage: hi+<enter>

hi-<enter>

hir<enter>{0...20}<enter>

hi+<enter>	increase horizontal input offset by 1
hi-<enter>	decrease horizontal input offset by 1

hir<enter>5<enter> set horizontal input offset 5
hir<enter>17<enter> set horizontal input offset 17

vi – vertical input offset control

Usage: vi+<enter>
vi-<enter>
vir<enter>{0...20}<enter>

vi+<enter> increase vertical input offset by 1
vi-<enter> decrease vertical input offset by 1
vir<enter>2<enter> set vertical input offset 2
vir<enter>9<enter> set vertical input offset 9

hp – horizontal position control

Usage: hp+<enter>
hp-<enter>
hpr<enter>{-20...20}<enter>

hp+<enter> increase horizontal position by 1
hp-<enter> decrease horizontal position by 1
hpr<enter>-3<enter> set horizontal position -3
hpr<enter>12<enter> set horizontal position 12

vp – vertical position control

Usage: vp+<enter>
vp-<enter>
vpr<enter>{-20...20}<enter>

vp+<enter> increase vertical position by 1
vp-<enter> decrease vertical position by 1
vpr<enter>0<enter> set vertical position 0
vpr<enter>11<enter> set vertical position 11

sa – saturation control

Usage: sa+<enter>
sa-<enter>
sar<enter>{-50...50}<enter>

sa+<enter> increase saturation by 1
sa-<enter> decrease saturation by 1
sar<enter>-10<enter> set saturation -10
sar<enter>40<enter> set saturation 40

hu – hue control

Usage: hu+<enter>
hu-<enter>

hur<enter>{-50...50}<enter>

hu+<enter> increase hue by 1
hu-<enter> decrease hue by 1
hur<enter>16<enter> set hue 16
hur<enter>31<enter> set hue 31

sh – sharpness control

Usage: sh+<enter>
sh-<enter>
shr<enter>{-50...50}<enter>

sh+<enter> increase sharpness by 1
sh-<enter> decrease sharpness by 1
shr<enter>22<enter> set sharpness 22
shr<enter>-3<enter> set sharpness -3

b – brightness control

Usage: b+<enter>
b-<enter>
br<enter>{-50...50}<enter>

b+<enter> increase brightness by 1
b-<enter> decrease brightness by 1
br<enter>11<enter> set brightness 11
br<enter>-9<enter> set brightness -9

fm – PAL film mode control

<Note> This command is available only when input is PAL (50Hz)
For 60Hz input, HDMI4x1 automatically detects if input is film or not.

Usage: fm<enter>{0,1}<enter>

fm<enter>0<enter> film mode off
fm<enter>1<enter> film mode on