



Control Your Video...

**VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES**

Control Commands



Model #: HDM2-PROWALL-T4K

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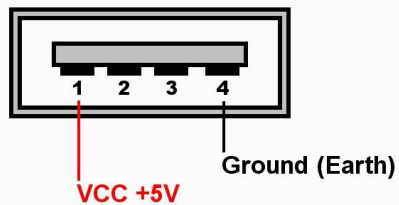
SECTION I: COMMAND PROTOCOL FORMAT (USB to SERIAL PORT)

I. SERIAL PORT SETTING

Mini USB cable from PC

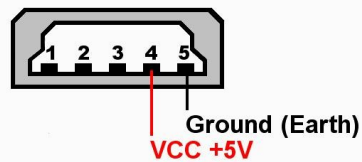


USB A



View from socket end

USB mini



View from socket end



2. RS-232 & TELNET COMMANDS

The first three bytes of command is header **0x7a 0xc1 0x5f**

The 4th bytes of the command is (length of the commands).(do not include the header) Define byte:**bit7 bit6 bit5 bit4 bit3 bit2 bit1 bit0**

Checksum is total sum of command number. (not include header)

Ex:**0x7a 0xc1 0x5f 0x03 0x01**

checksum Checksum=0x03

+0x01=0x04

1. Get Information of the input and which resolution

Command:**0x7a 0xc1 0x5f 0x04 0x04 0x00 0x08**

Feedback:**03 81 84 0xaa Signal 4k2kFlag**

WidthHighByte WidthLowByte HeightHighByte HeightLowByte

RotationMode

VideoMode **Synchronize 03 03 06**

Signal -> **1: input with signal**

0: No signal

4k2kFlag-> **1:Source is 4k2k 60/30**

0:Source not 4k2k 60/30

Width=widthHighByte<<8+ widthLowByte

ex: **1920 =0x07<<8+ 0x80 =0x780**

Height is also shown the same as above.

RotationMode:**Current display mode is in rotated mode**

VideoMode: **:Current display mode is in videowall mode**

Synchronize-> **1:Output is Synchronize 0:output is not Synchronize**

*When Synchronize mode 4 output need set to the same resolution.

2. Get output resolution

Command:**0x7a 0xc1 0x5f 0x05 0x04 0x04 0x00 0x0D**

Feedback:**03 81 84 Out1 Out2 Out3 Out4 03 03 06**

out1-out4 are index of each output resolution

index is form **0 to 14**

640x480、480P、576P、800x600、1024x768、720P、1280x768、1280x960

1280x1024、1366x768、1440x900、1680x1050、1080P、1920x1200、1600x1200

3. Set output resolution

Command:**0x7a 0xc1 0x5f 0x06 0x04 0x04 0x01 output resolution checksum**

Output is index of out1-out4 ->**value 0-3 out1-0 out2-1 out3-2 out4-3**

Resolution index is form **0 to 14**

640x480、480P、576P、800x600、1024x768、720P、1280x768、1280x960

1280x1024、1366x768、1440x900、1680x1050、1080P、1920x1200、1600x1200

Feedback:03 81 84 03 03 06



4.Synchronize enable/disable

Command:0x7a 0xc1 0x5f 0x05 0x04 0x05 enable checksum

Enable-> 1:enable 0:disable

Feedback:03 81 84 03 03 06

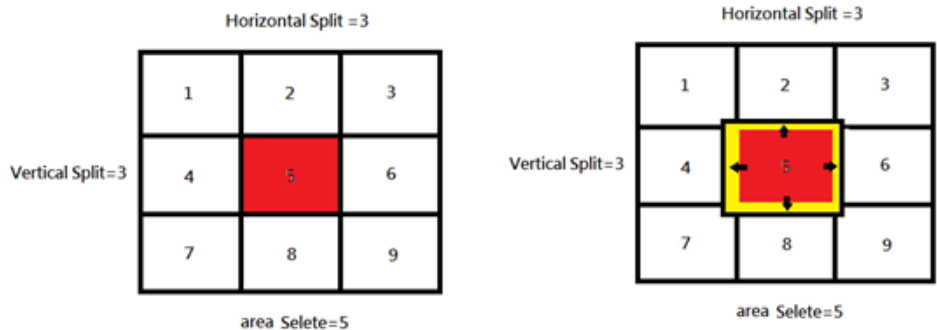
5. Set Split video wall setting (except 4k2k)

Command:0x7a 0xc1 0x5f 0x05 0x04 0x01 outIndex areaSelect HorizontalSplit verticalSplit

LeftHB LeftLB RightHB RightLB UpHB UpLB DownHB DownLB checksum

outIndex: out1-0 out2-1 out3-2 out4-3

EX:



As per the right picture,you can set left right up and down parameter to enlarge area selected.

Left=LeftHB<<8+LeftLB

Right=RightHB<<8+RightLB

Up=UpHB<<8+UpLB

Down=DownHB<<8+DownLB

6. Get Split video wall setting

Command:0x7a 0xc1 0x5f 0x05 0x04 0x02 outIndex checksum

Feedback:03 81 84 areaSelect HorizontalSplit verticalSplit LeftHB LeftLB RightHB

RightLB UpHB UpLB DownHB DownLB 03 03 06

7.Get split video setting when input is 4k2k

Command:0x7a 0xc1 0x5f 0x04 0x0a outIndex checksum

outIndex: out1-0 out2-1 out3-2 out4-3

Feedback:03 81 84 HorizontalStartHB HorizontalStartLB VerticalStartHB VerticalStartLB

WidthHB WidthLB HeightHB HeightLB 03 03 06



8. Set split video setting when input is 4k2k

Command:0x7a 0xc1 0x5f 0x0D 0x09 0x00 HorizontalStartHB HorizontalStartLB
VerticalStartHB VerticalStartLB WidthHB WidthLB HeightHB HeightLB outIndex
checksum

outIndex: out1-0 out2-1 out3-2 out4-3

Weight not over 1920 and Height not over 1080

Feedback:03 81 84 03 03 06

9.Fast split

Command:0x7a 0xc1 0x5f 0x05 0x04 0x03 type checksum

Type: 0x00:full screen 1x1

0x01 layout 2x2

0x02 layout 1x4

0x03 layout 4x1

Feedback:03 81 84 03 03 06

10.Fast split with rotation(rotate only support I/O 1080P)

Command:0x7a 0xc1 0x5f 0x05 0x04 0x06 type checksum

Type: 0x01:1x3 rotate -90

0x02 1x4 rotate +90

0x03 1x3 rotate -90

0x04 1x4 rotate +90

Feedback:03 81 84 03 03 06

11.Learn EDID deault

Command:0x7a 0xc1 0x5f 0x05 0x04 0x09 0x01 EDID-index

EDID-index: 0x00-> 1080P 0x01-> 1080i/720P 0x02->4k2k

Feedback:03 81 84 03 03 06

12.Learn EDID Display

Command:0x7a 0xc1 0x5f 0x05 0x04 0x09 0x02 EDID-index

EDID-index: out1-0x0 out2-0x1 out3-0x2 out4-0x3

13.Read IP config

Command:0x7a 0xc1 0x5f 0x03 0x93 0x00

Feedback:03 81 84 DHCP/Static IP1 IP2 IP3 IP4 mask1 mask2 mask3

Mask4 gateway1 gateway2 gateway3 gateway4 03 03 06

DHCP/Static:DHCP=0 Static= 1



14. Set IP config

Command:0x7a 0xc1 0x5f 0x03 0x93 0x01 DHCP/
Static IP1 IP2 IP3 IP4 mask1 mask2 mask3
Mask4 gateway1 gateway2 gateway3 gateway4
DHCP/Static:DHCP=0 Static= 1 if set DHCP mode
IP mask gateway set to 0

Feedback:03 81 84 03 03 06





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