

Diagnostic Features for VIP-200H II & VIP-300H-U IP Distribution Systems

The PureStream [VIP-200H II](#) and [VIP-300H-U](#) USB/KM video over IP encoders/decoders provide a full set of advanced diagnostic capabilities allowing users to monitor the entire system including connected devices such as sources and displays. Any third party control or custom program can take advantage of the reporting features built into the VIP-200H II and VIP-300H-U modules, allowing users to create a rich and dynamic UI and management system.



VIP-200H II Tx/Rx



VIP-300H-U Tx/Rx

Key Features

- Detect input signal status on encoders
- Acquire detailed source data
- Detect output (display) signal status on decoders
- Acquire EDID table of display
- Acquire selected input channel/stream for decoders
- Get MAC addresses of all encoders/decoders on network subnet node
- Get IP information of all devices
- Determine active state of all functions: video, audio, USB, RS-232, IR
- Acquire video wall settings and image rotation of each decoder
- Get switch layer information of each decoder (audio, video, USB, RS-232, IR)
- Get Ethernet link status
- Determine if device is set to video or graphics mode
- Determine dithering settings of each device

Example of PureLink's VPX Management Software utilizing the VIP API diagnostics to provide visual reporting of system status.



Example of diagnostic information available through the VIP-200H II/300H-U API commands

```
Checksum: ok
CEA Ext: y
CEA Ext Checksum: ok
HDMI 2.0: n
Input Signal: digital
Support Features:
  yuv: y
  hdr: n
Preferred Timing:
  1920x1080@60Hz,Prog (idx 13, sn 13)
EDID:
  00 ff ff ff | ff ff ff 00 | 42 d4 1d f0 | 4c 37 59 30 |
  0f 16 01 03 | 80 33 1d 78 | ee ee 95 a3 | 54 4c 99 26 |
  0f 50 54 a5 | 4b 00 71 4f | 81 80 d1 c0 | 01 01 01 01 |
  01 01 01 01 | 01 01 02 3a | 80 18 71 38 | 2d 40 58 2c |
  45 00 fe 1f | 11 00 00 1e | 00 00 00 ff | 00 35 4d 4b |
  4b 4b 30 34 | 41 30 59 37 | 4c 0a 00 00 | 00 fc 00 4d |
  41 54 52 49 | 58 20 34 2a | 34 20 20 20 | 00 00 00 fd |
  00 38 4c 1e | 53 11 00 0a | 20 20 20 20 | 20 20 01 27 |
  02 03 1f f1 | 4c 90 02 03 | 01 07 16 12 | 04 1f 13 14 |
  05 23 09 7f | 07 65 03 0c | 00 10 00 83 | 01 00 00 02 |
  3a 80 18 71 | 38 2d 40 58 | 2c 45 00 fe | 1f 11 00 00 |
  1e 01 1d 80 | 18 71 1c 16 | 20 58 2c 25 | 00 fe 1f 11 |
  00 00 9e 01 | 1d 00 72 51 | d0 1e 20 6e | 28 55 00 fe |
  1f 11 00 00 | 1e 8c 0a d0 | 8a 20 e0 2d | 10 10 3e 96 |
  00 fe 1f 11 | 00 00 18 00 | 00 00 00 00 | 00 00 00 00 |
  00 00 00 00 | 00 00 00 00 | 00 00 00 00 | 00 00 00 67 |

/ # cat /sys/devices/platform/display/timing_infocat /sys/devices/platform/display/timing_info
cat: can't open '/sys/devices/platform/display/timing_infocat': No such file or directory
timing=[13] 1920x1080p@60Hz H+ V+, Serial Number[0x000D]
type=HDMI 16:9
HDCP=n (Disable)
color depth=0
/ # cat /sys/devices/platform/display/timing_info
```

```
multicast_on=y
ip_mode=static
ipaddr=169.254.1.101
netmask=255.255.0.0
gatewayip=169.254.1.1
reset_ch_on_boot=n
VPXID=881a2158-2574-4da7-92d9-de6890ce7ba0
en_video_wall=y
vw_pos_idx=r0c0
vw_moninfo_ha=1
vw_moninfo_ht=1
vw_moninfo_va=1
vw_moninfo_vt=1
vw_stretch_type=2
vw_rotate=0
vw_max_row=0
vw_max_column=0
vw_row=0
vw_column=0
vw_ver=1
vw_pos_max_row=0
vw_pos_max_col=0
ch_select_v=0002
ch_select_u=0002
ch_select_a=0002
ch_select_s=0002
ch_select_r=0002
ch_select_p=0002
/ # lmparam dump
IS_HOST=n
STATE=s_srv_on
ACCESS_ON=y
DBG=0
SHARE_USB=n
SHARE_USB_AUTO_MODE=n
SHARE_USB_ON_FIRST_PEER=y
CH_SELECT=1000
HOSTNAMEBYDIPSWITCH=n
RESET_CH_ON_BOOT=n
HOSTNAME_ID=82FDE591049F
```