



## **Prestel 4K-PTZ831DV-W**

UHD 4K camera



**DATASHEET**

# 4K-PTZ831DV-W



This is a brand new UHD 4K camera, including 31X optical zoom 59° wide-angle lens. It has complete functions, excellent performance and rich interfaces. Boasting advanced ISP processing technology and algorithm, cameras deliver the vivid image and uniform picture brightness.

- 4K UHD Resolution: SONY CMOS sensor. Resolution is up to 4K with frame rate up to 60fp.
- Dual Stream Output: USB support the main stream and sub stream output at the same time, and can meet the needs of near-end and far-end;
- 31X optical zoom 59° wide-angle lens.
- Interfaces: Support HDMI, SDI, USB 2.0, LAN (POE, **NDI optional**), and HDMI, USB, LAN output 4K audio and video at the same time.
- Leading Auto Focus Technology: Fast, accurate and stable auto focusing technology.
- Low Noise and High SNR: Super high SNR image is achieved with low noise CMOS. Advanced 3D noise reduction technology further reduces the noise while ensuring high image clarity.
- Multiple Audio/Video Compression Standards: LAN interface supports H.264/H.265 video compression, USB2.0 interface supports MJPG, H264, YUY2, NV12, H265; A-IN interface supports AAC audio compression coding.
- Audio Input Interface: 8000 sampling frequency. Support AAC audio compression.
- Multiple Network Protocol: Support ONVIF, GB/T28181, RTSP, RTMP, SRT, FreeD, **NDI(optional)**, **Dante AV-H(optional)** protocols; Support RTMP push mode, easy to be connected to streaming server (Wowza, FMS); Support RTP multicast mode; Support network full command VISCA control protocol.
- Control Interface: RS422 input (compatible with RS485), RS232 input/output, RS232 (cascade connection).
- Multiple Control Protocol: Support VISCA, PELCO-D, PELCO-P protocols;

- Support automatic identification protocols.
- Multiple Presets: Up to 255 presets (10 presets via remote control)
- AI Human Detection: Built in high speed processor and advanced image processing and analysis algorithm, and real-time tracking and zone tracking modes are available.
- Multiple Application: Online-education, Lecture Capture, Webcasting, Video conferencing, Tele-medicine, Unified Communication, Emergency command and control systems, etc.

## Technical Specification

| Camera Parameter |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical Zoom     | 31X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Focal Length     | f=6.91 mm~214.21 mm ±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Viewing Angle    | Horizontal: 1.98°(N)~ 59°(W)<br>Vertical: 1.12°(N)~ 34.14°(W)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Iris Value       | F1.35 ~ F4.6±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Image Sensor     | 1/1.8 inch SONY CMOS sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Effective Pixels | 8.29M megapixel 16: 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Video Format     | HDMI:<br>3840*2160P60/50/25/59.94/29.97; 1080P60/50/ 30/25/59.94/29.97;<br>1080I60/50/59.94; 720P60/50/59.94;<br>SDI:<br>1080P60/50/30/25/59.94/29.97; 1080I60/50/59.94; 720P60/50/59.94<br>USB2.0:<br>MJPG: 3840*2160/1920*1080/1280*720<br>/1024*768 /1024*576/800*600/720*576/720*480/704*576/640*480<br>/640*360 /352*288/320*240P30;<br>H.264:<br>3840*2160/1920*1080/1280*720/1024*768 /1024*576/800*600/720*<br>576/720*480/704*576/640*480 /640*360 /352*288/320*240P30;<br>H.265: 1920*1080/1280*720 |

|                      |                                                                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | /1024*768/1024*576/800*600/720*576/720*480/704*576/640*480/640*360/352*288/320*240P30;<br>YUY2: 800*448/720*480P25; 640*360/432*240P30<br>NV12: 800*448P25; 640*480/640*360/432*240P30 |
| Minimum Illumination | 0.05Lux(F1.8, AGC ON)                                                                                                                                                                  |
| Digital zoom         | 8X                                                                                                                                                                                     |
| DNR                  | 3D DNR                                                                                                                                                                                 |
| White Balance        | Auto / Manual/ One Push/ Specified Temperature                                                                                                                                         |
| Focus                | Auto/Manual/One Push Focus                                                                                                                                                             |
| Exposure Mode        | Auto/Manual/Shutter priority/Aperture priority/brightness priority                                                                                                                     |
| Aperture             | F1.8 ~ F11, CLOSE                                                                                                                                                                      |
| Shutter Speed        | 1/25~1/10000                                                                                                                                                                           |
| BLC                  | ON/OFF                                                                                                                                                                                 |
| WDR                  | OFF/ Dynamic level adjustment                                                                                                                                                          |
| Video Adjustment     | Brightness, Color, Saturation, Contrast, Sharpness, B/W mode                                                                                                                           |
| SNR                  | ≥50dB                                                                                                                                                                                  |

| AI Function             |                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------|
| Real-time Tracking Mode | The longest tracking distance can reach 6-7 meters, which can support the speaker to walk at a speed of 5-6 mph |
| Zone Tracking Mode      | 4 tracking zones are available, which can be set within -110°~+110°in horizontal and 30°~+30° in vertical.      |

| Interface Parameter |                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------|
| Video Interfaces    | HDMI, SDI, LAN(Support POE+), USB2.0, A-IN, RS232-IN, RS232-OUT, RS422(Compatible with RS 485), Rotary DIP switch, |

|                                     |                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|                                     | DC12V Power Supply, NDI HX3(optional), Dante(optional), Power Switch                                                   |
| Video Compression Format            | LAN: H.264, H.265<br>USB 2.0: MJPG, H.264, H.265, YUY2, NV12                                                           |
| Audio Input                         | Double track 3.5mm linear input                                                                                        |
| Audio Output                        | HDMI, LAN, USB2.0, SDI                                                                                                 |
| Audio Compression Format            | AAC                                                                                                                    |
| LAN Jack                            | 10M/100M/1000M adaptive Ethernet port, support POE+(802.3at) power supply, support audio and video output              |
| Network Protocols                   | RTSP, RTMP, ONVIF, GB/T28181, SRT, FreeD, NDI(optional), Dante AV-H(optional); Support network VISCA control protocol; |
| Control Jacks                       | RS232-IN, RS232-OUT, RS422 compatible with RS485                                                                       |
| Serial Port Communication Protocols | VISCA/Pelco-D/Pelco-P; Support Baudrate: 115200/38400/9600/4800/2400                                                   |
| USB Communication Protocol          | UVC(Video Communication Protocol)<br>UAC(Audio Communication Protocol)                                                 |
| Power Supply                        | HEC3800 Outlet (DC12V)                                                                                                 |
| Power Adapter                       | AC110V~AC220V to DC12V/2.5A                                                                                            |
| Input Voltage                       | DC12V±10%                                                                                                              |
| Input Current                       | ≤1.38A                                                                                                                 |
| Consumption                         | ≤16.35W                                                                                                                |

Dante AV-H

|                 |                                |
|-----------------|--------------------------------|
| Video Codec     | H.264 codec by SoC             |
| Video Format    | 1920*1080/1280*720P60/50/30/25 |
| Video Streaming | Unicast or Multicast           |
| Latency-Codec   | ≤120ms at 1080p60              |
| Bandwidth       | 4-8Mbps at 1080p60             |

| PTZ Parameter   |                                          |
|-----------------|------------------------------------------|
| Pan Move        | -110°~+110°                              |
| Tilt Move       | -27°~+27°                                |
| Pan Speed       | 0.1°/s~100°/s                            |
| Tilt Speed      | 0.1°/s~70°/s                             |
| Preset Speed    | Pan: 78.8°/s, Tilt:31.7°/s               |
| Preset Quantity | Up to 255 preset (10 via remote control) |

| Other Parameter     |                            |
|---------------------|----------------------------|
| Storage Temperature | -10℃~+60℃                  |
| Storage Humidity    | 20%~95%                    |
| Working Temperature | -10℃~+50℃                  |
| Working Humidity    | 20%~80%                    |
| Dimension           | 220(L)mm×144mm(W)×159mm(H) |

|             |         |
|-------------|---------|
| Weight      | 1.7kg   |
| Environment | Indoors |

**Product Dimension**

