

KT-BC10KV

30X 1/1.8-inch Broadcast Grade PTZ Camera

4K60fps

30x Optical Zoom

USB3.0+HDMI+LAN+SDI

12G SDI×2

Free D

NDI®|HX

AI Tracking +Auto Framing

Gesture Recognition



Features

■ 4K Ultra HD Output:

Using a new generation of SONY 1/1.8-inch high-quality CMOS, it can achieve maximum 4K60 ultra-high-definition resolution broadcast and image output, and even larger scene recording.

■ 30X Optical Zoom Lens:

Equipped with a 30x ultra-high-definition optical lens and supports the mainstream horizontal viewing angle of 59°, can meet the needs of more scenes such as video conferencing in large auditoriums and blackboard writing in lecture theaters to restore true details.

■ USB3.0+HDMI+LAN+SDI Full interfaces, Rich Application Scenarios:

A rich array of video output interfaces, HDMI+USB3.0 Type-B+12G-SDI+LAN can simultaneously output 4K60 resolution, while 3G-SDI supports 1080p60 resolution output. All interfaces can output simultaneously.

■ Low Light:

The new ultra-high signal-to-noise ratio CMOS image sensor can effectively reduce image noise under low-light conditions. At the same time, 2D & 3D digital noise reduction is applied to

significantly reduce image noise. Even under ultra-low light conditions, the image can still be kept clean and clear, and the image signal-to-noise ratio is higher than 50dB.

■ Infrared Remote Control Signal Transparent Transmission Function:

In addition to receiving its own infrared remote control signals, it can also receive signals from user's infrared remote control and send them to the video conferencing terminal through the VISCA port.

■ Multiple Video Compression Standards:

Different interfaces support multiple video compression formats such as YUY2, H.265, MJPG, and H.264.

■ Multiple Network Protocols:

Supports ONVIF, SRT, RTSP, RTMP, Free D, NDI®/HX and other network protocols.

* Free D protocol is being continuously updating, please refer to the shipping version.

■ Multiple Control Protocols:

Supports VISCA (including VISCA Over IP), PELCO P/D, NDI® protocols, and automatically identifies protocols.

■ Next-generation Human and Facial Recognition Tracking Algorithm

Supports intelligent tracking, automatic framing, and gesture recognition functions. It enables control through five types of gestures, such as activating/deactivating intelligent tracking and automatic framing, switching tracked targets using gestures, customizing tracking sizes, and zooming in/out the lens through gesture control.

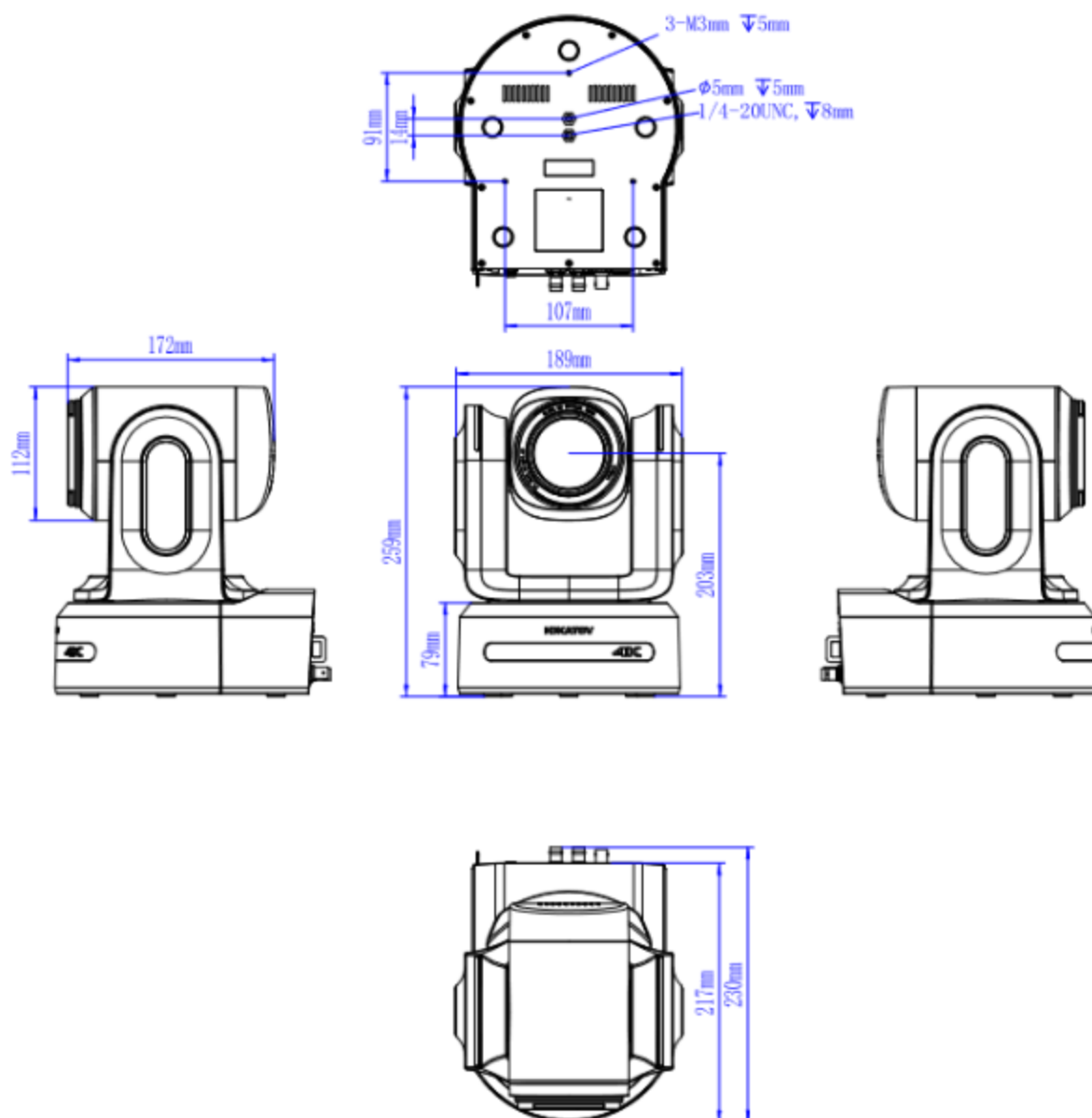
Specifications

| Image Parameters | |
|-----------------------|--|
| Resolution | HDMI: 4K60/59.94/50/30/29.97/25, 1080p60/59.94/50/30/29.97/25, 1080i60/59.94/50, 720p60/50 12G-SDI: 4K60/59.94/50/30/29.97/25, 1080p60/59.94/50/30/29.97/25, 1080i60/59.94/50, 720p60/50 3G-SDI: 1080p60/59.94/50/30/29.97/25, 1080i60/59.94/50, 720p60/50 |
| Image Sensor | SONY 1/1.8 CMOS |
| Pixels | 8.50 Megapixels, 8.29 Effective Megapixels |
| Scan Mode | Line by line |
| Lens | 30X Optical Zoom, f=6.91(W)~214.64mm(T), F1.35~F4.6 |
| Digital Zoom | 16X |
| Horizontal View Angle | 59°(W)~1.98°(T) |
| Vertical View Angle | 34.14°(W)~1.12°(T) |
| Focus System | Auto, Manual |
| Shutter Speed | 1/50s ~ 1/10000s |
| Minimum Illumination | 0.1Lux |

| | |
|-------------------------|---|
| Exposure | Auto, Manual, Iris Priority, Shutter Priority, Brightness priority |
| White Balance | Auto, Indoor, Outdoor, Keying, Auto Tracking |
| Backlight Compensation | Support |
| Digital Noise Reduction | 2D&3D Digital noise reduction |
| S/N Ratio | ≥50dB |
| Pan/Tilt | |
| Pan Angle | -167°~+167° |
| Tilt Angle | -30°~+90° |
| Pan Speed | 0.1°/S~120°/S |
| Tilt Speed | 0.1°/S~120°/S |
| Preset Positions | 9 preset positions by IR remote controller, 255 preset positions by joystick controller or PC |
| Preset Accuracy | 0.1°±10% |
| Flip | Support |
| Image Freeze | Support |
| POE++ | 802.3bt Type 3 |
| USB | |
| Protocol | UVC 1.1, UAC1.0 |
| Operating System | Window7 and above, MacOS, Linux, Android |
| Video Compression | YUY2, MJPEG |
| Resolution | MJPEG: 3840*2160, 2560*1440, 1920*1080, 1280*720, 960*540, 800*600, 720*576, 720*480, 640*480, 640*360, 352*288, 320*240 YUY2: 1920*1080, 1280*720, 960*540, 800*600, 720*576, 720*480, 640*480, 640*360, 352*288, 320*240 |
| Frame Rate | Max.60 |
| UVC PTZ Control | Support |
| LAN | |
| Protocol | TCP/IP, HTTP, RTSP, RTMP, RTMPS, SRT, Onvif, DHCP, VISCA Over IP, NDI@HX2 (optional), Free D |
| Video Compression | H.264, H.265 |
| Code Stream | Main code stream*1, Sub code stream*1 |
| Main Stream Resolution | 3840*2160, 1920*1080, 1280*720 |
| Sub Stream Resolution | 640*480, 640*360, 352*288, 320*240, 176*144 |
| Bit Rate Control | VBR, CBR |
| Audio | |
| Audio Compression | AAC |
| Sampling Rate | 48K, 44.1K |
| Interface | |

| | |
|-------------------------------|---|
| HDMI Interface | 1 Line, HDMI: Version2.0 |
| SDI Interface | 1 Line, 3G-SDI 2 Line, 12G-SDI |
| USB Interface | 1 Line, USB3.0, Type-A Socket 1 Line, UVC, Type-B Socket |
| Network Interface | 1 Line, RJ45: 1000M adaptive Ethernet port |
| Audio Interface | 1 Line, Line In, 3.5mm audio port 2 Line, AUDIO INPUT, XLR audio port |
| Serial Interface | 1 Line, RS232 IN/OUT, up to 30 meters, VISCA/Pelco-D/Pelco-P protocol 1 Line, RS422, up to 1200 meters, VISCA/Pelco-D/Pelco-P protocol |
| Power Interface | IEC 60130-10 Type A |
| General Specifications | |
| Tally Light | Support |
| Input Voltage | DC 12V |
| Input Current | Max. 1.3A |
| Power Consumption | Max. 15.6W |
| Phantom Power | 48V |
| Operating Temperature | 0~40℃ |
| Storage Temperature | -10~60℃ |
| Color | Black |
| Dimension | (W) 189* (D) 230* (H) 259mm |
| Weight | 4.15 kg |
| Accessories | DC12V power adapter, IR remote control, operating instructions, HDMI video cable, USB3.0 cable, RS-232 cable, bracket |

Dimension



Application scenarios



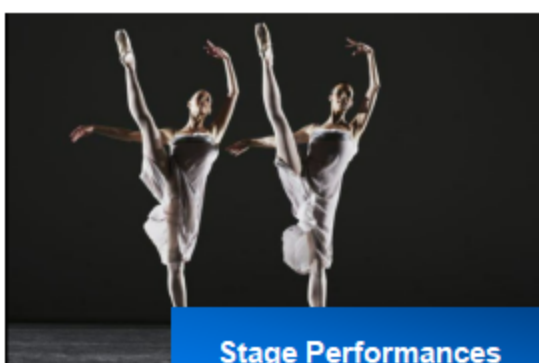
Professional eSports



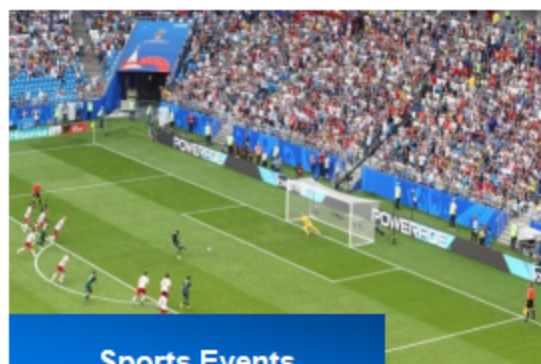
Large Churches



Broadcasting



Stage Performances



Sports Events



Academic Seminars

Connection Diagram

