KT-BC10KV(NDI Version: KT- BC10KVN)

4K60P 30X 12G-SDI Broadcast Grade PTZ Camera

| 4K60fps | 30x Optical Zoom | USB3.0+HDMI+LAN+SDI | 12G SDI×2 |

| FreeD | NDI®|HX3 | 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, FreeD, NDI®|HX3 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.
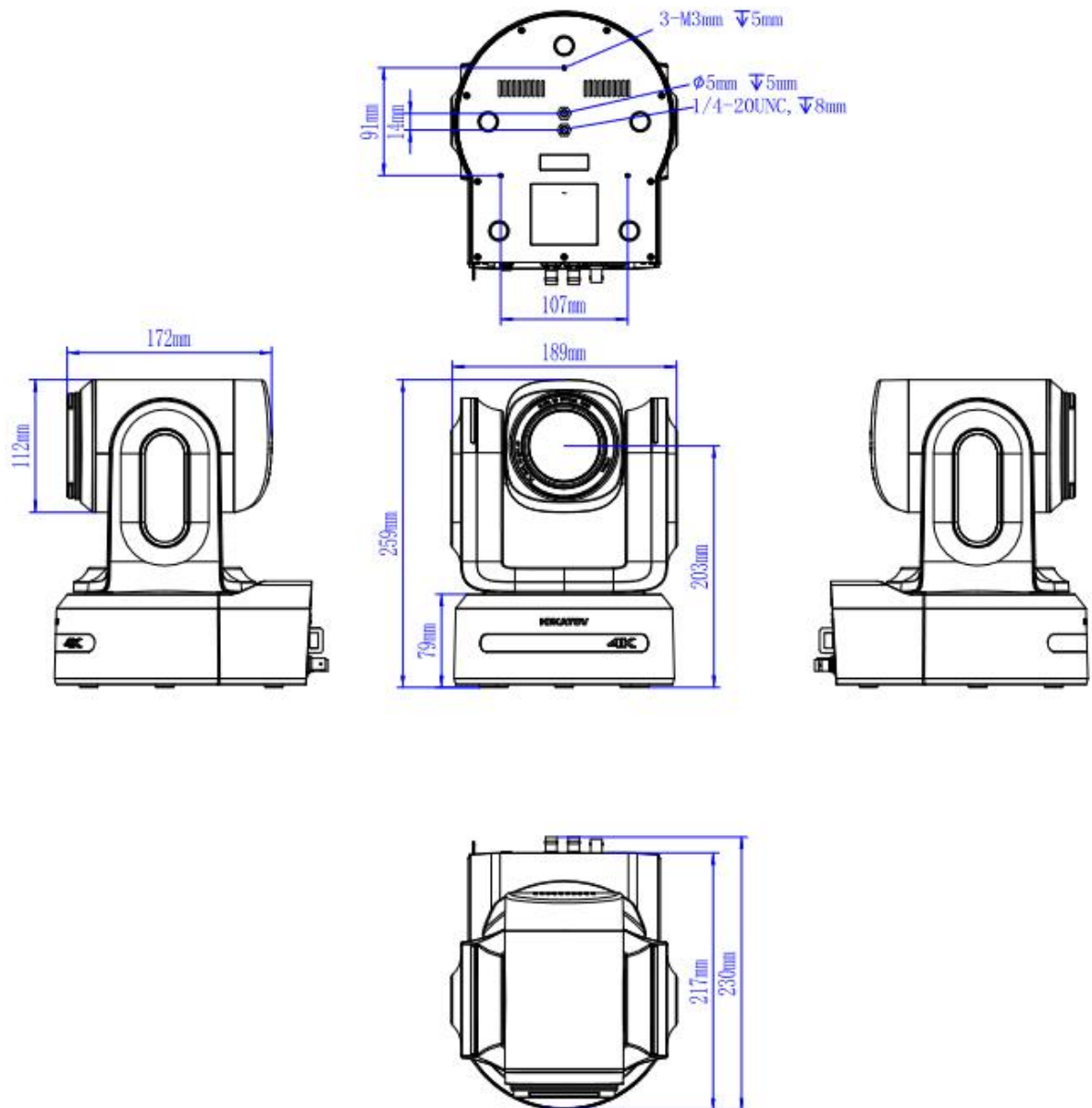
Specifications

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®|HX3（optional）, FreeD
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	

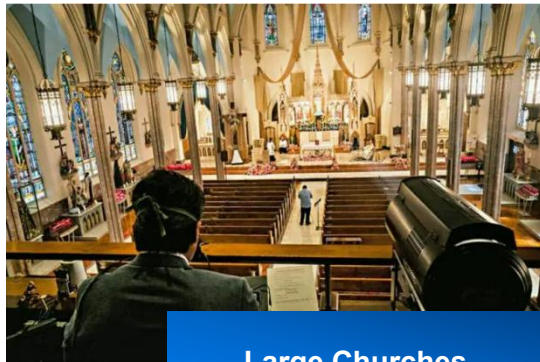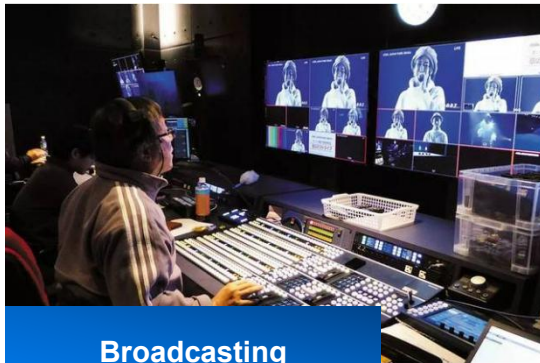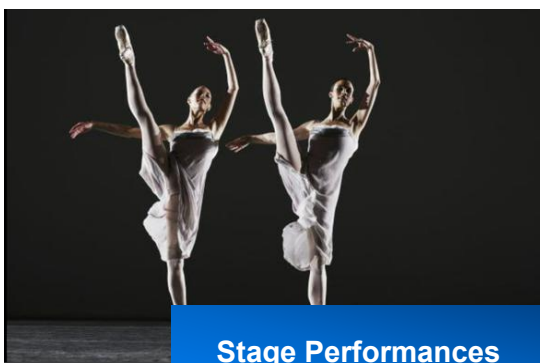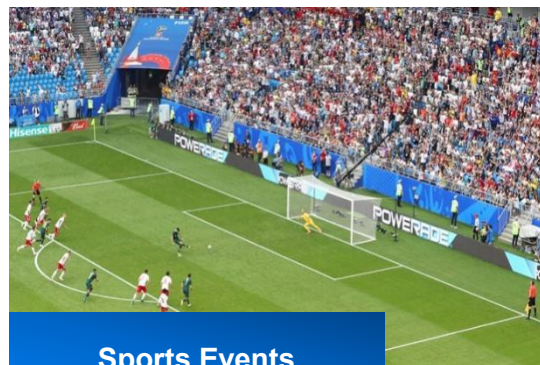| HDMI Interface	1 Line, HDMI：Version2.0
SDI Interface	1 Line, 3G-SDI
	2 Line, 12G-SDI
USB Interface	1 Line, USB3.0, Type-A Socket
	1 Line, UVC, Type-B Socket
Network Interface	1 Line, RJ45：1000M adaptive Ethernet port
Audio Interface	1 Line, Line In,3.5mm audio port
	2 Line, AUDIO INPUT, XLR audio port
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

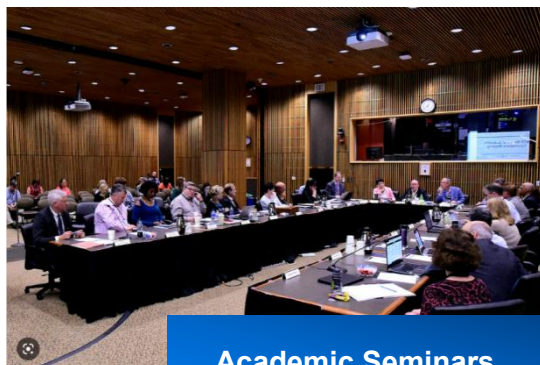# Application scenarios

Professional eSports

Large Churches

Broadcasting

Stage Performances

Sports Events

Academic Seminars

Connection Diagram