



## BG-VPTZN-HSU3

COMPACT PTZ 1080P FHD 10X/20X/30X CAMERA  
WITH NDI/HDMI/SDI/USB 3.0/POE

Introducing the BG-VPTZ-HSU3, a versatile COMPACT PTZ 1080P FHD camera with 10X/20X/30X zoom options, multiple output interfaces (HDMI, 3G-SDI, USB 3.0, IP streaming), and a compact design perfect for offices and classrooms. For enhanced audio/video over IP streaming, the BG-VPTZ-HSU3 supports NDI|HX2 with the BG-VPTZN-HSU3 model.

With the ability to capture 1080p@60Hz video, this camera delivers exceptional image quality and supports H.264/H.265 video compression and RTMP(S) for live streaming. Offering flexible control via RS-232, RS-485, LAN, or IR remote, it also boasts 255 preset positions. Additional features include Power over Ethernet (PoE), audio embedding, and a sturdy all-aluminum chassis, making it a top choice for high-quality video capture and streaming in various settings.

Network Device Interface (NDI) is a high performance AV over IP standard that allows anyone to use real time, ultra low latency video on existing IP video networks. The NDI open protocol enables professionals to share video through a local area network (LAN) with video-compatible devices.



## FEATURES



### BROADCAST QUALITY VIDEO

Fluid motion, clear image, and accurate colors



### LATEST STREAMING TECH

Supports H.264/H.265 video compression and RTMP(S) network protocol for Youtube/Facebook live streaming



### SIMULTANEOUS VIDEO OUTPUTS

3G-SDI / HDMI / USB3.0 / IP Streaming



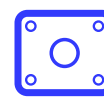
### POWER OVER ETHERNET

Delivers power directly over an ethernet cable from your PoE enabled network switch



### AUDIO EMBEDDING

Connect audio mixer output or powered mic and embed audio into your live stream



### FLEXIBLE INSTALLATION OPTIONS

Supports ceiling, wall, tripod, or desk mount installations





# TECH SPECIFICATIONS

## Camera Specs

|                  |                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------|
| Image Sensor     | 1/2.7" Exmor CMOS (10X), 1/2.8" Exmor CMOS (20X), 1/2.8" Exmor CMOS (30X)                                              |
| Frame Rate       | 1080p@60/ 59.94 / 50 /30 / 29.97 /25<br>1080i@60/59.94 / 50 / 30 / 29.97 / 25<br>720p@60/50/ 30 / 25, 480i@60, 576i@50 |
| Zoom             | Optical - 10X/20X/30X                                                                                                  |
| F-number         | 1.6(W)-3.5(T) (10X), 1.6(W)-3.5(T) (20X), 1.3(W)-4.8(T) (30X)                                                          |
| Focus            | f=5.1mm~51mm (10X), f=4.7mm~94.0mm (20X), f=5.2mm~148.4mm (30X)                                                        |
| Effective Pixels | 2.70 Megapixel (10X), 2.38 Megapixel (20X), 2.70 Megapixel (30X)                                                       |
| View Angle (H)   | 72° (10X), 65° (20X), 65.4° (30X)                                                                                      |
| Min Illumination | 0.5lux (F 1.8, AGG ON)                                                                                                 |
| Shutter Speed    | 1 to 1/10000s                                                                                                          |
| Image Adjustment | Vertical Flip & Mirror Supported                                                                                       |

## Input/Output Interface

|                         |                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------|
| Video Output            | HDMI, 3G-SDI, USB 3.0 (USB 2.0 backwards compatible port only), RJ45 Network (10/100M Adaptive Ethernet ports) |
| Audio Input             | 3.5mm audio interface, Line In                                                                                 |
| Communication interface | 1X RS232 IN, 1X RS232 Out, 1X RJ45, RS485                                                                      |
| Power Connection        | DC IN 12V, Power over Ethernet                                                                                 |

## Mechanical

|                   |                                                                 |
|-------------------|-----------------------------------------------------------------|
| Pan/Tilt Rotation | ±178°, Tilt Rotation Angle -30°~ +90°<br>Pan 90°/s; Tilt: 90°/s |
| Presets           | Max 255 Presets ( Remote 9 Presets)                             |
| Network Protocol  | VISCA, PELCO P/D, ONVIF Protocol, NDI HX2                       |

## IPC Video Features

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Video standard         | H.265/H.264/MJPEG                                                                    |
| Video Stream           | Main stream, Sub stream                                                              |
| Main stream resolution | 1920x1080, 1280x720                                                                  |
| Sub stream resolution  | 720x480, 320x240                                                                     |
| Bit Rate               | 128K, 256K, 384K, 512K, 768K, 1024K, 1536K, 2048K, 3072K, 4096K, 5120K, 6144K, 8192K |
| Bit Rate Type          | Variable rate, Fixed rate                                                            |
| Maximum Frame          | 60fps                                                                                |
| Audio encode standard  | G.711, G.722, G.722.1, G.728, G.722.1C AAC                                           |
| Audio stream rate      | 96K, 128K, 256K                                                                      |
| Supported protocols    | TCP/IP, RTSP, RTMP                                                                   |

## Limited Product Warranty Terms

**Pro Line:** 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

**Essential Line:** 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

**Cables:** Lifetime Limited Product Warranty.

For complete warranty information, please visit [bzbgear.com/warranty](https://www.bzbgear.com/warranty).  
For questions, please call 1.888.499.9906 or email [support@bzbgear.com](mailto:support@bzbgear.com).

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## Generic

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Dimensions (L*W*H)    | 4.7in x 4.7in x 5.7in / 120mm x 120mm x 145mm |
| Gross Weight          | 3.5 lbs [1.6kg]                               |
| Operating Temperature | 14°F ~ 122°F / -10°C ~ 50°C                   |
| Max Consumption       | 12W DC12V@1A                                  |
| Working Environment   | Indoor Only                                   |



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