

# PTZ OPTICS 12X USB



## PTZ OPTICS Video Conferencing Camera

The PTZ Optics 12X-USB is a 1080p camera with 12X optical zoom for capturing wide angles. With support for USB 3.0, HDMI & IP Streaming (H.264) this camera is ideal for broadcasting high definition video signals for broadcast or video conferencing applications.

### KEY FEATURES

- 72.5 degree wide-angle lens.
- Wide Dynamic Range
- High performance in low illumination situations.
- Full 1920x1080p HD Resolutions up to 30 frames per second.
- 2D and 3D noise reduction with our latest "low noise CMOS sensor".
- Conforms to UVC 1.0 & ONVIF IP Control Protocols
- RJ-45 H.264 Streaming port (Control Software is open source)
- HDMI, USB 3.0, IP Streaming (All Simultaneous)

### WHAT'S IN THE BOX

- 12X Zoom IP Camera
- Power Adapter
- IR Remote Control
- USB 3.0 Cable
- RS-232C to RS-485 Cable
- User Manual

#### Camera & Lens

Video CMOS Sensor	1/3" CMOS, 2.12 Mega Pixels
Frame Rate	1080p/30, 1080p/25, 720p/60, 720p/50, NTCS, PAL
Lens	12x, F3.5mm-42.3mm, F1.8-F2.8
Lens Zoom	12x, 16x Digital Zoom
Field of View	72.5°
Min Lux	0.5 Lux at F1.8, AGC ON
Shutter Speed	1/25s - 1/10000s
SNR	≥55dB
Vertical Flip & Mirror	Supported
Horizontal Angle of View	72.5° - 6.9°
Vertical Angle of View	34.1° - 1.89°

#### Pan & Tilt Movement

Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	245 Presets

#### Rear Board Connectors

Video Output Interface	USB 3.0, HDMI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	Power Adapter (DC IN 12V)
USB Interface	USB 3.0

#### Electrical Index

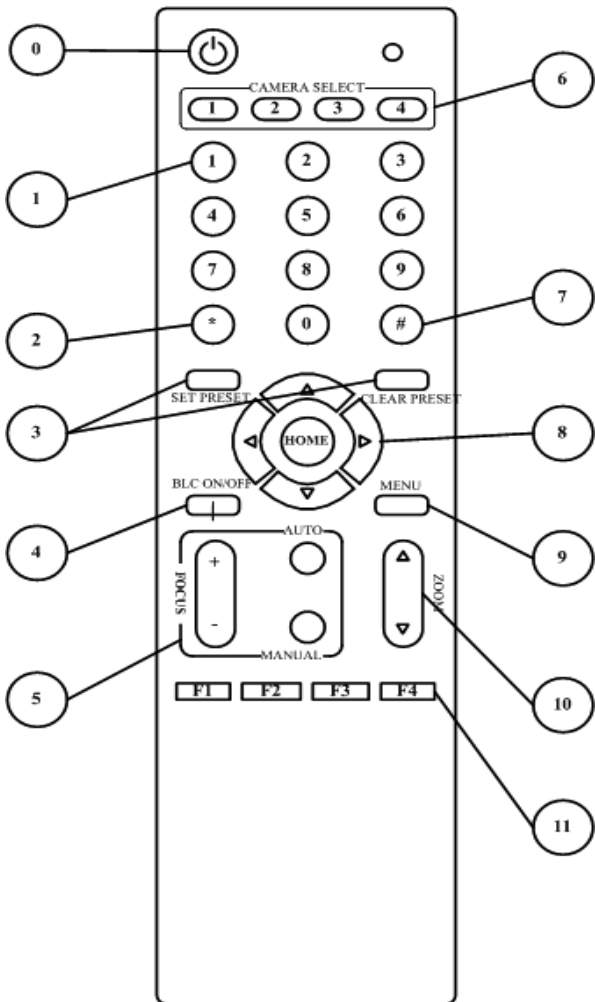
Power Supply	8W
Input Voltage	12V DC (10.8 - 13.0V DC)

#### Physical Specifications

Dimension inches	5"W x 6.5"H x 6.63"D (8.6" Height Extended)
Dimensions millimeters	127 W x 167 H x 168 D (204 Height Ext)
Box Dimensions	9"x9"x10"   228mmx254mmx228mm
Camera Weight	3.25 lbs. (1.47 kg)
Boxed Weight	5.4 lbs. (2.45 kg)



- 1. Audio LINE IN Interface
- 2. Audio LINE OUT Interface
- 3. System Select Switch
- 4. RS485 Jack
- 5. RS232 IN jack
- 6. RS232 OUT Jack
- 7. RJ45 Interface
- 8. HDMI Interface
- 9. USB 3.0 Interface
- 10. DC 12V Jack
- 11. Power Switch



**0. Standby Button**

Press this button to enter standby mode. Press it again to enter normal mode. (Note: Power consumption in standby mode is approximately half of the normal mode)

**1. Position Buttons**

To set preset or call preset

**2. \* Button**

**3. Set/Clear Preset Buttons**

**Set preset:** Store a preset position [SET PRESET] + Numeric button (0-9); Setting a corresponding numeric key preset position  
**Clear preset:** Erase a preset position [CLEAR PRESET] + Numeric button (0-9)  
 Or: [\*] + [#] + [CLEAR PRESET]: Erase all the preset individually.

**4. BLC (Backlight Compensation) Button**

**BLC ON/OFF:** Press this button to enable the backlight compensation. Press it again to disable the backlight compensation. (NOTE: Effective only in auto exposure mode) Note: If a light behind the subject, the subject will become dark. In this case, press the backlight ON / OFF button. To cancel this function, press the backlight ON / OFF button.

**5. Focus Buttons**

Used for focus adjustment. Press [AUTO] adjust the focuses on the center of the object automatically. To adjust the focus manually, press the [MANUAL] button, and adjust it with [Focus +] (Focus on far object) and [Focus -] (Focus on near object)

**6. Camera Select Buttons**

Press the button corresponding to the camera you want to operate with the remote controller.

**7. # Button**

**8. Pan/Tilt Control Buttons**

Press arrow buttons to perform panning and tilting. Press [HOME] button to face the camera back to front

**9. Menu Setting**

Menu button: Press this button to enter or exit the OSD menu

**10. Zoom Buttons**

Zoom : Zoom In  
 Zoom : Zoom Out

**11. Set Camera IR Address Buttons**

[\*] + [#] + [F1]: Address1  
 [\*] + [#] + [F2]: Address2  
 [\*] + [#] + [F3]: Address3  
 [\*] + [#] + [F4]: Address4