

PTZ OPTICS 12X USB



Model Number:
 PT12X-USB-GY (gray)
 PT12X-USB-WH (white)
<http://ptzoptics.com/12x-usb/>

PTZ OPTICS Video Conferencing Camera

The PTZ Optics 12X-USB is a 1080p camera with 12X optical zoom for capturing both wide angles and long shots. 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 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 USB 3.0 Camera
 Power Adapter + Cord
 IR Remote Control
 USB 3.0 Cable
 RS-232C 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	1/30s - 1/10000s
SNR	≥55dB
Vertical Flip & Mirror	Supported
Horizontal Angle of View	6.9° (tele) to 72.5° (wide)
Vertical Angle of View	3.9° (tele) to 44.8° (wide)
Working Environment	Indoor

Pan & Tilt Movement

Pan Movement	±170°
Tilt Rotation	Up: 90° Down: 30°
Presets	64 Presets (245 Presets via RS-232 & UVC)

Rear Board Connectors

Video Output Interface	USB 3.0, HDMI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In, 3.5mm (IP Stream Only)
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/9600 bits
Power Supply Interface	JEITA Type Power Adapter (DC IN 12V)
USB Interface	USB 3.0 *(requires quad core processor)

Electrical Index

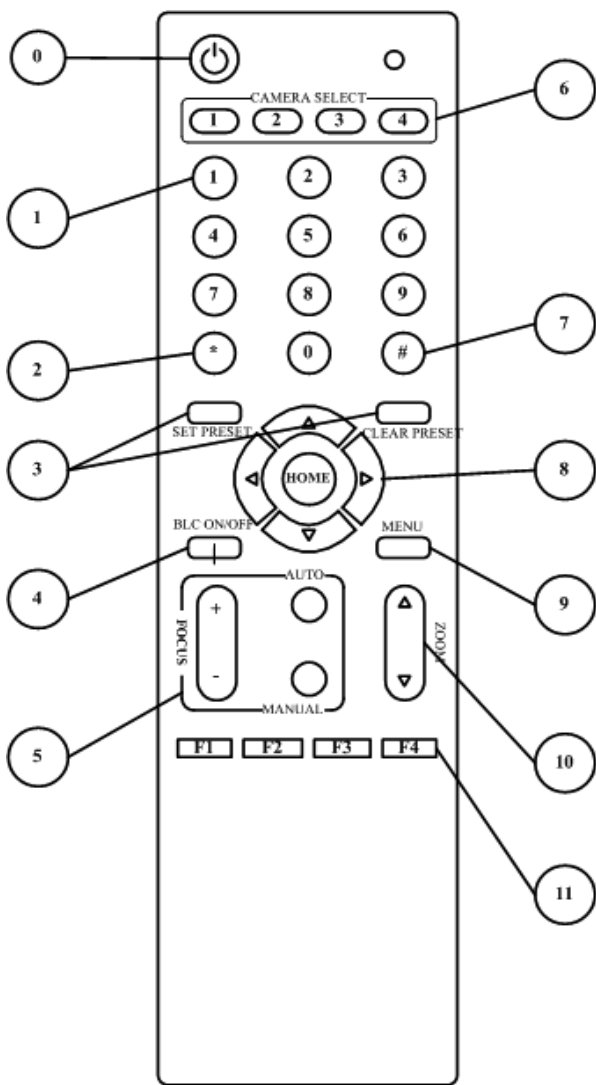
Power Supply	12W 24W(Max)
Input Voltage	12V DC (10.8 - 13.0V DC)

Physical Specifications

Dimension (in.)	5.56W x 6.88H x 5.88D (8" H w/ Tilt up)
Dimensions (mm)	142W x 175H x 150D (204H w/ Tilt up)
Box Dimensions	9"x9"x10" 229mmx254mmx229mm
Camera Weight	3.05 lbs. (1.38 kg)
Boxed Weight	5.4 lbs. (2.45 kg)



- 1. Audio LINE IN Interface
- 2. CVBS 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