

PTZ OPTICS 20X USB



PTZ OPTICS Video Conferencing Camera

The PTZ Optics 20X-USB is a 1080p camera with 20X optical zoom for capturing HD video at long distances. With support for USB, HDMI and IP Streaming (H.264) this camera is ideal for broadcasting high definition video signals for broadcast or video conferencing applications.

KEY FEATURES

- 60.7 degree wide-angle lens.
- 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

- 20X 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	20x, F4.42mm-88.5mm, F1.8-F2.8
Lens Zoom	20x, 16x Digital Zoom
Field of View	60.7°
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	60.7° - 3.36°
Vertical Angle of View	34.1° - 1.89°

Pan & Tilt Movement

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

Rear Board Connectors

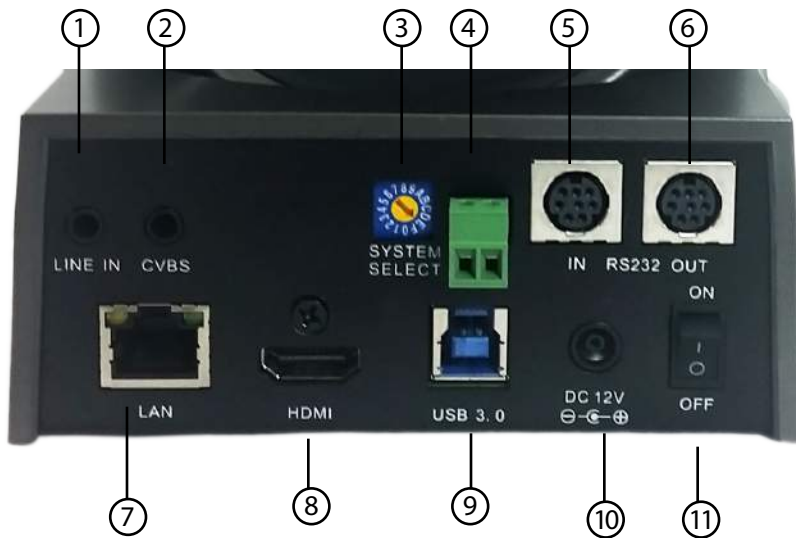
Video Output Interface	USB 3.0, HDMI, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	Power Adapter (DC IN 12V)
USB Interface	USB 2.0 (for firmware updates only)

Electrical Index

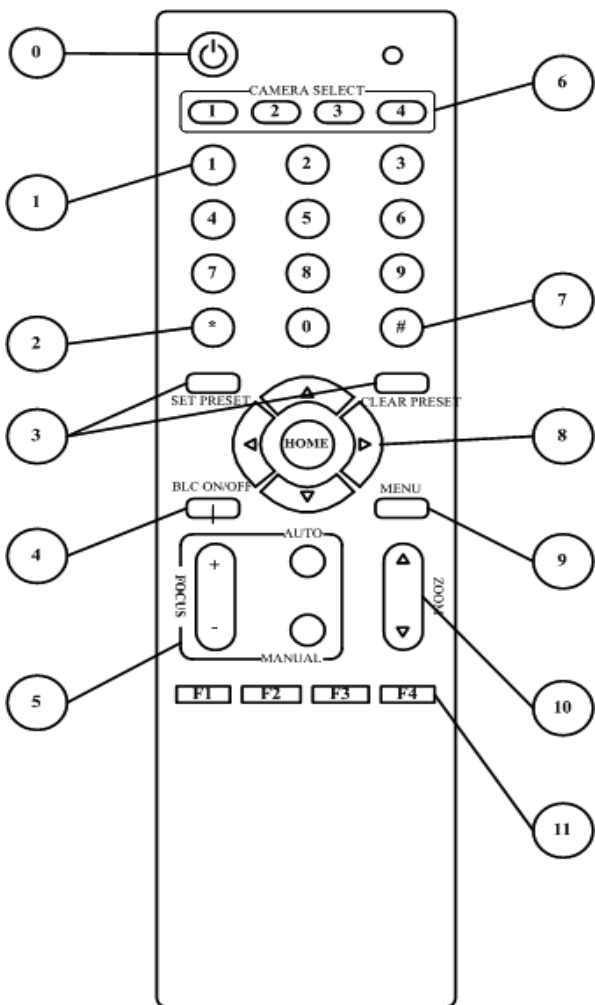
Power Supply	8W
Input Voltage	12V DC (10.8 - 13.0V DC)

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)



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



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

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