PTZOPTICS 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 Simultaneuos)

WHAT'S IN THE BOX

20X 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	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	3.36° (tele) to 60.7° (wide)
Vertical Angle of View	1.89° (tele) to 34.1°(wide)
Working Enviornment	Indoor

Pan & Tilt Movement

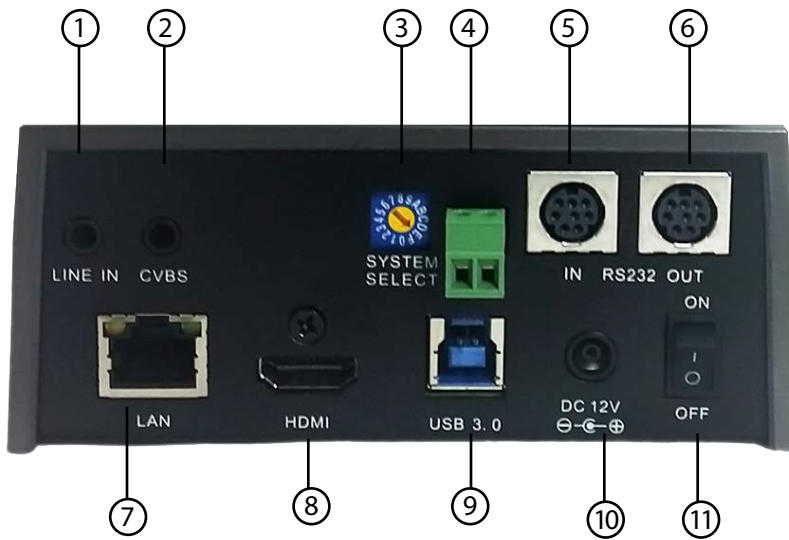|	
Pan Movement	±170°
Tilt Rotation	Up: 90°, Down: 30°
Presets	64 Presets (245 Presets via RS-232 & UVC)

Rear Board Connectors

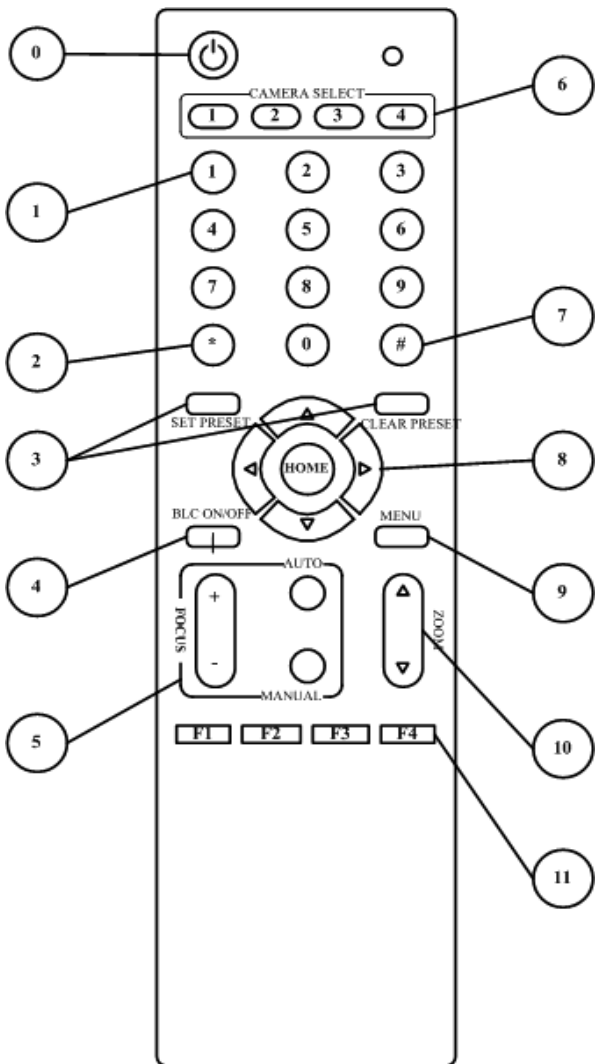|	
Video Output Interface	USB 3.0, HDMI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In, 3.5mm (IP Stream Only)
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/9600 bits
Power Supply Interface	JEITA Type Power Adapter (DC IN 12V)
USB Interface	USB 3.0

Electrical Index

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

Physical Specifications

Dimension (in.)	5.56W x 6.63H x 5.88D (7.25H w/ Tilt Up)
Dimensions milimeters	142W x 169H x 150D (185H w/ Tilt Up)
Box Dimensions	9"x9"x10"	228mmx254mmx228mm
Camera Weight	3.10 lbs. (1.41kg)
Boxed Weight	5.4 lbs. (2.45 kg)

1. Audio LINE IN Interface	7. RJ45 Interface
2. CVBS 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 positionClear preset: Erase a preset position[CLEAR PRESET]+ Numeric button (0-9) Or: [*]+[#]+[CLEAR PRESET]: Erase all the preset individually.

4. BLC (Backlight Compensation) ButtonBLC 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