

PTZ OPTICS Video Conferencing Camera



Model Number:
PT20X-SDI-GY (gray)
PT20X-SDI-WH (white)
<http://ptzoptics.com/20x-SDI/>

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

KEY FEATURES

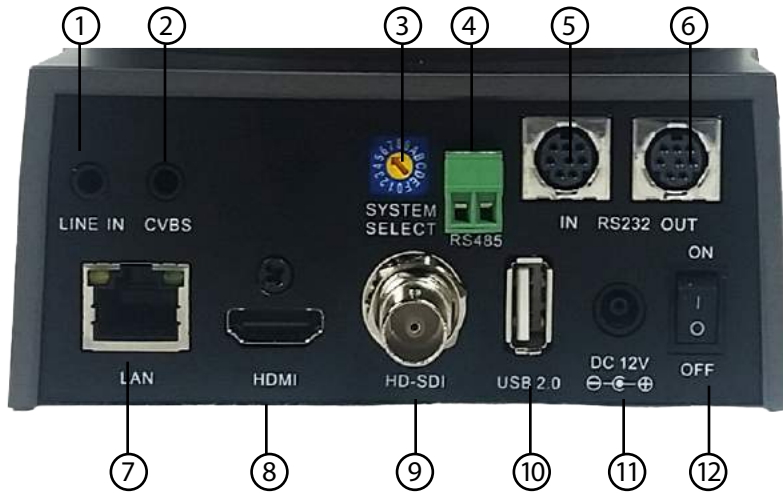
- 60.7 degree wide-angle lens.
- High performance in low illumination situations.
- Full 1920x1080p HD Resolutions up to 30 frames per second.
- 2D and 3D noise reduction with our latest “low noise CMOS sensor”.
- Conforms to ONVIF IP Streaming Standards
- RJ-45 H.264 Streaming port (Control Software is open source)
- HDMI, HD-SDI, IP Streaming (All Simultaneous)

WHAT'S IN THE BOX

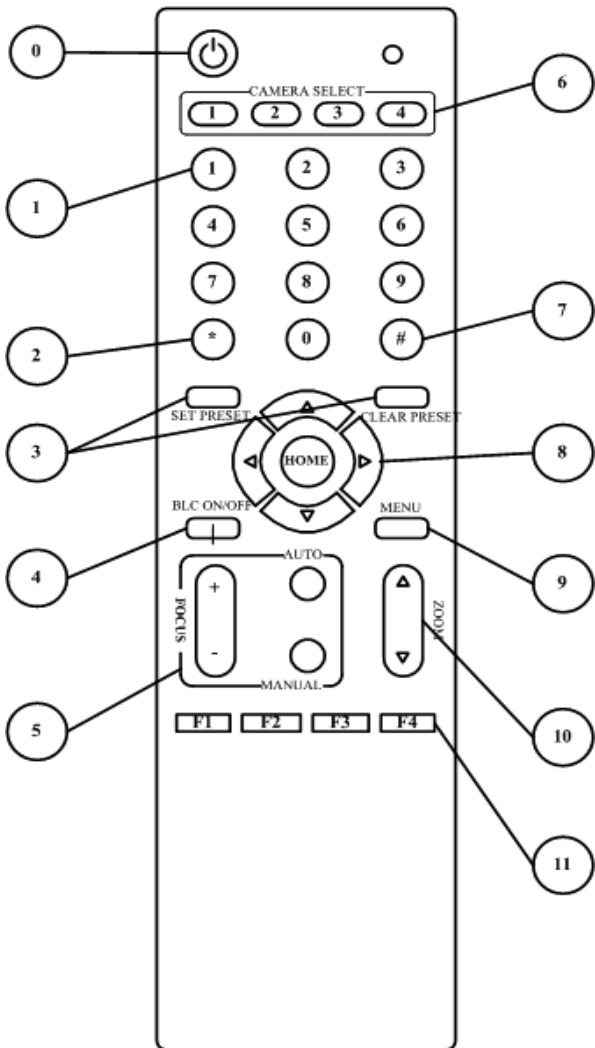
- 20X Zoom HD-SDI Camera
- Power Adapter + Cord
- IR Remote Control
- RS-232C Cable
- User Manual

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	1/30s - 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 Environment	Indoor
Pan & Tilt Movement	
Pan Movement	±170°
Tilt Rotation	Up: 90°, Down: 30°
Presets	64 Presets (245 Presets via RS-232)

Rear Board Connectors	
Video Output Interface	HDMI, HD-SDI, 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 2.0 (for firmware updates only)
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 (mm.)	142W x 169 H x 150 D (185H w/ Tilt Up)
Box Dimensions	9"x9"x10" 228mmx254mmx228mm
Camera Weight	3.10 lbs. (1.41 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. HD-SDI Interface
- 10. USB2.0
- 11. DC 12V Jack
- 12. 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