

# PTZ OPTICS 20X SDI



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

## PTZ OPTICS Video Conferencing Camera

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”.
- 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,<br>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

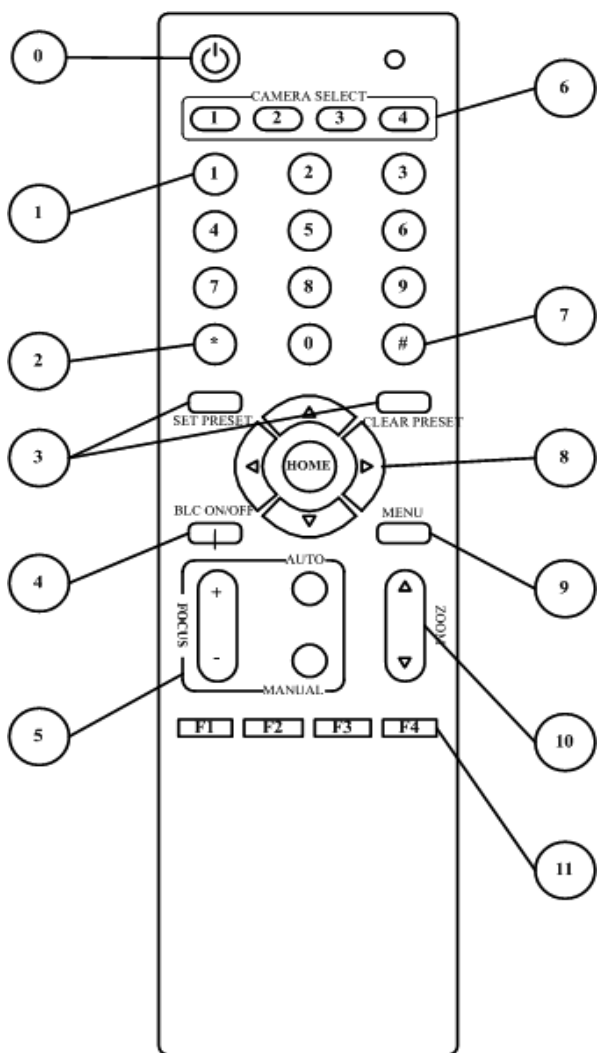
|               |                          |
|---------------|--------------------------|
| Power Supply  | 12W 24W(Max)             |
| Input Voltage | 12V DC (10.8 - 13.0V DC) |

#### 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