

20X SDI (GEN2)



Model Number: PT20X-SDI-GY-G2 (gray) PT20X-SDI-WH-G2 (white) http://ptzoptics.com/20x-sdi/

PTZ OPTICS Broadcast & Conference Camera

The PTZ Optics 20X-SDI is a 1080p camera with 20X optical zoom for capturing HD images at long distances. With support for 3G-SDI, HDMI, and IP Streaming (H.264, H.265 & MJPEG), this camera is ideal for broadcasting high definition video signals for broadcast, recording or video conferencing applications.

Rear Board

KEY FEATURES

Pan & Tilt Movement

Pan Movement Tilt Rotation

Presets

- 60.7 degree wide-angle lens.
- High performance in low illumination situations with Wide Dynamic Range.
- Full 1920x1080p HD Resolutions up to 60 frames per second.
- 2D and 3D noise reduction with our latest "low noise CMOS sensor".
- RS232 & RS485 (Serial) and IP (LAN/WAN) Control
- H.264, H.265 & MJPEG Streaming over RJ-45 LAN port
- HDMI, 3G-SDI, IP Streaming (All 3 Simultaneous)

Camera & Lens	
Video Sensor	1/2.7" CMOS, 2.12 Mega Pixels
Frame Rates	1080i/60 & 50, 1080p/60 & 50, 1080p/30 & 25, 720p/60, 50, 30 & 25
Lens	20x, F4.42mm-88.5mm, F1.8-F2.8
Lens Zoom	20x
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	3.36° (tele) to 60.7° (wide)
Vertical Angle of View	1.89° (tele) to 34.1°(wide)
Working Environment	Indoor

±170°

Up: 90°, Down: 30°

10 via IR (255 via Serial or IP)

HDMI, 3G-SDI, IP Streaming, CVBS
RJ45
Line In, 3.5mm (USB & IP Stream Only)
RS-232, RS485
2400/4800/9600 bits
JEITA type Power Adapter (DC IN 12V)
BNC – 75 Ohm, Female
Future Use
12W (Max)
12V DC (10.8 - 13.0V DC)

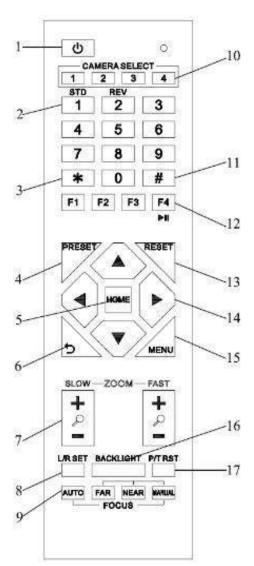
Physical	
Dimension (in.)	5.6W x 6.5H x 6.7D (7.8H max w/ Tilt)
Dimensions (mm)	142W x 164H x 169D (198H max w/ Tilt)
Box Dimensions	9"x9"x10" 229mmx254mmx229mm
Camera Weight	3.10 lbs. (1.41 kg)
Boxed Weight	5.4 lbs. (2.45 kg)

WHAT'S IN THE BOX 20X Zoom 3G-SDI Camera Power Adapter + Cord IR Remote Control RS-232C Cable User Manual

DATA SHEET

PTZ Optics Specifications & Diagrams





1. 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.

2. Position Buttons (0-9)

To set preset or call presets and for Special Shortcut Functions.

3. * (asterisk) Button

For use with multiple function buttons (see 12)

4&13. Set/Clear Preset Buttons

Set preset: Store a preset position [PRESET] + Numeric button (0-9): Setting a corresponding numeric key preset position. Clear preset: Erase a preset position [RESET] + Numeric button (0-9)

Note: [*] + [#] + [RESET]: Erase all presets.

5&14. Pan/Tilt & Home Control Buttons Press the arrow buttons to perform panning and tilting. Press the [HOME] button to face the camera back to its Home position.

6. Return Button

Press button to return to previous menu.

7. Zoom Buttons (Slow & Fast)

Zoom+: Zoom In (Slow and fast speeds) Zoom-: Zoom Out (Slow and fast speeds) 8. L/R Set Button

Set the left & right direction of panning control. Hold [L/R Set] + Press [1]: Normal panning direction. Hold [L/R Set] + Press [2]: Left and right panning direction will be reversed.

9. Focus Buttons

Used for focus adjustment. Press [AUTO] to adjust the focus on the center of the object automatically. To adjust the focus manually, press the [MANUAL] button, and then adjust focus with [Far] (focus on far object) and [Near] focus on near object).

10. Camera Address Select Buttons

Press the button corresponding to the camera which you want to operate with the IR remote controller.

11. # Button

For use with multiple function buttons (see 12)

12. Multiple Function Buttons

Function 1. Set camera IR address function: Press 3 keys consecutively to set the camera's IR address as follow:

- [*] + [#] + [F1]: IR Address 1
- [*] + [#] + [F2]: IR Address 2
- [*] + [#] + [F3]: IR Address 3
- [*] + [#] + [F4]: IR Address 4

Function 2. Image freezing function: Press [F4] to start the freeze function. The word "Freeze" displays on the upper left corner. After five seconds, the display disappears automatically (though the freeze feature continues). To cancel the freeze, press the [F4] key the word "Unfreeze" displays on the upper left corner. After five seconds, the display disappears automatically.

15. Menu Button

OSD Menu Settings: Press this button to enter or exit the OSD (on screen display) menu.

16. Backlight Button

Backlight (aka BLC) button: Press this button to enable backlight compensation. Press it again to disable backlight compensation. NOTE: Effective only in auto exposure mode. NOTE: If there is a light behind the subject, the subject will appear dark (i.e. silhouetted). In this case, press the backlight button to turn BLC On . To cancel this function, press the backlight button to turn BLC Off.

17. P/T RST Button

Press the button to self-calibrate the pan and tilt positions and limits.

Special Shortcut Functions

- [*] + [#] + [1]: Display OSD menu in English
- [*] + [#] + [3]: Display OSD menu in Chinese
- [*] + [#] + [4]: Show IP address
- [*] + [#] + [6]: Quickly restore default settings
- [*] + [#] + [8]: Show the camera FW version
- [*] + [#] + [9]: Quickly set mounting mode (vertical flip / normal)



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RRROPTICS®

Broadcast Quality Made Affordable

Product Line

PT12X SDI-GYG2 PT12X SDI-WHG2 1080p PT2 camera, 12X optical zoom, 3G-SDI, HDMI, IP Streaming PT12X-USB-GYG2 PT12X-USB-WHG2 1080p PT2 camera, 12X optical zoom, USB3.0, HDMI, IP Streaming PT12X-USB-GYG2 PT20X-SDI-WHG2 1080p PT2 camera, 20X optical zoom, 3G-SDI, HDMI, IP Streaming PT20X-USB-GYG2 PT20X-USB-WHG2 1080p PT2 camera, 20X optical zoom, USB3.0, HDMI, IP Streaming PT20X-USB-GYG2 PT20X-USB-WHG2 1080p PT2 camera, 20X optical zoom, 3G-SDI, IP Streaming PT20X-ZGAM-G2 PT20X-USB-WHG2 1080p Box Camera, 20X optical zoom, 3G-SDI, IP Streaming PT20X-ZGAM-G2 IP 10X-USB-WHG2 1080p Box Camera, 20X optical zoom, 3G-SDI, IP Streaming PT20X-ZGAM-G2 IP 10X-USB-WHG2 1080p Box Camera, 20X optical zoom, 3G-SDI, IP Streaming PT0-ZCAM-G2 IP 10X-USB-WHG2 1080p Box Camera, 20X optical zoom, 3G-SDI, IP Streaming PT0-T2 CAM-G2 IP 10X-USB-WHG2 1080p Box Camera, 20X optical zoom, 3G-SDI, IP Streaming IP 10X-ZGAM-G2 IP 1080p Box Camera, 10X optical zoom, 3G-SDI, IP Streaming IP 20X-USB-MHG2 IP 10Y IP 100 SG SDI Cable, BNC-MM, Henum, 4 lengths shown in ft. (xr=25, 50, 75, 100) IP 10Y IP 2011/UH SG SDI Cable, BNC-MM, Plenum, 4 lengths shown in ft. (xr=25, 50, 75, 100) IP 10Y	Troduot Elito	
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