20X USB (GEN2)

Broadcast Quality Made Affordable



Model Number:

PT20X-USB-GY-G2 (gray) PT20X-USB-WH-G2 (white) http://ptzoptics.com/usb/

PTZOPTICS

Broadcast & Conference Camera

The PTZOptics 20X-USB is a 1080p camera with 20X optical zoom for capturing HD images at long distances. With support for USB 3.0, 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.

KEY FEATURES

- 60.7 degree wide-angle lens.
- High performance in low light scenarios 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".
- UVC 1.5 (USB), RS232 & RS485 (Serial), and IP (LAN/WAN) control
- H.264, H.265, & MJPEG Streaming over RJ-45 LAN port
- HDMI, USB 3.0, & IP streaming (all 3 simultaneously)
- RTMP & RTSP IP streaming
- Photobooth capable

Presets

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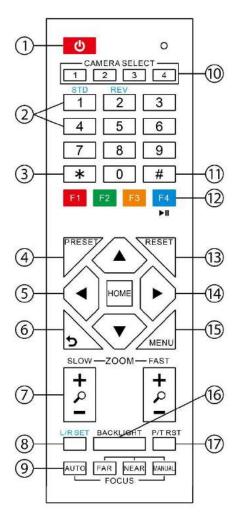
20X Zoom USB 3.0 Camera Power Adapter + Cord USB 3.0 Cable IR Remote Control RS-232C Cable User Manual

Camera & Lens				
Video Sensor	1/2.7" CMOS, 2.12 Mega Pixels			
Frame Rates	1080p-60/50/30/25, 1080i-60/50,			
	720p-60/50/30/25			
Frame Rates (CVBS)	576i-30, 480i-30			
Focal Length	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 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°			
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Rear Board Connectors				
Video Output	HDMI, USB 3.0, IP Streaming, CVBS			
Network Interface	RJ45			
Audio Interface	Line In, 3.5mm (USB & IP Stream Only)			
Communication	RS-232, RS-485, PELCO-D/P, UVC 1.5			
Baud Rate	2400/4800/9600 bits			
Power Supply	JEITA type Power Adapter (DC IN 12V)			
USB 3.0 Interface	USB 3.0 (Requires Quad Core Processor)			
USB 2.0 Interface	Future Use			
Electrical Index				
Power Supply	12W (Max)			
Input Voltage	12V DC (10.8 - 13.0V DC)			
Physical Specifications				
Dimension (in.)	5.6W x 6.5H x 6.3D (7.5H max w/ Tilt)			
Dimensions (mm)	142W x 164H x 160D (189H max w/ Tilt)			
Box Dimensions	9" x 9" x 10" 229mm x 254mm x 229mm			
Camera Weight	3.10 lbs. (1.41 kg)			
Boxed Weight	5.4 lbs. (2.45 kg)			

10 via IR (255 via Serial or IP)





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

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. 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)

[*] + [#] + [MANUAL]: Resets IP information

[#] + [*] + [4]: Toggles DHCP or Static IP configuration