

OPTICS

COMPLETE CAMERA
CATALOG

WWW.PTZOPTICS.COM



3

3 Year
Manufacturer

★ Warranty ★



PTZ Optics

POWER STANDBY

MILLERSVILLE
UNIVERSITY



CAMERA MODEL #

12X-SDI

12X-USB

20X-SDI

20X-USB

MSRP

\$1,599

\$1,699

\$1,699

\$1,799

OPTICAL ZOOM

12X

12X

20X

20X

FIELD OF VIEW

72.5°

72.5°

60.7°

60.7°

RESOLUTION

1080P @ 30FPS

1080P @ 30FPS

1080P @ 30FPS

1080P @ 30FPS

USB VIDEO

USB 2.0 UPDATES ONLY

USB 3.0 FOR VIDEO

USB 2.0 UPDATES ONLY

USB 3.0 FOR VIDEO

HDMI



HD-SDI



CVBS



IP STREAMING



RS-232 IN/OUT



64 PRESETS

.01° ACCURACY

.01° ACCURACY

.01° ACCURACY

.01° ACCURACY

AUDIO IN

✓ 3.5mm

✓ 3.5mm

✓ 3.5mm

✓ 3.5mm

MIN LUX

0.5 LUX

0.5 LUX

0.5 LUX

0.5 LUX

WIDE DYNAMIC RANGE



3D NOISE CANCELLATION



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



SUPER SPEED
CERTIFIED USB



dvi
digital visual interface



HD-SDI

PTZ optics

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PTZ OPTICS 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".
- 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 IP Camera
- Power Adapter
- IR Remote Control
- RS-232C to RS-485 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	60.7° - 3.36°
Vertical Angle of View	34.1° - 1.89°

Pan & Tilt Movement

Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	245 Presets

Rear Board Connectors

Video Output Interface	HDMI, HD-SDI, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	Power Adapter (DC IN 12V)
USB Interface	USB 2.0 (for firmware updates only)

Electrical Index

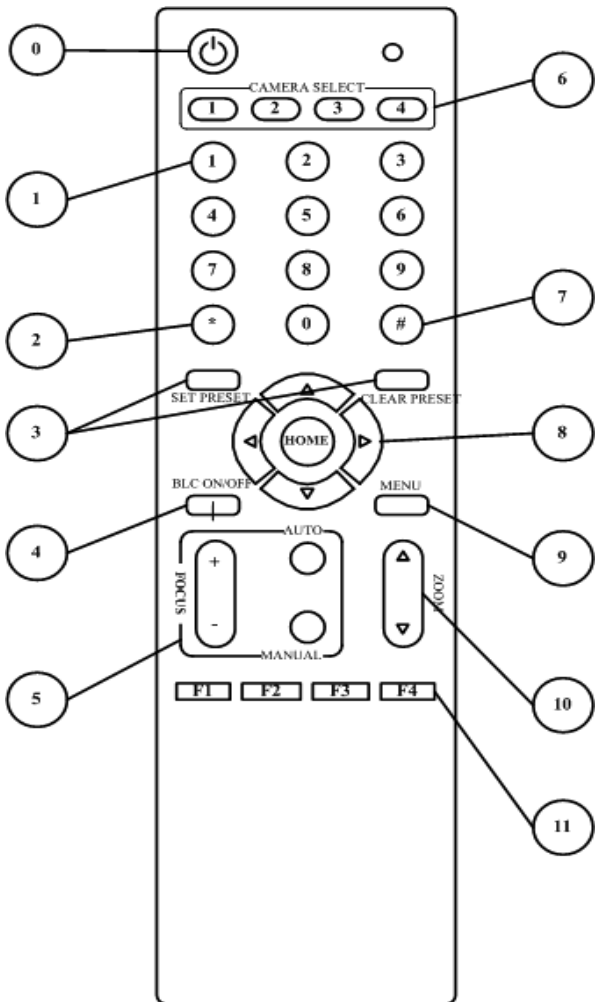
Power Supply	8W
Input Voltage	12V DC (10.8 - 13.0V DC)

Physical Specifications

Dimension inches	5"W x 6.5"H x 6.63"D (8.6" Height Extended)
Dimensions millimeters	127 W x 167 H x 168 D (204 Height Ext)
Box Dimensions	9"x9"x10" 228mmx254mmx228mm
Camera Weight	3.25 lbs. (1.47 kg)
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. HD-SDI Interface |
| 4. RS485 Jack | 10. USB2.0 |
| 5. RS232 IN jack | 11. DC 12V Jack |
| 6. RS232 OUT 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

PTZ OPTICS 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 Simultaneous)

WHAT'S IN THE BOX

- 20X Zoom IP Camera
- Power Adapter
- IR Remote Control
- USB 3.0 Cable
- RS-232C to RS-485 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	60.7° - 3.36°
Vertical Angle of View	34.1° - 1.89°

Pan & Tilt Movement

Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	245 Presets

Rear Board Connectors

Video Output Interface	USB 3.0, HDMI, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	Power Adapter (DC IN 12V)
USB Interface	USB 2.0 (for firmware updates only)

Electrical Index

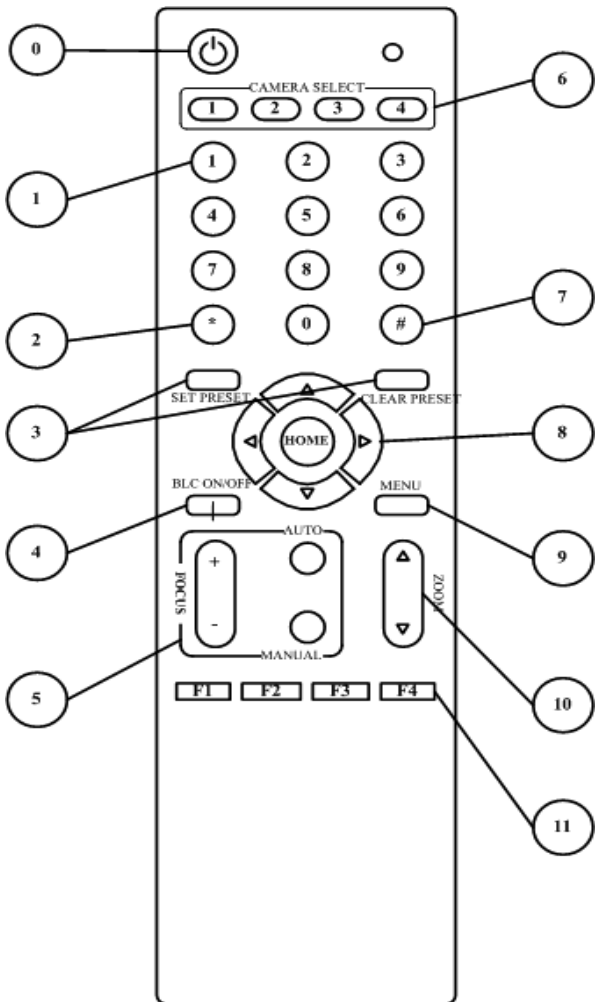
Power Supply	8W
Input Voltage	12V DC (10.8 - 13.0V DC)

Physical Specifications

Dimension inches	5"W x 6.5"H x 6.63"D (8.6" Height Extended)
Dimensions millimeters	127 W x 167 H x 168 D (204 Height Ext)
Box Dimensions	9"x9"x10" 228mmx254mmx228mm
Camera Weight	3.25 lbs. (1.47 kg)
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 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

PTZ OPTICS 12X USB



PTZ OPTICS Video Conferencing Camera

The PTZ Optics 12X-USB is a 1080p camera with 12X optical zoom for capturing wide angles. With support for USB 3.0, HDMI & IP Streaming (H.264) this camera is ideal for broadcasting high definition video signals for broadcast or video conferencing applications.

KEY FEATURES

- 72.5 degree wide-angle lens.
- Wide Dynamic Range
- 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 Simultaneous)

WHAT'S IN THE BOX

- 12X Zoom IP Camera
- Power Adapter
- IR Remote Control
- USB 3.0 Cable
- RS-232C to RS-485 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	12x, F3.5mm-42.3mm, F1.8-F2.8
Lens Zoom	12x, 16x Digital Zoom
Field of View	72.5°
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	72.5° - 6.9°
Vertical Angle of View	34.1° - 1.89°

Pan & Tilt Movement

Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	245 Presets

Rear Board Connectors

Video Output Interface	USB 3.0, HDMI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	Power Adapter (DC IN 12V)
USB Interface	USB 3.0

Electrical Index

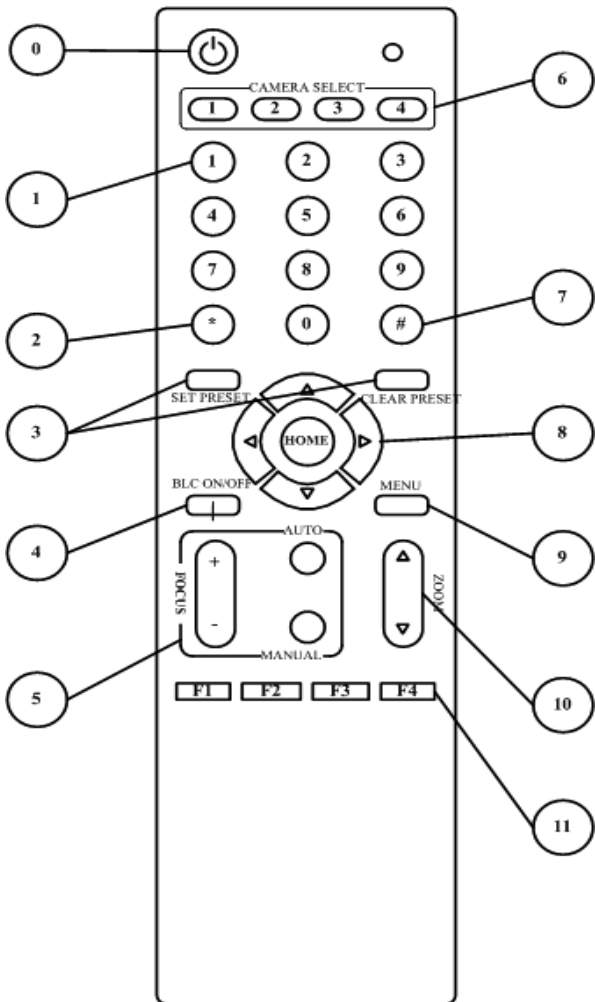
Power Supply	8W
Input Voltage	12V DC (10.8 - 13.0V DC)

Physical Specifications

Dimension inches	5"W x 6.5"H x 6.63"D (8.6" Height Extended)
Dimensions millimeters	127 W x 167 H x 168 D (204 Height Ext)
Box Dimensions	9"x9"x10" 228mmx254mmx228mm
Camera Weight	3.25 lbs. (1.47 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. USB 3.0 Interface
- 10. DC 12V Jack
- 11. 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

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
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PTZ OPTICS 12X SDI



PTZ OPTICS Video Conferencing Camera

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KEY FEATURES

- 72.5 degree wide-angle lens.
- Wide Dynamic Range
- 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

- 12X Zoom IP Camera
- Power Adapter
- IR Remote Control
- RS-232C to RS-485 Cable
- User Manual

Camera & Lens

Video CMOS Sensor	1/2.7" CMOS, 2.07 Mega Pixels
Frame Rate	1080p/30, 1080p/25, 720p/60, 720p/50, NTCS, PAL
Lens	12x, F3.5mm-42.3mm, F1.8-F2.8
Lens Zoom	12x, 16x Digital Zoom
Field of View	72.5°
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	72.5° - 6.9°
Vertical Angle of View	44.8° - 3.9°

Pan & Tilt Movement

Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	245 Presets

Rear Board Connectors

Video Output Interface	HDMI, HD-SDI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	JEITA type Power Adapter (DC IN 12V)
USB Interface	USB 2.0 (for firmware updates only)

Electrical Index

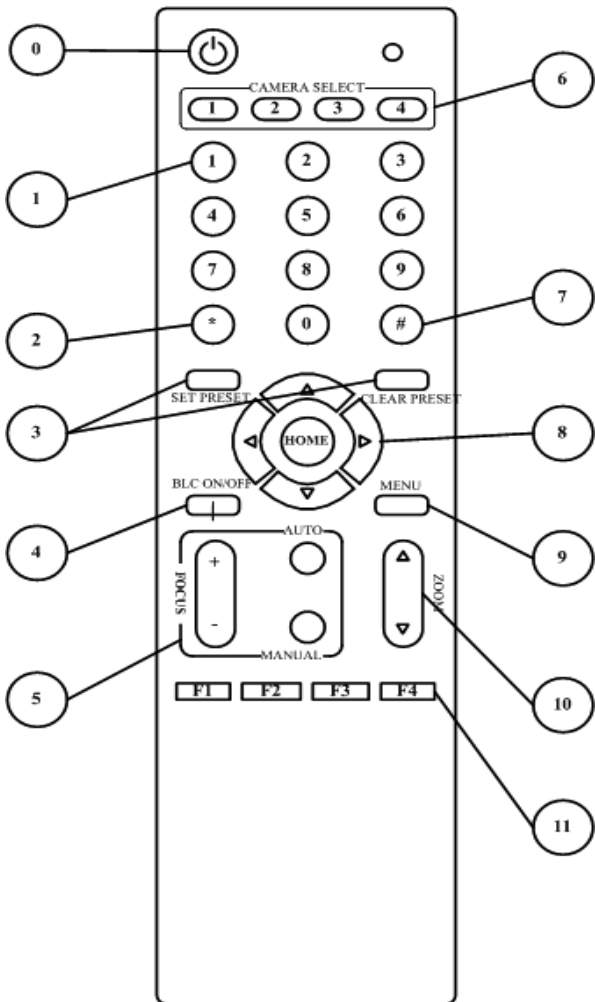
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Input Voltage	12V DC (10.8 - 13.0V DC)

Physical Specifications

Dimension inches	5"W x 6.5"H x 6.63"D (8.6" Height Extended)
Dimensions millimeters	127 W x 167 H x 168 D (204 Height Ext)
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- | | |
|----------------------------|---------------------|
| 1. Audio LINE IN Interface | 7. RJ45 Interface |
| 2. CVBS Interface | 8. HDMI Interface |
| 3. System Select Switch | 9. HD-SDI Interface |
| 4. RS485 Jack | 10. USB2.0 |
| 5. RS232 IN jack | 11. DC 12V Jack |
| 6. RS232 OUT Jack | 12. Power Switch |



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Clear preset: Erase a preset position [CLEAR PRESET] + Numeric button (0-9)
 Or: [*] + [#] + [CLEAR PRESET]: Erase all the preset individually.

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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

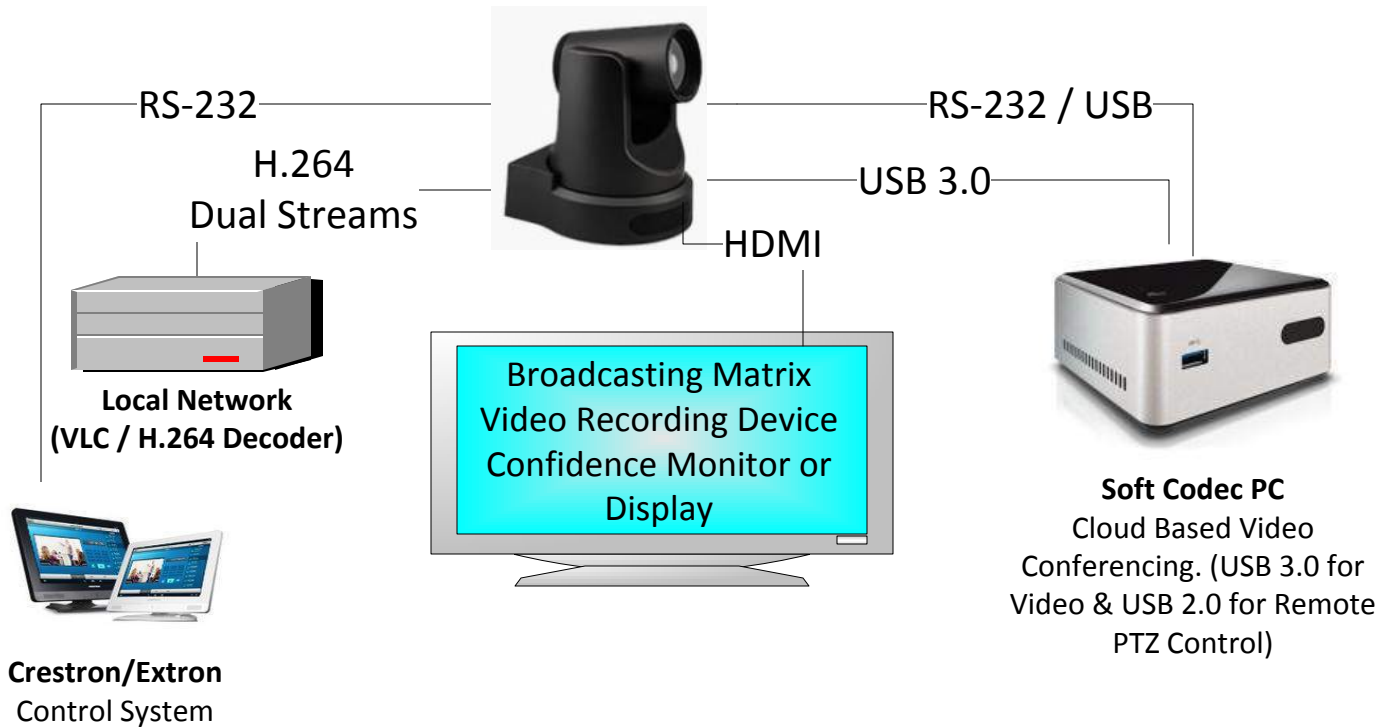
10. Zoom Buttons

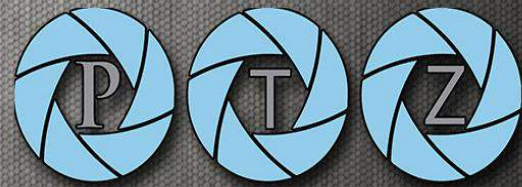
Zoom : Zoom In
 Zoom : Zoom Out

11. Set Camera IR Address Buttons

[*] + [#] + [F1]: Address1
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 [*] + [#] + [F3]: Address3
 [*] + [#] + [F4]: Address4

Simultaneous Streaming Applications





OPTICS

COMPLETE CAMERA
CATALOG

WWW.PTZOPTICS.COM

12X IP

12X USB

20X IP

20X USB



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PTZ Optics
Price List



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DEALER REQUEST



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Dealer

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