

OPTICS

COMPLETE CAMERA
CATALOG

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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



SUPERSPEED
CERTIFIED
USB



dvi
digital visual interface



HD-SDI



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PTZ OPTICS 12X USB

Model Number:PT12X-USB-GY



PTZ OPTICS Video Conferencing Camera

The PTZ Optics 12X-USB is a 1080p camera with 12X optical zoom for capturing both wide angles and long shots. 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 USB 3.0 Camera
- Power Adapter + Cord
- IR Remote Control
- USB 3.0 Cable
- 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 | 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 | 6.9° (tele) to 72.5° (wide) |
| Vertical Angle of View | 3.9° (tele) to 44.8° (wide) |
| Working Environment | Indoor |

Pan & Tilt Movement

| | |
|---------------|---|
| Pan Movement | ±170° |
| Tilt Rotation | Up: 90° Down: 30° |
| Presets | 64 Presets (245 Presets via RS-232 & UVC) |

Rear Board Connectors

| | |
|-------------------------|--------------------------------------|
| Video Output Interface | USB 3.0, HDMI, 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 3.0 |

Electrical Index

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

Physical Specifications

| | |
|-----------------|---|
| Dimension (in.) | 5.56W x 6.88H x 5.88D (8" H w/ Tilt up) |
| Dimensions (mm) | 142W x 175H x 150D (204H w/ Tilt up) |
| Box Dimensions | 9"x9"x10" 229mmx254mmx229mm |
| Camera Weight | 3.05 lbs. (1.38 kg) |
| Boxed Weight | 5.4 lbs. (2.45 kg) |

PTZ OPTICS 12X SDI

Model Number: PT12X-SDI-GY



PTZ OPTICS Video Conferencing Camera

The PTZ Optics 12X-SDI is a 1080p camera with 12X optical zoom for capturing both wide angles and long shots. With support for HD-SDI, HDMI, and IP Streaming (H.264) this camera is ideal for broadcasting high definition video signals for broadcast, recording 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 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 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 | 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 | 6.9° (tele) to 72.5° (wide) |
| Vertical Angle of View | 3.9° (tele) to 44.8° (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 6.88H x 5.88D (8" H w/ Tilt up) |
| Dimensions (mm) | 142W x 175H x 150D (204H w/ Tilt up) |
| Box Dimensions | 9"x9"x10" 229mmx254mmx229mm |
| Camera Weight | 3.05 lbs. (1.38 kg) |
| Boxed Weight | 5.4 lbs. (2.45 kg) |

PTZ OPTICS 20X USB

Model Number: PT20X-USB-GY

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 USB 3.0 Camera
- Power Adapter + Cord
- IR Remote Control
- USB 3.0 Cable
- 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 | 1/25s - 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 & UVC) |

Rear Board Connectors

| | |
|-------------------------|--------------------------------------|
| Video Output Interface | USB 3.0, HDMI, 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 3.0 |

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 millimeters | 142W x 169H x 150D (185H w/ Tilt Up) |
| Box Dimensions | 9" x 9" x 10" 228mm x 254mm x 228mm |
| Camera Weight | 3.10 lbs. (1.41kg) |
| Boxed Weight | 5.4 lbs. (2.45 kg) |

PTZ OPTICS 20X SDI

Model Number: PT20X-SDI-GY

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)

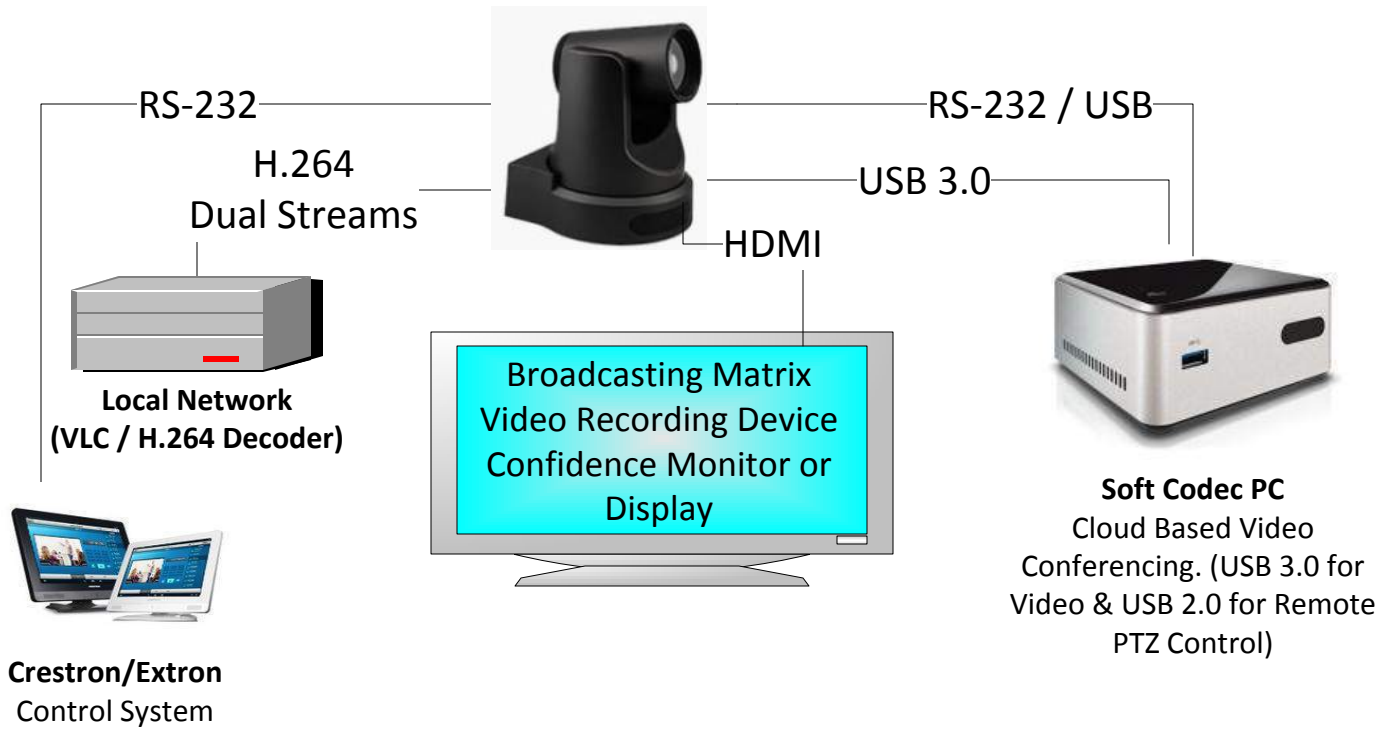
WHAT'S IN THE BOX

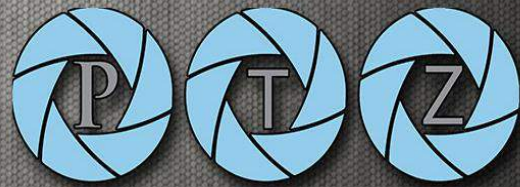
- 20X Zoom HD-SDI Camera
- Power Adapter + Cord
- IR Remote Control
- RS-232C Cable
- User Manual

| 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 | 1/25s - 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) |

Simultaneous Streaming Applications





OPTICS

COMPLETE CAMERA CATALOG

WWW.PTZOPTICS.COM

12X IP

12X USB

20X IP

20X USB



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