12X SDI (GEN2)



Model Number:

PT12X-SDI-GY-G2 (gray) PT12X-SDI-WH-G2 (white) http://ptzoptics.com/sdi/

PTZOPTICS

Broadcast & Conference Camera

The PTZOptics 12X-SDI is a 1080p camera with 12X optical zoom for capturing both wide angles and long shots. 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 broadcasting, recording, or video conferencing applications.

KEY FEATURES

- 72.5 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".
- 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 simultaneously)
- PoE (Power over Ethernet) or 12VDC
- RTMP & RTSP IP streaming
- Photobooth capable

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12X Zoom 3G-SDI Camera Power Adapter + Cord 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, 1080-60/50, 720p-60/50/30/25
Frame Rates (CVBS)	576i-30, 480i-30
Focal Length	12x, F3.5mm-42.3mm, F1.8-F2.8
Lens Zoom	12x
Field of View	72.5°
Min Lux	0.05 Lux (@F1.8, AGC ON)
Shutter Speed	1/30s - 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	10 via IR (255 via Serial or IP)

Rear Board	
Video Output	HDMI, 3G-SDI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In, 3.5mm (HDMI & IP Stream Only)
Communication	RS-232, RS-485, PELCO-D/P
Baud Rate	2400/4800/9600 bits
Power Supply	JEITA type Power Adapter (DC IN 12V)
3G-SDI Interface	BNC – 75 Ohm, Female
USB 2.0 Interface	Future Use
TH 4 ! 1 T 1	

Electrical Index	
Power Supply	12W (Max)
Input Voltage	12V DC (10.8 - 13.0V DC) or PoE 802.3af

Physical Specifications		
Dimension (in.)	5.6W x 6.5H x 6.7D (7.88H max w/ Tilt)	
Dimensions (mm)	142W x 164H x 169D (189H max w/ Tilt)	
Box Dimensions	9" x 9" x 10" 229mm x 254mm x 229mm	
Camera Weight	3.05 lbs. (1.38 kg)	
Boxed Weight	5.4 lbs. (2.45 kg)	

20X SDI (GEN2)





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

PTZOPTICS

Broadcast & Conference Camera

The PTZOptics 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 broadcasting, 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".
- 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 simultaneously)
- PoE (Power over Ethernet) or 12VDC
- RTMP & RTSP IP streaming
- Photobooth capable

WH	AT'S	IN	THE	BOX

20X Zoom 3G-SDI Camera Power Adapter + Cord 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	0.05 Lux (@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	10 via IR (255 via Serial or IP)

Rear Board Connectors		
Video Output	HDMI, 3G-SDI, IP Streaming, CVBS	
Network Interface	RJ45	
Audio Interface	Line In, 3.5mm (HDMI & IP Stream Only)	
Communication	RS-232, RS485, PELCO-D/P	
Baud Rate	2400/4800/9600 bits	
Power Supply	JEITA type Power Adapter (DC IN 12V)	
3G-SDI Interface	BNC – 75 Ohm, Female	
USB 2.0 Interface	Future Use	
Electrical Index		
Power Supply	12W (Max)	
Input Voltage	12V DC (10.8 - 13.0V DC) or PoE 802.3af	
Physical Specification	ns	
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" 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)	





Rear Board Connectors

Model Number: PT30X-SDI-GY-G2 (gray) PT30X-SDI-WH-G2 (white) http://ptzoptics.com/sdi/

PTZOPTICS

Broadcast & Conference Camera

The PTZOptics 30X-SDI is a 1080p camera with 30X 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 broadcasting, 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".
- RS232 & RS485 (Serial), and IP control
- H.264, H.265, & MJPEG streaming over RJ-45 LAN port
- HDMI, 3G-SDI, & IP streaming (all 3 simultaneously)
- PoE (Power over Ethernet) or 12VDC
- RTMP & RTSP IP streaming
- Photobooth capable

Presets

WHAT'S IN THE BOX

30X Zoom 3G-SDI Camera Power Adapter + Cord IR Remote Control RS-232C Cable User Manual

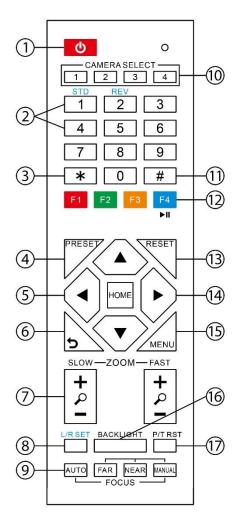
Camera & Lens	
Video Sensor	1/2.7" CMOS, 2.07 Mega Pixels
Frame Rates	1080p-60*/50/30/25, 1080i-60*/50,
	720p-60/50/30/25
Frame Rates (CVBS)	576i/30, 480i/30
Focal Length	F4.42mm-132.6mm, F1.8-F2.8
Lens Zoom	30x
Field of View	60.7°
Min Lux	0.05 Lux (@F1.8, AGC ON)
Shutter Speed	1/30s - 1/10000s
SNR	≥55dB
Vertical Flip & Mirror	Supported
Horizontal Angle of View	2.28° (tele) to 60.7° (wide)
Vertical Angle of View	1.28° (tele) to 34.1°(wide)
Working Environment	Indoor
Pan & Tilt Movement	
Pan Movement	±170°
Tilt Rotation	Up: 90°, Down: 30°

Video Output	HDMI, 3G-SDI, IP Streaming, CVBS
Network Interface	RJ45
Audio Interface	Line In, 3.5mm (HDMI & IP Stream Only)
Communication	RS-232, RS485, PELCO-D/P
Baud Rate	2400/4800/9600 bits
Power Supply	JEITA type Power Adapter (DC IN 12V)
3G-SDI Interface	BNC – 75 Ohm, Female
USB 2.0 Interface	Future Use
Electrical Index	
Power Supply	12W (Max)
Input Voltage	12V DC (10.8 - 13.0V DC) or PoE 802.3af
Physical Specification	ns .
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" 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)

^{*}Please note: The camera is unable to perform 1080@60 over IP Stream & SDI/HDMI simultaneously.

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)

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

[#] + [*] + [#] + [1]: Set IP to 192.168.100.81

[#] + [*] + [#] + [2]: Set IP to 192.168.100.82

[#] + [*] + [#] + [3]: Set IP to 192.168.100.83

[#] + [*] + [#] + [4]: Set IP to 192.168.100.84

[#] + [*] + [#] + [5]: Set IP to 192.168.100.85

[#] + [*] + [#] + [6]: Set IP to 192.168.100.86

[#] + [*] + [#] + [7]: Set IP to 192.168.100.87

[#] + [*] + [#] + [8]: Set IP to 192.168.100.88

[#] + [*] + [#] + [9]: Set IP to 192.168.100.89

[#] + [*] + [#] + [0]: Set IP to 192.168.100.80

>

Share Your Vision

PC Recommendation (Low end)

The MultiCamera Kit is designed around a core PC. The PC specs below will run any software you wish to utilize for video mixing, streaming, editing, and recording.

Please note that the MultiCamera Kit does not include the below computer.

KEY MINIMUM REQUIREMENTS

- Windows 8.1 or 10
- Intel Core i7 Processor 3Ghz+
- 8GB DDR4 RAM
- 256SSD (Solid State Drive)
- Two (2) available USB 3.0 ports for Magewell SDI to USB converters
- One (1) available USB 2.0 port for Shure Motiv
- Intel HD Graphics 4600 / 520 / 620
- 10/100/1000 Mbps Ethernet
- Thunderbolt 3/USB 3.1 via USB-C (required for upgrading to Producer+)



PC Recommendation Capabilities		
Camera Inputs	4 SDI cameras	
Streaming	Up to 1080p 20Mbps	
NDI	4 NDI sources up to HD 1080p	
Recording	Up to 1080p 75Mbps MP4	

PC Recommendation Specifications		
Motherboard	Asus Prime X570 Pro	
Graphics Card	NVIDIA GeForce GTX 1660	
Case	Corsair Case Series 100R Mid Tower	
SDD	Samsung 850 EVO 500GB	
PSU	500W ATX PSU	
Capture Card	Magewell Capture Card	
CPU	AMD Ryzen 5 3600X with Wraith Spire (6 cores / 12 threads 3.8 GHz)	
RAM	16GB (2x8GB) DDR4	
Operating System	Windows 10	

Share Your Vision

Model Number: 32070

Magewell SDI to USB Converter

The Magewell SDI to USB converter allows for SDI connections to the Intel NUC Skull Canyon. This low latency dongle allows for a reliable, full resolution and framerate conversion for use with a mixing software. Magewell devices offer superior compatibility to be paired with virtually any software.

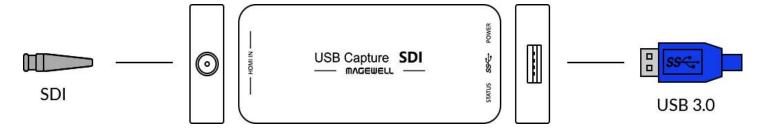
KEY FEATURES

- Supports input resolutions up to 2048x1080
- Support for SD/HD/3Ga/3Gb/3Ga-DL/3Gb-DS SDI standards
- Compatible with Windows, Mac OS X, & Linux
- Up or Down automatic scaling
- · Compatible with virtually any software
- Continuously work 24/7

WHAT'S IN THE BOX

Magewell SDI to USB Converter MCX to SDI cable USB 3.0 A-A cable





Product Specification	
Operating System (Tested)	Windows - 7/8.1/10 Mac - OS X 10.9.5/10.10/10.11.2 ~ 10.11.4 MacOS 10.12/10.13.2/10.13.3 Linux - Ubuntu/CentOS/Fedora/Red Hat
Supported Software	VLC, VirtualDub, OBS, xSplit, vMix, VidBlaster, Wirecast, Microsoft Media Encoder, Adobe Flash Media Encoder, Any other DirectShow, V4L2, QuickTime, AV Foundation based encoding or streaming software
Dimensions LxWxH	92.2mm x 40.2mm x 12.3mm

Connection Specification		
Video Capture Format	RGB24/32 4:4:4 8-bit	
	YUY2/UYVY 4:2:2 8-bit (Default is YUY2)	
Color Sampling	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2	
SDI Standards	SD/HD/3Ga/3Gb/3Ga-DL/3Gb-DS	
Power Consumption	5V max current: ~0.5 A	
	max power consumption: ~2.5W	
Host Interface	Backwards Compatible with USB 2.0	
	Compatible with USB 3.1 Gen 1	
HDMI Interface	DVI-D 1.0 HDMI 1.4a	
	Supports HDMI cable lengths up to 30M	

HuddleCamHD

Compatibility

- VISCA Protocol
- PELCO-D
- PELCO-P

What's in the box?

- Three-Axis Joystick
- RS232 cable
- DC12V Power Supply

LCD Display

Lens Control

Joystick

here

2.

Menu options are displayed

Focus+/-, Focus Lock/Unlock,

Three-axis joystick controller

Iris +/-, Auto Focus & Exposure

User Manual

Features

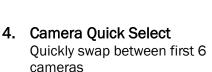
- Durable Metal Housing
- RS232, RS485, & RS422
- On Screen Display Menu control
- Variable Pan, Tilt, Zoom, & Focus speed control
- · Iris, Focus, & Preset control
- 6) Camera Quick Select keys
- 9) Quick Preset Set & Call keys

Model Number: HC-JOY-G3

Easy pan, tilt, & zoom control for any VISCA or PELCO protocol camera! Adjust pan, tilt, zoom, & focus speeds. Use 3-dimensional joystick with "twist" for zoom control







5. Preset & OSD Control Allows for preset, speed, & OSD control

- 6. Numeric Keys

 Numeric keys for presets,

 changing parameters, and more
- 7. DB9 Connection
 Allows for RS232 through DB9
 connections
- 8. Phoenix Connection
 Allows for RS422 or RS485
 wiring connections
- 9. Power Connection DC12V Power Connection

Key Technical Specifications		
Connections:	RS232, RS485, RS422	
Baud Rate:	1200-19200 bps	
Interfaces:	DB9: RS232; 5SCT: RS485/RS422	
Max Cameras:	Control up to 255 Cameras	
Max Presets:	Up to 255 Presets	
Max Distance:	3,937' (1200m) using 24 gauge	
	twisted pair	

Operation Specifications		
Power:	6W (12VDC Voltage)	
Working Temp:	14° ~ 122°F (-10° ~ +50°C)	
Working Humidity:	10 ~ 90% (non-condensation)	
Weight:	3.4 lbs 1.6 kg	
Dimensions (in.):	12.6W x 4.3H x 7.1D	
Dimensions (mm.):	320W x 109H x 180D	
	•	

Share Your Vision





Model Number: MVI-LTG

Shure Motiv MVI-LTG

The Shure Motiv MVI-LTG converts any standard XLR or 1/4" plug into a USB source to be used with a computer. This allows for audio from a mixing board to be embedded into the Intel Skull Canyon for use with a mixing software.

KEY FEATURES

- Converts XLR or 1/4" plug to USB 2.0
- Toggle mute from microphone/mixing board
- Supplies 12-48v phantom power (12v-iOS/48v-USB)
- Five (5) DSP Preset Modes (Speech, Singing, Flat, Acoustic Instrument, Loud)
- Durable all metal housing

WHAT'S IN THE BOX

Shure Motiv MVI-LTG Micro USB 2.0 cable Lightning to micro USB 2.0 cable

Product Specification	
MFi Certified	Yes
DSP Modes (Presets)	Speech/Singing/Acoustic/Loud/Flat
Input	Combination XLR and 1/4" (6.35mm) TRS
Input Impedance	3-pin XLR: > 2 k Ω 1/4" TRS: > 1 M Ω
Bit Depth	16-bit/24-bit
Sampling Rate	44.1/48 kHz
Frequency Response	20 Hz to 20,000 Hz
Adjustable Gain Range	3-pin XLR: 0 dBV 1/4" TRS: +9 dBV
Maximum Input Level	3-pin XLR: 0 dBV 1/4" TRS: +9 dBV
Headphone Output	3.5mm (1/8")
Power Requirements	Powered through USB or Lightning connector
Phantom Power	USB: +48 VDC iOS: +12 VDC
Input Mute	Yes
Housing	All-metal construction
Net Weight	310.0g (10.93 oz.)
Dimensions	42 x 84 x 72mm (H x W x D)
Cable	Includes 1) micro-b to USB cable and 1) micro-b to lightning cable