Share Your Vision

PTZOptics

NDI[®] [HX using NDI[®] 4 Broadcast & Streaming Camera

The PTZOptics 12X-NDI is a 1080p camera with 12X optical zoom for capturing both wide angles and long shots. With support for NDI[®]|HX, 3G-SDI, HDMI, and IP streaming (H.264, H.265, & MJPEG), this camera is ideal for broadcasting high definition video signals for broadcast, recording, video conferencing, or live streaming applications.

Key Features

- 72.5° wide-angle lens
- 1920x1080p Full HD Resolutions up to 60 frames per second
- High performance in low light scenarios with Wide Dynamic Range
- 2D and 3D noise reduction with our latest "low noise CMOS sensor" .
- Simultaneous HDMI, 3G-SDI, & NDI® HX using NDI® 4 / IP streaming
- H.264, H.265, or MJPEG compression when IP streaming •
- Support for NDI® Discover Server .
- Photobooth capable
- Custumizable Presets PTZ Motion Sync or Image Freeze .
- PTZOptics VISCA (RS232 / RS485), PTZOptics VISCA over IP (TCP/IP / UDP), & NDI® 4 control •
- PoE (Power over Ethernet) or 12V DC power supply

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What's in the Box

12X Zoom NDI|HX Camera Power Adapter + Cord **IR Remote Control** RS-232C Cable Quick Start Guide (2) AAA Batteries

Model Number:

PT12X-NDI-GY (Gray) PT12X-NDI-WH (White)

http://ptzoptics.com/ndi/



Camera & Lens

Video Sensor Frame Rates (HD)

Frame Rates (SD) Focal Length Min Lux Shutter Speed SNR Horizontal Field of View Vertical Field of View

1/2.7" CMOS, 2.12 Mega Pixel 1080p-60/50/30/25/59.94*/29.97* 1080i-60/50/59.94* 720p-120**/60/50/30/25/59.94* 576i-30 480i-30 12X, F3.5mm-42.3mm, F1.8-F2.8 0.05 Lux (@F1.8, AGC ON) 1/30s - 1/10000s ≥55dB 6.9° (tele) ~ 72.5° (wide) 3.9° (tele) ~ 44.8° (wide) *Broadcast framerates are considered BETA and may not work on all platforms

720p-120 is only available over NDI|HX / IP streaming **Pan & Tilt Movement

Pan Rotation Tilt Movement Presets

+170Up: 90°, Down 30° 10 via IR (255 via Serial or IP)

Camera Connection

Video Outputs Audio Interface Network Interface HDMI Interface SDI Interface Control Interfaces Power Supply Interface

NDI®|HX, HDMI, , 3G-SDI, IP, CVBS, VISCA Line in, 3.5mm (Unbalanced Stereo) RJ45 10/100/1000 Ethernet port HDMI ver. 1.3 **BNC Female** RS-232, RS-485, Pelco-D/P, IR, NDIv4 JEITA type Power Adapter

Power Specifications

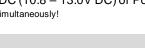
Power Supply 12W (Max) Input Voltage 12V DC (10.8 - 13.0V DC) or PoE 802.3af* *Do not power over DC & PoE simultaneously!

Physical Specifications

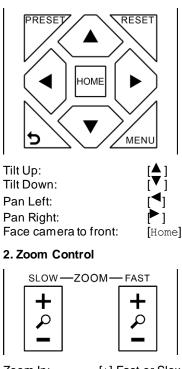
Dimensions W x D x H Dimensions W x D x H Camera Weight

5.6" x 7.88" x 6.5" 142mm x 169mm x 164mm 3.2 lbs (1.45 kg)





1. Pan & Tilt Control



Zoom In: [+] Fast or Slow Zoom Out: [-] Fast or Slow

3. Focus Control

AUTO	FAR	NEAR	MANUAL
	- FO	cus —	

Auto Focus Mode:	[Auto]
Manual Focus Mode:	[Manual]
Focus Far:	[Far]
Focus Near:	[Near]

4. Backlight, L/R Set, & P/T RST Controls



Reverse Pan Control:[L/R Set] + [1]Standard Pan Control:[L/R Set] + [2]Backlight Compensation:[Backlight]Self-Calibrate Test:[P/T RST]

5. Presets – Setting, Calling, and Clearing



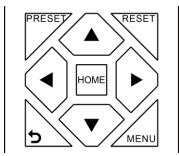
Set Preset:	[Preset] > [0-9]
Call Preset:	[0-9]
Clear Preset:	[Reset] > [0-9]
Clear All Presets:	[*]>[#]>[Reset]

6. Image Freeze



Toggle Image Freeze [►II]

7. On Screen Display Menu



Open / Close OSD:	[Menu]
OSD Up:	[▲]
OSD Down:	[♥]
OSD Left:	[◀]
OSD Right:	۲
OSD Enter:	[Home]
OSD Back:	[ک]

8. Change Camera IR Address



9. Camera Select



IR Address 1:	[Cam	Select	1]
IR Address 2:	[Cam	Select	2
IR Address 3:	[Cam	Select	3
IR Address 4:	[Cam	Select	4]

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10. Standby Control



11. Camera Shortcuts

[*] > [#] > [1]: Display OSD menu in English

[*] > [#] > [3]: Display OSD menu in Chinese

[*] > [#] > [4]: Show IP address

[*] > [#] > [6]: Quickly restore the default settings

[*] > [#] > [8]: Show the camera version

[*] > [#] > [9]: Quickly set mount mode (flip/normal)

[*] > [#] > [Manual]: Resets IP information to default

[*] > [#] > [4]: Enable Dynamic IP address

 $[{\rm L/R}~{\rm Set}]$ + [1] (STD): Normal Pan controls

 $[{\rm L/R}~{\rm Set}]$ + [2] (REV): Reverses Pan controls

[#] > [*] > [#] > [1]: Sets IP address to 192.168.100.81

[#] > [*] > [#] > [2]: Sets IP address to 192.168.100.82

[#] > [*] > [#] > [3]: Sets IP address to 192.168.100.83

[#] > [*] > [#] > [4]: Sets IP address to 192.168.100.84

[#] > [*] > [#] > [5]: Sets IP address to 192.168.100.85

[#] > [*] > [#] > [6]: Sets IP address to 192.168.100.86

[#] > [*] > [#] > [7]: Sets IP address to 192.168.100.87

[#] > [*] > [#] > [8]: Sets IP address to 192.168.100.88

[#] > [*] > [#] > [9]: Sets IP address to 192.168.100.89

[#] > [*] > [#] > [0]: Sets IP address to 192.168.100.80