

# Full HD NDI®|HX2 Broadcast PTZ Camera

# PTZ-NDI-X20

## Capturing The Unreachable with NDI®

The PTZ-NDI-X20 is AIDA's first camera to utilize NDI®|HX2 technology. The camera features Newteks NDI®|HX2 to help ease production with seamless video transfer over almost any existing network infrastructure. With integrated RS232 and VISCA over IP camera control, this camera is compatible with most IP based controllers, simplifying existing workflows with better cable management. The camera features traditional multi video format outputs such as 3G-SDI, HDMI, USB 3.0, as well as on-line video outputs RTSP/RTMP. Our camera's cost effective approach makes professional grade PTZ cameras, at the fraction of the price.

NDI®|HX2, NewTek's innovative Network Device Interface technology, is a royalty free standard enabling IP video workflows across Ethernet networks. NDI®|HX2 is a bi-directional standard that allows video systems to identify and communicate with one another over IP, and to encode, transmit, and receive multiple streams of broadcast-quality, low latency, frame-accurate video and audio in real time. The NDI®|HX2 encoding algorithm is resolution and frame rate independent, supporting up to 4K and beyond, as well as multi-channel, floating-point audio up to 16 channels and beyond. NDI®|HX2 also includes tools to implement video access and grouping, bi-directional meta-data, tally, and more.



### KEY FEATURES:



### APPLICATIONS:



LIVE PRODUCTION

WORSHIP

VIDEO CONFERENCE

EDUCATION

THEATER

## MAIN FEATURES

- NDI|HX2 streaming capable for low latency video streaming and PTZ control over NDI|HX2 Protocol.
- Full HD Progressive Scan sensor captures sharp and vivid color under different light conditions.
- Advanced digital image processor provides vivid and detailed images with full access feature sets.
- Motion-compensated temporal noise reduction filter leads to effective noise reduction for motion video without blur.
- 3G/HD-SDI, HDMI, RJ-45, USB 3.0, and USB 2.0 for versatility and seamless video performance.
- Power Optical Zoom capability up to 20X.
- Compatible with other industry leading products, conforming with SMPTE 424M/292M standard.
- Auto White Balance and shutter speed provides the optimized performance in a variety of situations.
- Built-in OSD controls for customizable image settings.
- Versatile and compact.

## SPECIFICATIONS

<b>VIDEO</b>		<b>LENS</b>	
<b>Image Sensor</b>	1/2.85" Progressive CMOS	<b>Lens</b>	20X HD Optical Zoom, F1.5 ~ F3.0
<b>Effective Pixels</b>	Horizontal: 1920, Vertical: 1080	<b>PTZ</b>	
<b>Pixel Size</b>	2.13 μm (H) x 2.13 μm (V)	<b>Pan/Tilt Range</b>	Pan: 340°, Tilt: +90 to -30°
<b>Resolution</b>	1080p & 1080i: 1920 x 1080	<b>Pan/Tilt Speed</b>	Pan: 0° to +120°/s, Tilt: 0° to +80°/s
<b>Resolution Rate</b>	1080 60p/59.94p/50p/30p/29.97p/25p 24p/23.98p	<b>Presets</b>	128 Positions
	1080 60i/59.94i/50i	<b>Field of View</b>	61°
	720 60p/59.94p/50p/30p/29.97p/25p	<b>STANDARD</b>	
<b>IP Rate</b>	1920 x 1080 @ 1~60	<b>SMPTE</b>	SMPTE 292M, SMPTE 424M
	1280 x 720 @ 1~60	<b>IP Protocol</b>	TCP/IP, RTSP/RTMP
	1024 x 576 @ 1~60	<b>PHYSICAL</b>	
	620 x 360 @ 1~60	<b>Camera Control</b>	Protocol: VISCA
<b>Output</b>	HD-SDI/3G-SDI		Interface: RS-232C IN & OUT, RJ-45
	HDMI		Remote Controller
	RTSP / RTMP / NDI HX2	<b>Operation Temp</b>	32°F - 104°F
	USB 3.0 & 2.0	<b>Dimension</b>	155mm x 160mm x 170mm / 6.10" x 6.92" x 6.69"
<b>Color Space</b>	4:2:2 (YCbCr) 10bit	<b>Weight</b>	1.35kg / 2.97lbs
<b>Min. Illumination</b>	0.1Lux	<b>Power</b>	12VDC (+9 - +15VDC) PoE+
<b>FUNCTION</b>			
<b>White Balance</b>	Auto, Manual, Auto Tracking, One Push, Indoor, Outdoor		
<b>Focus</b>	Auto, Manual		
<b>Shutter Speed</b>	1 to 1/10,000 Sec.		

\*Specification are subject to change without notice.

## PACKAGE CONTENTS



Remote Controller



Camera Mounting Bracket



USB 3.0



Power Adapter & Cable

At **AIDA Imaging**, innovation is key to crafting our tried and tested quality imaging solutions. We strive to raise the bar by engineering and manufacturing cutting edge cameras and converters. From concept to reality, **AIDA Imaging** meticulously creates products that are applicable to various solutions, effective for the global user.