BirdDog

X1 · X1
ULTRA

5 YEAR WARRANTY 5

X1. X1 Ultra. Bring on the X-Factor.

Get ready to revolutionize your content creation experience with X1 and X1 Ultra – PTZs like no other.

Experience category defining smooth, controllable movement and stunning image quality with X1 and X1 Ultra, with Halo Tally and AI Tracking for pure live production magic.

Say hello to seamless connectivity with NDI® | HX3 and Wi-Fi, ensuring you stay at the cutting edge of technological excellence.

And here's the final showstopper: an industry-first e-ink display that not only tells you everything you need to know, but stays brilliantly visible even when the camera is off!

Elevate your creativity, embrace innovation, and let the excitement unfold with X1 and X1 Ultra.

Integrated NDI Decoder.
Let's hook up.

The X1 and X1 Ultra are the world's first PTZ cameras featuring an NDI® | HX* Decoder designed specifically for confidence monitoring, return feeds, or teleprompter usage. We've pulled all this connectivity into a single cable, radically simplifying how you interface with your equipment. Less gear. Less hassle. Whether you're broadcasting live or delivering a CEO address, the integrated NDI HX decoder enables more brilliance with less setup.

*NDI® | HX2 and NDI® | HX3 supported

AI Tracking.
We welcome our AI overlords.

Every production could use a little help from a friend. The X1 and X1 Ultra keep your subject in focus with AI tracking technology, intelligently following your subject's movements in real-time. Whether you're orchestrating a live event, capturing spontaneous moments in a hybrid environment, or hunting down sports action, AI tracking helps you get well framed – without needing an octopus to run the controller.

Wi-Fi.
Connected but not connected.

No need to use cables to capture every shot. On top of regular ethernet with PoE, X1 and X1 Ultra have built-in Wi-Fi functionality. Easily capture shots from spots where it's hard to run cable, seamlessly integrating into any environment. Your set up just became a whole lot more flexible.
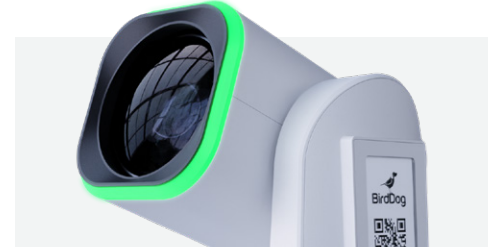
E-Ink Label. Get Inked.

The always-on e-Ink label on the X1 and X1 Ultra is a game-changer. From network addresses for easy access to controls through to customisable logos to complement your brand image, this cool feature ensures that your set-up is clear and each camera easily identifiable even when the power is off.
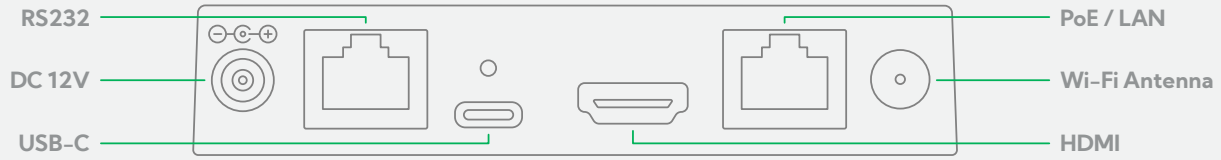
NDI® | HX3.

The X1 and X1 Ultra deliver superior network performance via NDI® | HX3 integration. You get significantly reduced network impact and excellent image quality, meaning its more friendly in more network environments. BirdDog's NDI® | HX3 delivers quality and performance you can count on.

Tally Light. It's a Halo Effect.

Professional results need professional tools. X1 and X1 Ultra sport the most visible and effective Tally system available. Up front with a large, daylight visible border, and out back with an interchangeable, illuminated numbering system. Your cast and crew will always know where to look to keep you audience engaged and your look polished.

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Feature	X1	X1 Ultra
IMAGING		
Image Sensor	Sony 1/2.8" CMOS · FULL HD	Sony 1/2.8" CMOS · ULTRA HD
Lens	f=5.5mm – 110mm	f=4.1mm – 49.2mm
Optical Zoom	20x	12x
Video Format	1080p @ 60/59.94/50/30/29.97/25fps 720p @ 60/50/30/25fps	2160p @ 30/29.97/25fps 1080p @ 30/29.97/25fps 720p @ 30/29.97/25fps
Horizontal angle of view	55.8° (W) – 3.2° (T)	70.28° (W) – 6.57° (T)
Vertical angle of view	32.2° (W) – 1.8° (T)	42.06° (W) – 3.76° (T)
Diagonal angle of view	61° (W) – 3.64° (T)	78.36° (W) – 7.5° (T)
Aperture	F1.6 ~ 3.5	F1.8 ~ 2.68
Focus	Auto, Manual	
Exposure	Auto, Shutter Priority, Iris Priority, Manual	
Backlight Compensation	Yes	
Digital Noise Reduction	2D and 3D Noise Reduction	
SNR	>50dB	
Effective Pixels	2.07 MP	8.29 MP
MECHANICAL		
Pan/Tilt Rotation	±175°, –90° ~ +90°	
Pan Control Speed	0.1 –80°/sec	
Tilt Control Speed	0.1 –60°/sec	
Preset Number	255 presets	
I/O INTERFACE		
Video Output Interfaces	HDMI, USB-C UVC 1.1, Network	
Video Compression Formats	H.264, H.265	
Network Interfaces	100M adaptive Ethernet port; POE IEEE802.3af, Wi-Fi IEEE 802.11ac	
Encoder Network Protocols	NDI|HX2, NDI|HX3, RTSP, RTMP	
HDMI Decoder Network Protocols	NDI|HX2, NDI|HX3	
Control Interfaces	10M/100M Ethernet, Wi-Fi IEEE 802.11ac, RS232 (input & output), RS485, TYPE-C(UVC1.1)	
Control Protocols	VISCA Baud Rate: 38400/9600/4800/2400, VISCA-IP, NDI	
GENERAL PARAMETER		
Input Voltage	DC 12V, PoE IEEE802.3af	
Input Current	2.0A (Max.)	
Power Consumption	13W (Max.)	
Working Temperature	–10°C ~ +40°C	
Working Humidity	20% ~ 80%	
Dimension (W*H*D)	171.6*192.6*171.6mm / 260*217*197mm (before / after packing)	
Net and Gross Weight	1.35kg/2.05kg (Net/Gross weight)	1.43kg/2.096kg (Net/Gross weight)