



X5 ULTRA



X5 Ultra. Simply Xtreme.

BirdDog X5 Ultra. Take your production to the next level. Category defining image quality meets uncompromising connectivity and advanced mechanical design. Featuring NDI® | HX3 up to 4K60, 12G SDI connectivity, simultaneous NDI® | HX2/3 decoding, Halo Tally light, dual e-Ink displays and advanced AI auto framing, tracking and control.

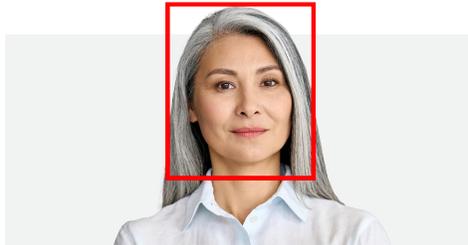
Imagine next-level robotic controls with ultra-fine and precise movement thanks to its category-busting advanced motor drive system. Movements on air are a breeze, and acceleration/deceleration of moves look natural and slick. Sporting BirdDog's signature Halo tally system for true audience engagement, revolutionary built-in NDI® decoding*, all the video connectors, including 12G-SDI, dual e-ink displays make branding and maintenance a snap, all wrapped up with a stunning Sony 4K60 image sensor delivering the highest performance NDI® | HX3 possible. X5 Ultra. In every way.



Halo Tally.

A higher order of visual queue.

Professional results need professional tools. The X5 Ultra sports the most visible and effective Tally system available. Up front, with a large, daylight-visible border keeping talent looking directly at the camera. Your cast and crew will always know where to look, keeping your audience engaged.



AI Tracking.

Built for now and the future.

We aren't playing catch-phrase bingo here. X5 Ultra takes AI auto-tracking and framing to the next level. Featuring an order of magnitude more neural processing capabilities, the out-of-the-box X5 Ultra has incredible AI powers but also the headroom to grow as AI progresses. Magic.



E-ink Label. Get Inked.

The dual, always-on e-ink labels on the X5 Ultra are a game-changer. From network addresses for easy access to controls to customisable logos* to complement your brand image, this cool feature ensures that your set-up is clear and each camera is easily identifiable even when the power is off.

*Coming soon



Connectivity for days.

Video productions all look different. We love NDI® because it allows a single network cable to operate everything, but sometimes it makes sense to take a different path. X5 Ultra makes this a snap. In a world of compromise, the X5 Ultra stands proud.

With 12G-SDI output, dual HDMI outputs, multiple network formats, including NDI® | HX3, SRT, RTMP and RTSP, Webcam connectivity over USB, however you work and whatever demand in quality you've got it at your fingertips.



NDI® | HX3. In 4K60.

Performance meets convenience

The X5 Ultra delivers superior network performance via our implementation of NDI® | HX3. Significantly reducing network impact while maintaining excellent image quality, meaning it is more friendly in more network environments. BirdDog's NDI® | HX3 surpasses certification parameters, delivering quality and performance you can count on across ALL video resolutions.

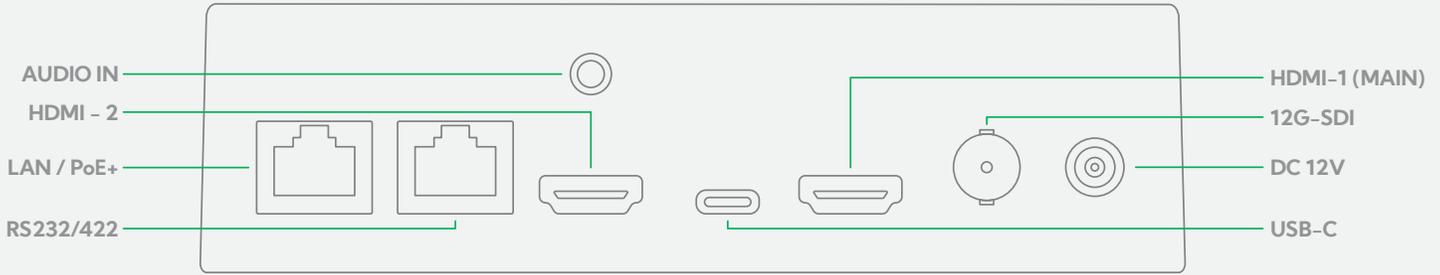
X5 Ultra blows all other cameras out of the game with NDI(r) | HX3 performance in 4K60 – sometimes the fine print is important.



Integrated NDI® | HX Decoder. It can't get much more convenient!

The X5 Ultra is part of the family of PTZ cameras featuring the first simultaneous NDI® | HX* Decoder designed specifically for confidence monitoring, return feeds, or teleprompter usage. We've pulled all this connectivity into a single cable. Less gear. Less hassle. Less complexity. Whether you're broadcasting live or delivering a CEO address, the integrated NDI® | HX decoder enables more engagement with less setup.

*NDI | HX2 and NDI | HX3 supported in specific resolutions – see tech specs.



Feature	X5 Ultra
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IMAGING

Image Sensor	Sony 1/2.8" CMOS · ULTRA HD
Lens	f=5.4mm - 104mm
Optical Zoom	20x
Video Format	2160p @ 60, 59.94, 50, 30, 29.97, 25fps 1080p @ 60, 59.94, 50, 30, 29.97, 25fps 720p @ 60, 59.94, 50fps
Horizontal angle of view	56.6° (W) – 3° (T)
Vertical angle of view	32.5° (W) – 1.7° (T)
Diagonal angle of view	64.7° (W) – 3.5° (T)
Aperture	F1.6 ~ 3.6
Focus	Auto, Manual
Exposure	Auto, Shutter Priority, Iris Priority, Manual, BLC, WDR
Shutter Speed	1/1 - 1/10000s
Backlight Compensation	YES
Digital Noise Reduction	3D Noise Reduction
SNR	>50dB
Effective Pixels	8.46MP
Filter Ring	Ø 49mm
AI Tracking	Present

MECHANICAL

Pan/Tilt Rotation	±170°, -30° ~ +90°
Pan Control Speed	0.1 - 200°/sec
Tilt Control Speed	0.1 - 200°/sec
Preset Number	128 Presets, Speed Adjustable
Integrated Tally Light	Halo Style, RGB
Pan/Tilt Drive System	Ultra-fine Drive
Quietness	Max 28dB at full speed pan

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I/O INTERFACE

Video Output Interfaces	12G-SDI, HDMI 2.0, HDMI 1.4, USB-C UVC 1.1, 1Gb Network
Video Compression Formats	H.264, H.265
Network Interfaces	1GbE adaptive Ethernet port; POE+ IEEE 802.3at
Encoder Network Protocols	NDI® HX2, NDI® HX3, SRT, RTSP, RTMP
HDMI Decoder Network Protocols	NDI® HX2, NDI® HX3
Decoder supported resolutions	1080p @ 60 / 59.94 / 50 / 30 / 29.97 / 25fps 720p @ 60 / 59.94 / 50fps
Control Interfaces	1GbE Ethernet, RS232 (input & output), RS422, TYPE-C(UVC1.1)
Control Protocols	VISCA Baud Rate: 38400/9600/4800/2400, VISCA-IP, NDI®
Analogue Audio	3.5mm (1/4") Mic In / Line In (Stereo)
Digital Audio	Embedded with Main & Secondary HDMI, 12G-SDI, Network Video, USB (UVC)

GENERAL PARAMETER

Environmental Operation	Internal
Input Voltage	DC 12V, PoE+ IEEE802.3at
Input Current	2.0A (Max.)
Power Consumption	18W (Max.)
Working Temperature	0°C ~ +40°C
Working Humidity	20% ~ 80%
Dimension (W*H*D) mm	185.7*171.9*200.90mm (before packing) 271*275*245mm (after packing)
Dimension (W*H*D) in	7.31*6.76*7.90in (before packing) 10.6*10.8*9.6in (after packing)
Net and Gross Weight	2.31kg/3.76kg (Net/Gross weight)