

BirdDog X - Species Comparisons

 labspace tools to create www.labspace.au		Welcome to the latest puppy to join the flock Oct 2025 & shipping 		Welcome to the latest puppy to join the flock Oct 2025 & Shipping 		 DUE End Nov 2025
PTZ Camera Model	X1 20x	X1 30x	X1 Ultra	X4 Ultra	X5 Ultra	XL Ultra
IMAGING						
Image Sensor	Sony 1/2.8" CMOS • HD	Sony 1/2.8" CMOS • HD	Sony 1/2.8" CMOS • ULTRA HD	Sony 1/1.8" CMOS • ULTRA HD	Sony 1/2.8" CMOS • ULTRA HD	Sony 4/3" CMOS • 5K
Lens	f=5.5mm ~ 110mm	f=5.2mm ~ 148.4mm	f=4.1mm ~ 49.2mm	f=6.25mm ~ 125mm	f=5.4mm ~ 104mm	f=9.8mm ~ 186mm
Optical Zoom	20x	30x	12x	20x	20x	20x
Video Format 3840 x 2160p UHD 16:9	-	-	fps 30, 29.97, 25	fps 60, 59.94, 50, 30, 29.97, 25	fps 60, 59.94, 50, 30, 29.97, 25	fps 60, 59.94, 50, 30, 29.97, 25
Video Format 1920 x 1080p HD 16:9	fps 60, 59.94, 50, 30, 29.97, 25	fps 60, 59.94, 50, 30, 29.97, 25	fps 30, 29.97, 25	fps 60, 59.94, 50, 30, 29.97, 25	fps 60, 59.94, 50, 30, 29.97, 25	fps 60, 59.94, 50, 30, 29.97, 25
Video Format 1920 x 1080i HD 16:9	-	-	-	fps 59.94, 50	-	fps 60, 59.94, 50
Video Format 1280 x 720p HD 16:9	fps 60, 50, 30, 25	fps 60, 50, 30, 25	fps 30, 29.97, 25	fps 60, 59.94	fps 60, 59.94, 50	fps 60, 59.94, 50
Video Format 608 x 1080p HD 9:16	-	fps 60, 59.94, 50, 30, 29.97, 25	-	-	-	-
Horizontal Angle of View	55.8° (W) ~ 3.2° (T)	58.1° (W) ~ 2.14° (T)	70.28° (W) ~ 6.57° (T)	60° (W) ~ 3.5° (T)	56.6° (W) ~ 3° (T)	71° (W) ~ 4° (T)
Vertical Angle of View	32.2° (W) ~ 1.8° (T)	33.8° (W) ~ 1.2° (T)	42.06° (W) ~ 3.76° (T)	35° (W) ~ 2.0° (T)	32.5° (W) ~ 1.7° (T)	40° (W) ~ 2° (T)
Diagonal Angle of View	61° (W) ~ 3.64° (T)	65.4° (W) ~ 2.48° (T)	78.36° (W) ~ 7.5° (T)	66.6° (W) ~ 4.0° (T)	64.7° (W) ~ 3.5° (T)	79° (W) ~ 4.5° (T)

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IMAGING continued						
Aperture (Max)	F1.6 ~ 3.5	F1.3 ~ 4.8	F1.8 ~ 2.68	F1.58 ~ 3.95	F1.6 ~ 3.6	F2.8 ~ 4.5
Focus	Auto, Manual	Auto, Manual	Auto, Manual	Auto, Manual	Auto, Manual	Auto, Manual
Exposure	Auto, Shutter Priority, Iris Priority, Manual	Auto, Shutter Priority, Iris Priority, Manual	Auto, Shutter Priority, Iris Priority, Manual	Auto, Shutter Priority, Iris Priority, Manual	Auto, Shutter Priority, Iris Priority, Manual, BLC, WDR	Auto, Shutter Priority, Iris Priority, Manual, BLC, WDR
Backlight Compensation	YES	YES	YES	YES	YES	YES
Shutter Speed				1/1 - 1/10000s	1/1 - 1/10000s	1/1 - 1/10000s
Digital Noise Reduction	2D and 3D Noise Reduction	2D and 3D Noise Reduction	2D and 3D Noise Reduction	3D Noise Reduction	3D Noise Reduction	3D Noise Reduction
SNR	>50dB	>50dB	>50dB	≥45dB	>50dB	300lux-600lux 45-50dB
Effective Pixels	2.07 MP	2.07 MP	8.29 MP	8.42 MP	8.46 MP	20.89 MP
AI Tracking	Presenter	Presenter	Presenter	Presenter + Zone	Presenter	Presenter + Zone + Auto-Framing + Gesture Control
Filter Ring	-	-	52mm	-	49mm	-
Built-in ND Filter	-	-	-	-	-	YES 1, 1/4/ 1/16, 1/64
Optical Low Pass Filter (OLPF)	-	-	-	-	-	YES

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SECONDARY WIDE CAMERA						
Image Sensor	-	-	-	-	-	Sony 1/1.8" CMOS • ULTRA HD
Lens	-	-	-	-	-	Fixed
Focal Length	-	-	-	-	-	f=4.4mm
Aperture	-	-	-	-	-	F2.0
Horizontal Field of View	-	-	-	-	-	85°
Vertical Field of View	-	-	-	-	-	53°
Diagonal Field of View	-	-	-	-	-	93°

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PTZ Camera Model	X1 20x	X1 30x	X1 Ultra	X4 Ultra	X5 Ultra	XL Ultra
MECHANICAL						
Pan/Tilt Rotation	±175°, -90° ~ +90°	±175°, -90° ~ +90°	±175°, -90° ~ +90°	±170°, -30° ~ +90°	±170°, -30° ~ +90°	±170°, -30° ~ +90°
Pan Control Speed	0.1 ~ 80°/s	0.1 ~ 80°/s	0.1 ~ 80°/s	1.7 ~ 80°/s	0.1 ~ 200°/s	0.05° ~ 120°/s
Tilt Control Speed	0.1 ~ 60°/s	0.1 ~ 60°/s	0.1 ~ 60°/s	1.7 ~ 60°/s	0.1 ~ 200°/s	0.05° ~ 90°/s
Preset Number	255 presets	255 presets	255 presets	255 presets	128 presets, Speed Adjustable	256 presets
Integrated Tally Light	HALO tally and rear number tally system (RGB)	HALO tally and rear number tally system (RGB)	HALO tally and rear number tally system (RGB)	HALO tally and rear number tally system	HALO tally (RGB)	HALO tally and rear number tally system (RGB)
Pan/Tilt Drive System	-	-	-	-	Ultra-fine Drive	Ultra-fine Drive
Display	e-Ink 2.93" Display	e-Ink 2.93" Display	e-Ink 2.93" Display	e-Ink 2.16" Display	2x e-Ink 2.93" Display	2x e-Ink 3.7" Display
Quietness	-	-	-	-	Max 28dB at full speed pan	NC 50 (with a sound pressure level corresponding to the 500Hz - 1kHz frequency band being 49 - 51 dB)

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I/O INTERFACE						
Video Output Interfaces	HDMI, USB-C UVC 1.1, Network	HDMI, USB-C UVC 1.1, Network	HDMI, USB-C UVC 1.1, Network	3G-SDI, HDMI, USB-C UVC, Network	12G-SDI, HDMI 2.0, HDMI 1.4, USB-C UVC 1.1, 1Gb Network	12G-SDI, 3G SDI x 2, HDMI 2.0, USB-C, 1Gb RJ45, 12G-SDI SFP+ Cage (Ethernet), SFP Cage (Ethernet)
Video Compression Format	H.264, H.265	H.264, H.265	H.264, H.265	H.264, H.265	H.264, H.265	H.264, H.265, SpeedHQ
Network Interfaces	100M adaptive Ethernet port; POE IEEE802.3af, Wi-Fi IEEE 802.11ac	100M adaptive Ethernet port; POE IEEE802.3af, Wi-Fi IEEE 802.11ac	100M adaptive Ethernet port; POE IEEE802.3af, Wi-Fi IEEE 802.11ac	1Gbps adaptive Ethernet port; PoE IEEE 802.3at, WiFi 6 2x2 MIMO (Optional Base station)	1GbE adaptive Ethernet port; POE+ IEEE 802.3at	1x 1GbE Adaptive Ethernet port, PoE+, 1x SFP+ Cage (Ethernet)
Encoder Network Protocols	NDI® HX2, NDI® HX3, SRT, RTSP, RTMP	NDI® HX2, NDI® HX3, SRT, RTSP, RTMP	NDI® HX2, NDI® HX3, SRT, RTSP, RTMP	NDI® HX2, NDI® HX3, SRT, RTSP, RTMP	NDI® HX2, NDI® HX3, SRT, RTSP, RTMP	High-Bandwidth NDI® (SpeedHQ), NDI® HX2, NDI® HX3, SRT, RTSP, RTMP
HDMI Decoder Network Protocols	NDI® HX2, NDI® HX3	NDI® HX2, NDI® HX3	NDI® HX2, NDI® HX3	-	NDI® HX2, NDI® HX3	NDI® HX2, NDI® HX3

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I/O INTERFACE continued						
Control Interfaces	10M/100M Ethernet, Wi-Fi IEEE 802.11ac, RS232 (input & output), RS485, TYPE-C(UVC1.1)	10M/100M Ethernet, Wi-Fi IEEE 802.11ac, RS232 (input & output), RS485, TYPE-C(UVC1.1)	10M/100M Ethernet, Wi-Fi IEEE 802.11ac, RS232 (input & output), RS485, TYPE-C(UVC1.1)	1Gbps Ethernet, USB-C, RS-232	1GbE Ethernet, RS232 (input & output), RS422, TYPE-C(UVC1.1)	1Gb Ethernet, SFP+, RS232 (input & output), RS422, TYPE-C (UVC)
Control Protocols	VISCA Baud Rate: 38400/9600/4800/2400, VISCA-IP, NDI®	VISCA Baud Rate: 38400/9600/4800/2400, VISCA-IP, NDI®	VISCA Baud Rate: 38400/9600/4800/2400, VISCA-IP, NDI®	VISCA Baud Rate: 38400/9600/4800/2400, VISCA-IP, NDI®, ONVIF	VISCA Baud Rate: 38400/9600/4800/2400, VISCA-IP, NDI®	VISCA-IP, NDI®, VISCA Serial, Pelco-P, Pelco-D
Analogue Audio	-	-	-	3.5mm TRS Mic In / Line In - 3.5mm TRS Line Out	3.5mm Mic In / Line In (Stereo)	2x Balanced Audio XLR
Digital Audio	-	-	-	-	Embedded with Main and Secondary HDMI, 12G-SDI, Network Video, USB (UVC)	Embedded with Main and Secondary HDMI, 12G-SDI, Network Video, USB (UVC)

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PTZ Camera Model	X1 20x	X1 30x	X1 Ultra	X4 Ultra	X5 Ultra	XL Ultra
GENERAL PARAMETER						
Environmental Operation	-	-	-	Internal	Internal	Internal
Input Voltage	DC 12V, POE IEEE 802.3af	DC 12V, POE IEEE 802.3af	DC 12V, POE IEEE 802.3af	DC 12V, POE IEEE 802.3at	DC 12V, POE+ IEEE 802.3at	DC-12V, PoE++
Input Current (Max.)	2A	2A	2A	5A	2A	5A
Power Consumption (Max.)	13W	13W	13W	-	18W	<60W
Battery Capacity	-	-	-	9450mAh	-	-
Battery Operating Time (Per Charge)	-	-	-	>6 Hours Run Time (Usage Dependent)	-	-
Working Temperature	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	0°C ~ +40°C	0°C ~ +40°C	0°C ~ +40°C
Working Humidity	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%
Dimension (WxHxD)	mm 171.6 x 192.6 x 171.6	mm 171.6 x 192.6 x 171.6	mm 171.6 x 192.6 x 171.6	mm 140.2 x 188.9 x 203.2	mm 185.7 x 171.9 x 200.90	mm 218.6 x 291.6 x 263.3
Net and Gross Weight	1.35Kg	1.35Kg	1.43Kg	2.19Kg	2.31Kg	4.02Kg