



 **BirdDog | P4K**

THE HIGHEST QUALITY FULL NDI®
CAMERA ON THE PLANET.

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Hello Sony 1" Sensor. Meet NDI.

P4K is the real deal. A huge 1" Sony Exmor R CMOS back lit Sensor and 14.4 million effective pixels enable P4K to deliver stunning pictures in 4K resolutions with Full Bandwidth NDI®. Excellent light sensitivity makes P4K perfect for all broadcast applications, sports, remote studios, newsrooms, house of worship and any shoot where quality matters.

Sony 1" Sensor. Size does matter.

The best images come from the best sensors and the P4K is built exclusively around the best sensor in its category. The massive 1" Sony Exmor R CMOS backlit sensor delivers truly stunning pictures in all shoot modes and frame rates whether in HD or 4K.

Full NDI. No compromises.

In the world of NDI® there are two flavours, NDI® and NDIHX. NDI® is a variable bit rate, I-Frame codec that reaches around 140Mbits at 1080p60 and is visually lossless. NDIHX is a compressed, long-GOP, H.264 variant that reaches around 12Mbits at 1080p60. P4K is a Full NDI® camera.

More than just a production PTZ. Shoot true cinematic styles.

P4K is a PTZ designed for the most demanding live production shoots and supports all the traditional frame rates you would expect including 29.97 but now you can use your PTZ as a camera for TVC's, drama, and shoot 24p for that wonderful cinematic look.

Advanced Colour Controls.

With user selectable gamma settings and black gamma adjustment, fine tuning your shot has never been more flexible in a PTZ. Sony's legendary sensor technology sets the tone for your next quality production.

Superfine Robotics. Precise control at your fingers.

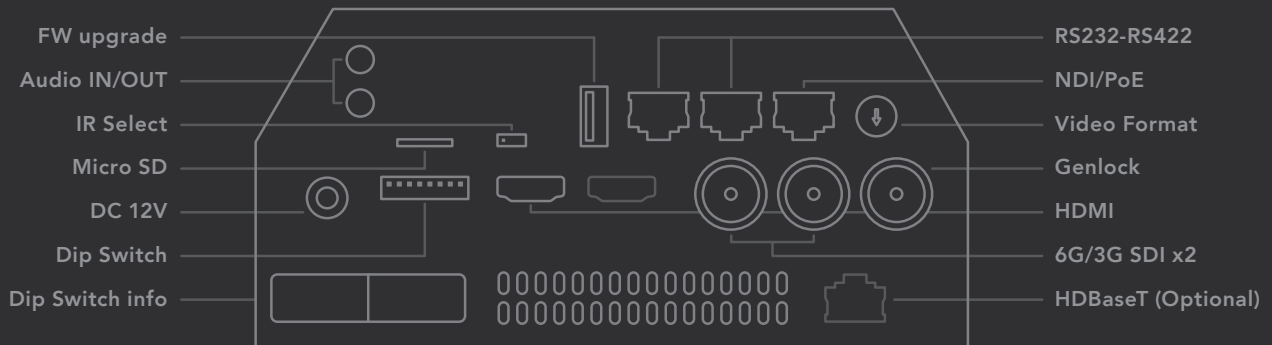
P4K's robotics are super precise and super sensitive. Wind down the panning and tilting speeds to create super professional shots that are dramatic, or crank up the speeds for high action sports to allow you to follow the movements.

360 degree Tally lights.

The front, rear, and side Tally lights combine to create a 360 degree Tally light. Now everyone on the production set can see which camera is live to air.



BOLIN



Product Specifications

CAMERA

Image Sensor: 1.0-type back-illumin. Exmor R CMOS sensor
Number of effective pixels: 14.2 Megapixels
Picture elements: 3840 x 2160, 8.29 Megapixels
Lens: Optical, 12x
Digital Zoom: Digital Zoom 12x, with SRZ feature, 18x zoom at 4K, or 24x zoom at FHD.
Horiz. Ang. of View Focal Length: 64.6 (Wide) – 6.1 (Tele), f=9.3 to 111.6mm, F2.8(Wide), F4.5(Tele)
Min. object distance: 80mm (W), 1000mm (T)
Aperture: F2.8 Constant (W) – (T), 16 Steps
Min. Illumination: 0.5 lux (1/30 sec, 50%, Hi-Sen. mode On)
 2.0 lx (1/30 sec, 50%, High Sensitivity mode Off)
 0.067 lx (1/4 sec (1/3 sec), 50%, High Sensitivity mode On)
 0.267 lx (1/4 sec (1/3 sec), 50%, High Sensitivity mode Off)
Shutter Speed: 1/10000s to 1/8 (59.94/29.97)
Focus: Auto Focus (Trigger/Interval), Manual Focus (Variable Sp.), One Push Trigger, Near Limit
White Balance: AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp(Fix/Auto/Outdoor Auto)
Exposure: Full Auto, Gain, Gain Limit, Shutter Priority, Iris Priority, Manual, Bright,

Slow Shutter, Max/Min Shutter Limit, Slow AE
Features: High Sensitivity, Defog mode, Backlight Comp., HLC, E-FLIP, Mirror, Flicker Control, Day/Night, Defog
WDR: YES (130dB) - **ND Filter:** YES
Image Stabilizer: YES
Color Gain: Yes (15 step) - **Color Hue:** Yes (15 step)
Gamma: Standard/Straight/MOVIE/STILL/CINE1/CINE2/CINE3/CINE4/ITU709/Pattern
Gamma Level: Yes (15 step)
Black Level: Yes (97 step) - **Flicker Cancel:** Yes
Noise Reduction: On/Off (level 5 to 1/Off, 6 steps), 2D/3D
S/N Ratio: ≥50db
MECHANICAL
Pan Movement: Horiz.: ±175° pan (Zoom Adaptive Speed Range: 0.05° to 100°/s)
Tilt Movement: Vertical: +90° to -30° (Zoom Adaptive Speed Range: 0.05° to 50°/s)
Preset Position/Speed: 0~5 Level Adjustable
Preset Memory: YES, (Picture Profile Preset-Preset Memory for image parameters)
Quietness: 45dB
Home Position: Supported - **Environmental:** Indoor
INTERFACE
4K Video Output: Main 4K HDMI Type-A (x1)
 6G-SDI (x2) or Dual Link 3G-SDI (2SI only) x2

HD Video Output: Main HD HDMI Type-A (x1) - 3G-SDI x2
HDMI Color Space: YCbCr, 4:2:2 RGB, 4:4:4
NDI Video Encode: Full bandwidth NDI
IP Video Stream: Up to 4K/30 & 1080p60
Camera Control Interface: RS232/RS422/RS485(RJ45 x2), NDI/IP Control (RJ45), IR Remote Control
Control Protocol: NDI, VISCA, VISCA IP
LAN: RJ45 x1(1GbE), NDI/IP video streaming, System upgrade, PoE+ (IEEE 802.3at)
Analogue Audio I/O
 3.5mm Audio In (Mono), 3.5mm Audio Out (Mono)
Audio Output:
 Embedded with main HDMI, 24bit Stereo
 Embedded with SDI, 24bit Stereo. Embedded with NDI
 360° Tally: Front, Side, Back
ENVIRONMENTAL
Optional Mounts: Ceiling mount, Wall mount, Tripod
Operating Temperature : -10 to +40 (°C), 32 to 104 (°F)
Operating Humidity: ≤80% Suitable for Use
Power Input: 12V DC, PoE+ (IEEE 802.3at)
Power Consumption: 22W
Dimension: 165x196x247mm
Weight: 3.4Kg