



## BirdDog | PF120

### Unbox your new NDI® Box Cam.

Introducing PF120, the all new box camera that comes with all the amazing features you have come to expect from BirdDog cameras.

Sony Exmor R back illuminated sensor, Full NDI®, with a 20x optical zoom, and a complete colour matrix all housed in a full metal enclosure that is built for life on the road. You've been asking ever so nicely, so we went ahead and boxed it up for you.

#### **Sony Exmor R Sensor. You deserve the best.**

With a Sony Exmor R™ back-illuminated CMOS image sensor, PF120 delivers beautiful images with significantly enhanced imaging characteristics including enhanced low noise sensitivity.

#### **Full NDI®. No compromises.**

PF120 features BirdDog's unique NDI silicon to produce visually lossless, full bandwidth NDI, which is a variable bit rate, I-Frame codec that reaches around 140Mbps at 1080p60.

#### **Boss Level Colour Tools.**

PF120 has an incredible set of colour tools. With 64 levels of saturation and hue control over red, green, blue, cyan, yellow, and magenta, you can shade and match your PF120 cameras like a total boss. And of course, they're available in Cam Control as well.

#### **USB for Zoom, Teams, Meet. HDMI too.**

USB 2.0 UVC output allows for PF120 to connect directly to your favourite video conferencing platform giving even wider flexibility. There's also a HDMI output which is live at the same time as

#### **PoE or locking DC.**

PF120 can be powered by Power over Ethernet (PoE 802.11af) or from the included power adapter which has a locking connector for maximum reliability.

#### **20x Zoom & 49mm filter thread.**

Adding an ND Filter or even a fisheye lens is now possible with the 49mm filter thread and PF120 also comes with a lens cap.

#### **Built Like a Brick Outhouse.**

Custom built from the ground up to withstand the demands of modern productions, PF120 is housed inside a die cast chassis that is as strong as Donkey Kong™. Well almost.



## Product Specifications

### Camera

**Image Sensor:** SONY Exmor R CMOS  
 1/2.86" - 2.13MP  
**Lens:** 5.2-104mm  
**Optical Zoom:** 20x  
**Digital Zoom:** 16x  
**Field of View:**  
 55.8° (W) ~ 3.2° (T)  
**Aperture:** F1.5 (W) – F3.0 (T)  
**Min. Illumination:** 0.5 lux  
**Shutter Speed:** 1/1 – 1/10000s  
**Filter Ring:** Filter 49mm  
**Focus:** Auto, Push, Manual  
**White Balance:** Auto, Indoor, Outdoor, Manual, OPW, ATW  
**Exposure:** Auto, Manual, Shutter/Iris Priority  
**Backlight Compensation:** YES

### Mechanical

**Tally:** Front  
**Preset Positions:** 128  
**Preset Speed (Zoom):** 0-5 Level adjustable  
**Environmental:** Indoor  
**Operating Temp.:** -10 – +50 (°C)  
**Operating Humidity:** ≤80%  
**Noise at max. movement velocity (Zoom):**  
 Max 41dB at full speed zoom NC35  
**Mount:** 1/4-20" Tripod mount • 3/8" Tripod mount  
**Video Interface**  
**Video Output:** NDI/HDMI/USB2.0  
**Video Formats:** 1080p 60, 59.94, 50, 29.97, 25  
 1080i 60, 59.94, 50 • 720p 60, 59.94, 50  
**Audio I/O:** 3.5mm Audio In (Stereo)  
 3.5mm Audio Out (Stereo)  
 (NDI, and HDMI only)

### Control Interface

**IP PTZ Control:** NDI Control (auto config.), VISCA  
**Serial Control Protocol:** RS232 VISCA / PELCO D  
**LAN:** RJ45 x1 (1GbE), NDI/IP video streaming,  
 System upgrade, PoE (IEEE 802.11af)  
**Power & Dimension**  
**Power Input:** 12V DC, PoE (IEEE 802.11af)  
**Max Power draw:** 9W  
**Dimensions:** 158x60x71mm  
**Weight:** 666g (1lb 7.4oz)  
**Network**  
**Video Compression:** Full NDI – i-frame high  
 quality low latency NDI for production  
 USB UVC protocol  
**Network Protocol:** NDI – Discovery,  
 configuration and control  
**Web Control interface:** Full control via  
 Web/Mobile UI inc. Scene presets