



## BirdDog | P100

### Your entry into the world of NDI®.

Built on BirdDog's custom NDI® silicon chip with a Sony CMOS Sensor, the P100 PTZ camera is your entry into the world of full NDI®. Featuring frame rates up to 1080p60, 10x optical zoom, USB 2.0, HDMI, SDI, and Full NDI® outputs, P100 gives you professional level quality, performance, and total flexibility. 3.5mm audio connectors allow P100 to work with BirdDog Comms, the world's first NDI® audio intercom platform.

#### Full NDI®.

In the world of NDI® there are two flavours, NDI® and NDIHX. NDI® is a variable bit rate, I-Frame codec that reaches around 140Mbps at 1080p60 and is visually lossless. NDIHX is a compressed, long-GOP, H.264 variant that reaches around 12Mbps at 1080p60. Mini hardware only uses Full YUV422 NDI®.

#### Sony Sensor.

The best pictures come from the best silicon. P100 teams up a world class Sony CMOS Backlit Sensor with the BirdDog custom NDI® chip to form a match made in silicon heaven. Your productions deserve the best.

#### NDI®, SDI, HDMI, & USB.

With NDI®, SDI, and HDMI simultaneous outputs the P100 is ready to go live with full NDI® today or can be used as a traditional SDI/HDMI camera. You can rest easy in the knowledge that P100 has you covered for all workflow situations. P100 can connect via USB to use as a webcam. Perfect for boardrooms and huddle rooms.

#### Tiny Footprint.

P100 is incredibly small with a diameter of just 145mm / 5.7 inches making it perfect for courtrooms, boardrooms, classrooms, and any application where you need a small, yet powerful, PTZ camera.

#### Extreme Speed. Optics done right.

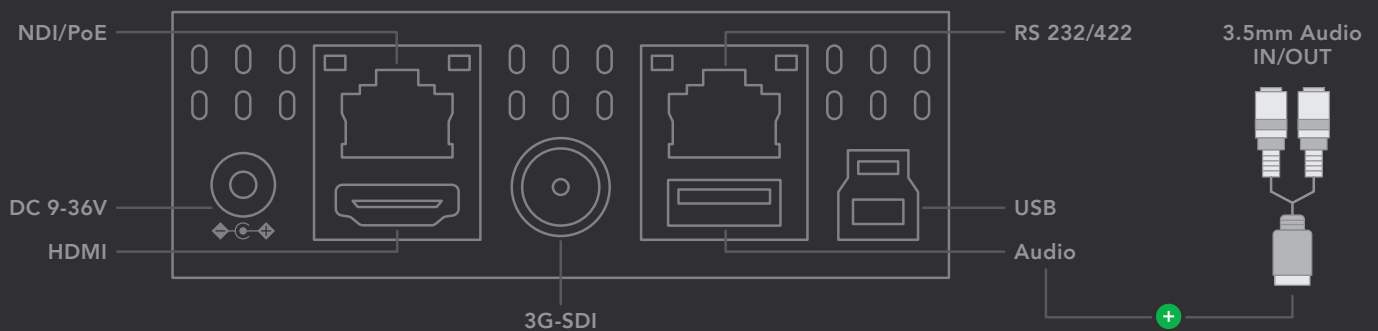
Lightning auto focus. Insanely fast zoom. Precision optics. P100 has been engineered to meet the most demanding situations whether you are in a boardroom streaming your quarterly results, producing a live event for your church, or live streaming sports.

#### PTZ Keyboard. Take control.

Combine P100 with the BirdDog PTZ Keyboard and you have total control of all functions remotely. PTZ Keyboard is a full featured controller that can control up to 255 PTZ cameras and can control P100 over NDI® or by RS422 / RS232 when using in SDI mode.



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## Product Specifications

### Camera

Image Sensor: 1/2.86" CMOS 2.2MP  
 Lens: 4.7 - 47mm  
 Optical Zoom: 10x  
 Digital Zoom: 12x  
 Horizontal Angle of View:  
 60.9° (W) – 6.43° (T)  
 Aperture: F1.6 (W) – F3.0 (T)  
 Min. Illumination: 0.5 lux  
 Shutter Speed: 1/1 – 1/30000s  
 Focus: Auto, Push, Manual  
 White Balance: Auto, Indoor, Outdoor, Manual,  
 OPW, ATW  
 Exposure: Auto, Manual, Shutter/Iris Priority  
 Backlight Compensation: YES

### Mechanical

Pan Movement: Horizontal: ±175° pan (Zoom  
 Adaptive Speed Range: 0.05° to 100°/s)  
 Tilt Movement: Vertical: +90° to -30° (Zoom  
 Adaptive Speed Range: 0.05° to 72°/s)  
 Preset Positions: 128  
 (Speed adjustable: Up to 150°/s)  
 Preset Speed: 0-5 Level adjustable  
 Environmental: Indoor  
 Operating Temp.: -10 – +50 (°C)  
 Operating Humidity: ≤80%

### Video Interface

Video Output: NDI/HDMI/3G-SDI/USB 2.0  
 Video Formats: 1080p 60, 59.94, 50, 29.97, 25  
 1080i 60, 59.94, 50 • 720p 60, 59.94, 50, 29.97, 25  
 Limited Resolution support over USB

### Audio Interface (via supplied USB accessory cable)

Audio I/O: 3.5mm Audio In (Stereo)  
 3.5mm Audio Out (Stereo)

### Control Interface

IP PTZ Control: NDI Control (auto config.),  
 VISCA IP  
 Serial PTZ Control: 1x RJ45: RS232/RS422  
 Serial Control Protocol: VISCA / PELCO D

### Power & Dimension

Power Input: 12V DC, PoE+ (IEEE 802.3at)  
 Dimensions: 145x145x154mm • Weight: 1.0Kg

### Network

Video Compression: Full NDI – i-frame high  
 quality low latency NDI for production  
 Network Protocol: NDI – Discovery,  
 configuration and control  
 Web Control interface: Full control via  
 Web/Mobile UI inc. Scene presets