



## BirdDog | EYES P200

**NDI® has never looked so good.**

Designed for serious production the image quality of P200 is best in class. By teaming up BirdDog's custom NDI® silicon chip, a Sony CMOS Backlit Sensor, and a true Sony Image Module, P200 has lightening auto focus, incredibly sharp images, and insanely fast zoom. P200 has frame rates up to 1080p60, 30x optical zoom, and features independent, live triple outputs in SDI, HDMI and Full NDI®.

### **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. P200 is a Full NDI® camera.

### **NDI®, SDI & HDMI.**

With NDI®, SDI, and HDMI simultaneous outputs the P200 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 P200 has you covered for all workflow situations.

### **Sony Sensor.**

The best pictures come from the best silicon. P200 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.

### **Sony Image Module.**

Lightning auto focus. Insanely fast zoom. Precision optics. The only way to achieve the best picture quality is with image module made by the world's best. P200 uses a true Sony image module to give unparalleled performance, picture quality, and responsiveness.

### **30x Optical zoom.**

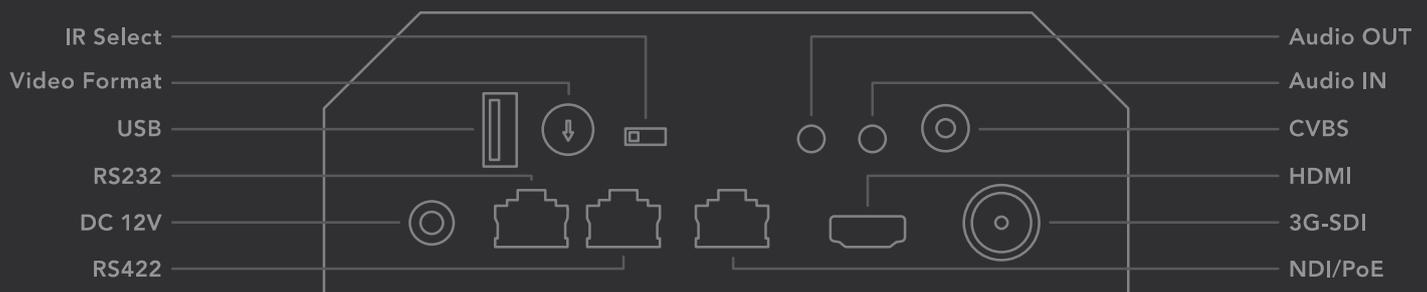
Never miss a shot again. 30x optical zoom brings the whole world to you. Now you can zoom in to the other end of a football game and stay locked in on the action. The incredible optical zoom function makes P200 perfect for sports such as football, baseball, hockey, ski fields, basketball, soccer, and more.

### **PoE or DC.**

P200 can be powered by Power over Ethernet (PoE) or from the included power adapter.



BOLIN



## Product Specifications

### Camera

**Image Sensor:** 1/2.8" CMOS 2.13MP

**Lens:** 4.3-129mm

**Optical Zoom:** 30x

**Horizontal Angle of View:**

63.7° (W) – 2.3° (T)

**Aperture:** F1.6 (W) – F4.7 (T)

**Min. Illumination:** Color: 0.01 lux (F1.6, AGC on, 1/30s, High sensitive mode), 0.1 lux (F1.6, AGC on, 1/30s, Normal sensitive mode)

**Shutter Speed:** 1/1 – 1/10000s

**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: ±350° continuous pan (Zoom Adaptive Speed Range: 0.05°~100°/S)

**Tilt Movement:** Vertical: +90° to -30° (Zoom Adaptive Speed Range: 0.05°~50°/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

**Video Formats:** 1080p 60, 59.94, 50, 29.97, 25

1080i 60, 59.94, 50 • 720p 60, 59.94, 50, 29.97, 25

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

3.5mm Audio Out (Stereo)

### Control Interface

**IP PTZ Control:** NDI Control (auto configuring)

**Serial PTZ Control:** 2x RJ45: RS232/RS422/RS485

**Serial Control Protocol:** VISCA / Pelco D

### Power & Dimensions

**Power Input:** 12v DC, PoE + (IEEE 802.3at)

**Max Power draw:** 18.19W

**Dimensions:** 160x178x220mm

**Weight:** 2.0Kg

### 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

## PTZ CAMERAS

### Features & Specifications Comparison

Feature/Specification	P100	P200	A200	A300
<b>CAMERA</b>				
Image Sensor	1/2.86" CMOS 2.2MP	1/2.8" CMOS 2.13MP		
Lens	4.7 - 47mm	4.3-129mm		
Optical Zoom	10x	30x		
Digital Zoom	12x	No	12x	
Horizontal Angle of View	60.9° (W) – 6.43° (T)	63.7° (W) – 2.3° (T)		
Aperture	F1.6 (W) – F3.0 (T)	F1.6 (W) – F4.7 (T)		
Min. Illumination	0.5 lux	Color: 0.01 lux (F1.6, AGC on, 1/30s, High sensitive mode), 0.1 lux (F1.6, AGC on, 1/30s, Normal sensitive mode)		
Shutter Speed	1/1 – 1/30000s	1/1 – 1/10000s		
Focus	Auto, Push, Manual			
White Balance	Auto, Indoor, Outdoor, Manual, OPW, ATW			
Exposure	Auto, Manual, Shutter/Iris Priority			
Backlight Compensation	YES			
<b>MECHANICAL</b>				
Pan Movement	Horizontal: ±350° continuous pan *		Horizontal: ±360° continuous pan *	
Tilt Movement	Vertical: +90° to -30° *		Vertical: -90° to +15° *	Vertical: +90° to -30° *
Preset Positions	128 (Speed adjustable: Up to 150°/s)		255 (Speed adjustable: Up to 150°/s)	
Preset Speed	0-5 Level adjustable		-	
Environmental	Indoor		Out/Indoor, IP67, corrosion resistant treated housing	Out/Indoor, IP67, corrosion resistant treated housing, wind load durability 60m/s, Nitrogen filled housing
Operating Temperature	-10 – +50 (°C)		-40 – +60 (°C)	
Operating Humidity	≤80%			
Infrared	-		Adaptive, illum. up to 100m	IR Laser, up to 500m
<b>VIDEO INTERFACE</b>				
Video Output	NDI/HDMI/SDI/USB	NDI/HDMI/SDI	NDI/SDI	
Video Formats	1080p 60, 59.94, 50, 29.97, 25 • 1080i 60, 59.94, 50 • 720p 60, 59.94, 50, 29.97, 25			
Audio I/O	3.5mm Audio In (Stereo) - 3.5mm Audio Out (Stereo)			
<b>CONTROL INTERFACE</b>				
IP PTZ Control	NDI Control (auto configuring)			
Serial PTZ Control	2x RJ45: RS232/RS422/RS485			
Serial Control Protocol	VISCA / Pelco D			
<b>POWER &amp; DIMENSIONS</b>				
Power Input	12v DC, PoE + (IEEE 802.3at)	12v DC, PoE + (IEEE 802.3at)	AC 24v, PoE 97W Ready (BirdDog PoE 97W Injector needed, optional)	
Power Consumption	-		Min. 15W, Max. 68W (-40°C)	Min. 24W, Max. 89W (-40°C, IR Laser ON)
Dimensions	145x145x154mm	160x178x220mm	210x210x333mm	180x180x423mm
Weight	1.0Kg	2.0Kg	5.5Kg	10.2Kg
<b>NETWORK</b>				
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			

\*Check Zoom Adaptive Speed Range on the single camera page.