BirdDog

P400

4K NDI® WITH PROFESSIONAL
LEVEL COLOUR CONTROL.

BirdDog | P400

Stunning 4K NDI® with incredible colour tools.
P400 features stunning 4K resolution NDI and allows chroma subsampling in your choice of 4:2:0 or 4:2:2. Wow.
P400 teams up BirdDog's custom NDI® silicon chip, a 4K Sony CMOS Backlit sensor, and a true Sony Image Module. Double Wow.
P400 includes professional-level colour tools including Colour Matrix control, Black level, Gamma including 512 pre-set gamma positions.
Triple Wow.

4:2:2 4K. Numbers matter.
P400 debuts the world's first 4K NDI with chroma subsampling at 4:2:2 which can be decoded natively in hardware by BirdDog's 4K Family of NDI Encoders and Decoders. If decoding with a 4:2:0 receiver the stream will automatically serve 4:2:0 and this is what will be decoded. Think of it as an automatic and virtual handshake.

Cam Control. Shade like a pro, bro.
BirdDog Cam Control allows full access to the entire colour matrix, black levels, and even the gamma to be able to shade your P400's like a total pro. Right click to view camera full screen on a secondary monitor to

really dial in the look you want and then copy the settings to colour match cameras in seconds. Yes that's right. Colour match cameras in seconds.

Incredible low light performance.
In low light conditions the camera automatically switches from day to night mode, removing the IR-cut filter to boost sensitivity for clear pictures in near-darkness.

Triple output. NDI®, 6G-SDI & HDMI.
With NDI®, 6G-SDI, and HDMI simultaneous outputs, the P400 is ready to go live with your full NDI® workflow today or if you are still in an old school SDI workflow you can

use as an SDI camera and ease your way into the world of NDI® when you are ready. We'll be here to welcome you into the future with open arms.
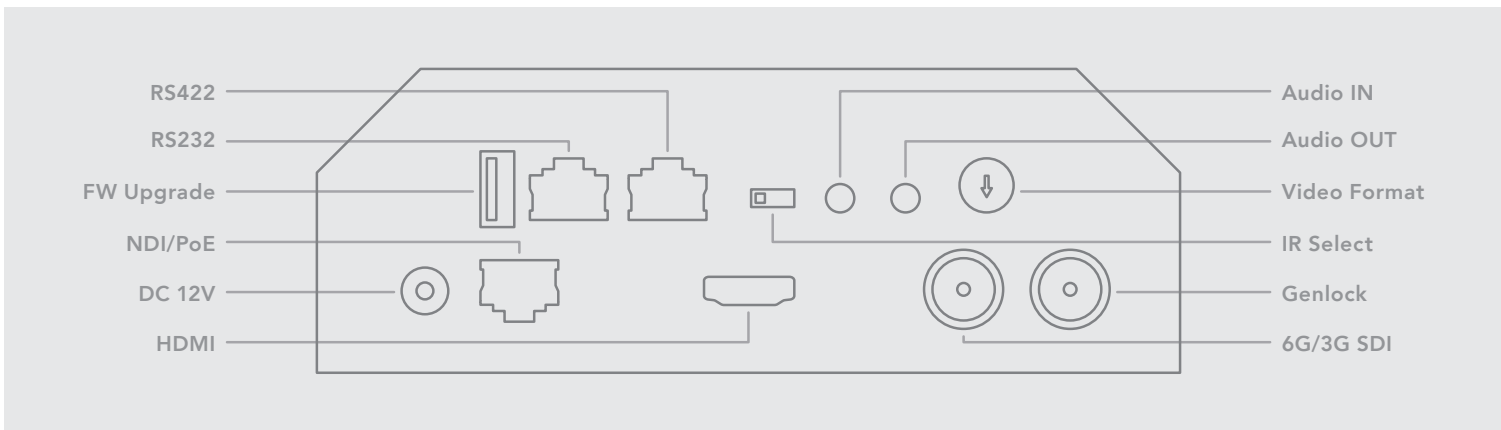
Superfine Robotics.
P400's robotics are super precise and super sensitive. Wind down the panning and tilting speeds to create super professional shots that are dramatic, or crank up the speeds for high action sports to allow you to follow the movements.
The 20x optical zoom offers a bright F2.0 aperture with a super smooth and fast zoom. Transition from wide to tele and recall pre-set positions really quickly.

BOLIN

RS422			Audio IN
RS232			Audio OUT
FW Upgrade			Video Format
NDI/PoE			IR Select
DC 12V			Genlock
HDMI			6G/3G SDI

Product Specifications

CAMERA
Image Sensor: 1/2.5 inch CMOS 8.5MP
Lens: 4.4-88.4mm - **Optical Zoom:** 20x
SRZ (Super Resolution Zoom): 30X in 4K, 40X in FHD
Horizontal Angle of View: 70.2°(W) – 4.1°(T)
Aperture: F2.0 – F3.8
Min. Illumination: Color: 0.4lux (1/30s, 50%, High Sensitivity mode On), 1.6lux (1/30s, 50%, High Sensitivity mode Off), 0.06lux(1/4s(1/3s),50%, High Sensitivity mode On)
Shutter Speed: 1/1 – 1/10000s
Features: Defog (Auto, 3 levels), Visibility enhancer, Black & White, E-Flip, Mirror, Colour enhancement, Black level, gamma, Sat/Hue Adjust, HLC, Colour Bar
WDR: YES (130dB) • **Image Stabilizer:** YES
Color Gain: Yes (16 step) – **Color Hue:** Yes (16 step)
Gamma: Standard, Straight, 512 pattern
Gamma Level: Yes (72 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

Focus: Auto Focus (Trigger/Interval), Manual Focus (Variable Speed), 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
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 50°/s)
Preset 128 Speed adjustable: Up to 150°/s
Environmental: Indoor
Operating Temperature: -10 – +40 (°C)
Operating Humidity: ≤80%

VIDEO INTERFACE
Video Output: NDI/HDMI/6G-SDI
4K Video Formats: 4Kp 30, 29.97, 25, 23.98, 24,
HD Video Formats: 1080p 60, 59.94, 50, 29.97, 25 1080i 60, 59.94, 50 • 720p 60, 59.94, 50
Audio I/O (Mono): 3.5mm Audio In / 3.5mm Audio Out

CONTROL INTERFACE
IP PTZ Control: NDI Control (auto config.), VISCA IP
Serial PTZ Control: 2x RJ45: RS232 / RS422 / RS485
Serial Control Protocol: VISCA / PELCO D

POWER & DIMENSIONS
Power Input: 12V DC, PoE+ (IEEE 802.3at)
Dimensions: 142x159x217mm • **Weight:** 2.7Kg

NETWORK
Video Compression: Full NDI – i-frame high quality low latency NDI for production
Network Protocol: NDI – Discovery, config. and control
Web Control interface: Full control via Web/Mobile UI includes Scene Presets
Optional Mounts: Ceiling mount, Wall mount