

4/3 Inch 4KP60 PTZ Camera

iSmart Video

NDI[®] Dante AV[™] SRT



4/3" CMOS



20MP



12G-SDI



4K P60/P59.94



20x Optical Zoom

Broadcast-grade
UHD Imaging



PDAF



OIS



OLPF



ND Filter

Cinema-grade
Image Capture



Powerful AI



Full NDI
(Optional)



Free-D



Dual Tally Lights

Professional-grade
Functions



PBC-120M

4/3" CMOS, 20MP

Fitted with a 4/3" CMOS sensor, 20 MP lens supports high quality broadcast-grade output up to 4K P60/P59.94, delivering videos of ultra-high clarity and precise detail reproduction, it is comparable to those of a cinema - level experience.



20X Optical Zoom

20x optical zoom, it vividly captures rich details even from far distance. Ideal for large-scale program production and live sports broadcasts, its compact design allows seamless adaptation to complex environments. It precisely captures fleeting moments, crafting high-quality and remarkable works.



12G-SDI&3GSDI Simultaneous Output

Equipped with 12G-SDI, it can output 4K P60 images. This powerful function fully meets the recording requirements for broadcast-level high-quality films. At the same time, it supports simultaneous output of images via 12G-SDI and 3G-SDI. During recording, the 3G-SDI images can be used for auxiliary monitoring.



PDAF+CDAF

The combination of PDAF and CDAF focusing technologies enables instant focusing on people/objects in large scenes, at high zoom, and during high-speed movement, ensuring continuous clear image output.



OIS+EIS

OIS and EIS fit diverse indoor/outdoor scenarios. Even in harsh outdoor conditions, the camera, powered by dual OIS and EIS, ensures steady, high-quality footage during recording.



OLPF

OLPF technology can reduce and eliminate moiré patterns caused by grids, shutters, and electronic screens during shooting. It can present clear and high-quality images. Even when using an LED screen as the background, it can stably output high-quality footage for film and television production.



ND Filter

The adjustable ND filter enables users to control the camera's light intake. Even in direct daytime sunlight, it can still output high - quality images. The pre - reserved threaded interface allows direct installation of personalized filters, adding a unique atmosphere to the film.



Free-D

The Free-D protocol can be used for AR/VR creation. Ensure seamless integration between virtual elements and real scenes, bringing a highly immersive viewing experience to the audience.



Optional Full NDI, SDVoe or HDBaseT

Optional Full NDI, SDVoe or HDBaseT, it facilitates the lossless and efficient transmission of videos, significantly saving wiring costs and time and improving the efficiency of film and television production.



15+ Years AI Technology Experience

Lecturer Tracking

Lecturer Tracking includes everywhere tracking, selected target tracking, gesture control etc. It supports adjustable target tracking aspect ratio by remote control, It not only significantly enhances the stability of tracking but also can adapt to complicated scenarios.



Anything Tracking

You can select any object in the video for tracking. It is not only a breakthrough in tracking technology but also expands the application scenarios of tracking. Any object can be tracked, making tracking a trend and a habit.



Diverse Application Scenarios

Multimedia classrooms and large-scale training sessions.....



Press conferences, large-scale events, and concerts...



Variety shows, sports arenas, and news recording sessions....



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|--------------------------|---|
| Model | PBC-120M |
| Tracking Camera | |
| Image Sensor | 4/3" CMOS, 20MP |
| Max Resolution | 4KP60 |
| Focal Length | f=9.8mm ~ 196mm |
| Iris | F2.8 ~ F4.5 |
| Optical Zoom | 20X |
| Field of View | Horizontal: 71° ~ 4°; Vertical: 40° ~ 2°; Diagonal: 79° ~ 4.5° |
| Digital Zoom | 16X |
| OLPF | Supported |
| ND Filter | Electronic: 1/64, 1/16, 1/4, 1 |
| Distortion Correction | Supported |
| Focusing Mode | PDAF+CDAF |
| Custom Filters | 82mm threaded interface for direct mounting |
| Image Parameters | |
| Image Style | One-key switching among multiple image styles |
| DNR | 2D & 3D |
| Min Illumination | 0.5Lux |
| Shutter Speed | 1/25-1/10,000s |
| Gain | Auto, Manual |
| White Balance | Auto, Manual, Indoor, Outdoor, Auto Tracking, Static Color Temperature, One push |
| Backlight Compensation | Supported |
| Wide Dynamic Range | Supported |
| Exposure Mode | Auto, Manual, Shutter Priority, Brightness Priority, Iris Priority, Auto Tracking |
| Metering Mode | Top, Bottom, Center, Average, Left, Right |
| S/N Ratio | ≥55dB |
| Parameter Adjustment | Image parameters can be adjusted independently |
| Color Matrix | Supported |
| Image Stabilization | OIS + EIS |
| Image Flip | Horizontal mirroring, Vertical flipping |
| PTZ | |
| Horizontal | -170°~+170°; 0.05°~120°/s |
| Vertical | -30°~+90°; 0.05°~90°/s |
| Software Function | |
| OSD | Customized overlay of OSD character |
| Preset Position Freezing | Supported |
| Software Upgrade | 1. USB upgrade, supporting Windows and Mac systems. 2. WEB upgrade, Supports Edge, Chrome, Safari and other major browsers 3. Network MgrTools Updated: Supports Windows & Mac |
| Powerful AI | |
| Lecturer Tracking | 1. Supports everywhere tracking, and select target tracking 2. Supports adjustable target tracking aspect ratio(Full body, half body, close up) 3. Supports setting the target position of the image (left, middle, right) 4. Supports the setting of preset areas 5. Support switching target and adjustable body size by remote control 6. Gesture control |
| Anything Tracking | Track any object besides human body |

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| Model | PBC-120M |
| Interface | |
| HDMI | <p>1-channel HDMI 2.0</p> <ol style="list-style-type: none"> 1. Audio: PCM, 48K, dual-channel 2. Color space: YUV/RGB 444 (8bit), YUV 422 (10bit) [The default color space is RGB 444 (8bit)] 3. Video resolutions: 3840*2160@60/50/30/25/24fps; 1920*1080@60/50/30/25/24fps; 1280*720@60/50/30/25fps 4. i-frame resolutions: 1080i@60/59.94/50fps 5. Broadcast TV resolutions: 3840*2160@59.94/29.97/23.98fps; 1920*1080@59.94/29.97/23.98fps; 1280*720@59.94/29.97fps |
| Network | <p>1-channel RJ-45 interface, supporting 10M/100M/1000M adaptive Ethernet.</p> <p>Standard configuration: IEEE802.3BT standard POE++ module (42V-57V wide operating voltage range)</p> <ol style="list-style-type: none"> 1. Video formats: H.264/H.265 2. Video resolutions: 3840*2160@60/50/30/25/24fps; 1920*1080@60/50/30/25/24fps; 1280*720@60/50/30/25fps; 640*360@60/50/30/25fps. 3. Network protocols: RTSP, RTMP, RTMPS, Visca Over IP, ONVIF, SRT, NDI HX3, Dante AV-H. 4. Audio compression: AAC 5. Supports multi-stream output. 6. Supports WEB UI, HTTP API |
| USB | <p>1-channel USB 3.0 Type-A (switchable between HOST and DEVICE)</p> <ol style="list-style-type: none"> 1. Audio output: UAC (PCM, 48K, dual-channel). 2. Color space: RGB 420 3. Compatible with USB 2.0. 4. UVC 1.1 protocol. 5. UVC video formats: <ul style="list-style-type: none"> •USB 3.0: H.264/H.265/MJPEG: 3840*2160@60/50/30/25/24fps; 1920*1080@60/50/30/25/24fps; 1280*720@60/50/30/25fps; 640*360@60/50/30/25fps NV12: 1920*1080@60/50/30/25/24fps; 1280*720@60/50/30/25fps; 640*360@60/50/30/25fps; •USB2.0: H.264/H.265/MJPEG: 1280*720@30/25fps; 640*360@30/25fps |
| 3G-SDI | <p>One channels of 3G-SDI, with audio output supported (PCM, 48K, dual-channel)</p> <ol style="list-style-type: none"> 1. Video resolutions: 1920*1080@60/50/30/25fps; 1280*720@60/50/30/25fps |
| 12G-SDI | <p>One channels of 12G-SDI (BNC), with audio output supported (PCM, 48K, dual-channel).</p> <ol style="list-style-type: none"> 1. Video resolutions: 3840*2160@60/50/30/25/24fps; 1920*1080@60/50/30/25/24fps; 1280*720@60/50/30/25fps 2. i-frame resolutions: 1080i@60/59.94/50fps 3. Broadcast TV resolutions: 3840*2160@59.94/29.97/23.98fps; 1920*1080@59.94/29.97/23.98fps; 1280*720@59.94/29.97fps |

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| Model | PBC-120M |
| SFP | One fiber optic network interface |
| Full NDI (Optional) | One channel of Full NDI, (mutually exclusive with HDBaseT and SDVoE). The video resolutions and formats are the same as those of HDMI |
| SDVoE (Optional) | One channel of SDVoE, (mutually exclusive with HDBaseT and Full NDI). The video resolutions and formats are the same as those of HDMI |
| HDBaseT (Optional) | One channel of HDBaseT, (mutually exclusive with SDVoE and Full NDI). The video resolution and format are the same as those of HDMI |
| Audio | Two Audio-Input XLR Cannon sockets: 1. Phantom power supply. 2. Support AAC/UAC. 3. Sampling rates: 16k, 32k, and 48k. |
| Factory Reset | Can be restored by pressing the reset button |
| Control | One channel RS-232/422 (RJ45) Support Visca, Pelco-P, and Pelco-D protocols |
| Security Lock Slot | One channel Kensington Lock |
| TF Card | External TF card, MAX 2TB, setting by web UI |
| Power | Input: 100-240V, 50-60Hz, output: DC 12V, 5A |
| General | |
| Preset Number | 256 |
| Indicator Light | Power indicator, status indicator, dual tally lights |
| OLED Display | Rotational display supported |
| Language | English |
| Installation Method | Upright, Inverted |
| Operating Temperature | Temperature: 0°C~+40°C; Humidity: 10%RH~90%RH |
| Storage Temperature | Temperature: -20°C~+60°C; Humidity: 10%RH ~95%RH |
| Dimensions (L*W*H) | 208.3mm*238mm*299.3mm |
| Weight | ≤5kg |
| Infrared Remote Control | Supported |

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Website



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