

All-in-One HD Teaching Tracking Camera

VHD-V800



Main Features

- **All-in-One Design**
All-in-One design, can output 5 channel HD video (3 channels for close-up camera, 2 channels for panorama camera) at the same time
- **Changeable Lens**
Panorama camera lens, compatible with M12 mount lens, can be replaced. It is easy to use for Classrooms of different sizes
- **Adjustable Viewing Angle**
Panorama camera can adjust viewing angle in vertical (-20° ~ 0°)
- **High Efficient Tracking**
Built-in leading image recognition and tracking algorithm, achieve smooth and natural tracking effect, without any auxiliary camera or tracking host
- **Same Image Style**
Both panorama camera and close-up camera use the same ISP, make sure the image output have the same brightness,color, style, etc

- **Easy Configuration**
Easy to make a configuration for tracking parameters by connecting to Ethernet directly. Just some basic parameters will be configed, and engineering debugging time and cost will be saved
- **72.5° Wide-angle Lens + 12x optical Zoom**
Close-up camera use 72.5° wide-angle high quality lens, support 12x optical zoom, and 16x digital zoom
- **1080P Full HD**
Apply Panasonic's high quality HD CMOS sensors of 1/2.7 inch, 2.07 million effective pixels, so as to reach maximum 1920 x 1080 resolution and achieve quality image
- **Ultra-high Frame Rate**
The output frame rate is up to 60fps in 1080p
- **AAC Audio Encoding**
Close-up camera support AAC audio encoding, better sound quality and smaller bandwidth
- **Local Storage**
Close-up camera supports USB disk local storage, achieving local recording directly without NVR

Close-up Camera

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|---------------------------|--|
| Video System | 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 |
| Sensor | 1/2.7", CMOS, Effective Pixel: 2.07M |
| Scanning Mode | Progressive |
| Lens | 12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8 |
| Digital Zoom | 16x |
| Minimal Illumination | 0.5 Lux @ (F1.8, AGC ON) |
| Shutter | 1/30s ~ 1/10000s |
| White Balance | auto, 3000K/indoor, 5000K/outdoor, VAR 2500 - 8000 K, one push, manual |
| Backlight Compensation | Yes |
| Digital Noise Reduction | 2D&3D Digital Noise Reduction |
| Video S/N | ≥55dB |
| Horizontal Angle of View | 72.5° ~ 6.9° |
| Vertical Angle of View | 44.8° ~ 3.9° |
| Horizontal Rotation Range | ±170° |
| Vertical Rotation Range | -30° ~ +90° |
| Pan Speed Range | 1.7° ~ 100°/s |
| Tilt Speed Range | 1.7° ~ 69.9°/s |
| H & V Flip | Yes |
| Image Freeze | Yes |
| Local Storage | Yes |
| Number of Preset | 255 |
| Preset Accuracy | 0.1° |

Panorama Camera

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| Video System | 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 |
| Sensor | 1/2.7", CMOS, Effective Pixel: 2.07M |
| Scanning Mode | Progressive |
| Lens Mount | M12 Mount |
| Panorama Lens | f=3.24mm, f1.8, AoV 60° (option: 85° or 120°) |
| Minimal Illumination | 0.5 Lux @ (F1.8, AGC ON) |
| Shutter | 1/30s ~ 1/10000s |
| White Balance | Auto, Indoor, Outdoor, One Push, Manual, Specified color temperature |
| Digital Noise Reduction | 2D, 3D digital noise reduction |
| Backlight Compensation | Yes |
| H & V Flip | Yes |

Network Features

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| Video Compression | H.264 / MJPEG |
| Video Stream | First Stream, Second Stream |
| First Stream Resolution | 1920x1080, 1280x720, 1024x576, etc. |
| Second Stream Resolution | 720x576, 720x480, 320x240, etc. |
| Video Bit Rate | 32Kbps ~ 20480Kbps |
| Bit Rate Type | Variable Rate, Fixed Rate |
| Frame Rate | 50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps |
| Audio Compression | AAC |
| Audio Bit Rate | 96Kbps, 128Kbps, 256Kbps |
| Support protocols | TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc. |

Input/Output Interface

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|-------------------------|---|
| | 1xHDMI: Version 1.3 |
| HD Output | 2x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard |
| Network Interface | 2xRJ45: 10M/100M Ethernet Interface |
| Audio Interface | 1-ch: 3.5mm Audio Interface, Line In |
| USB | 1xUSB2.0: Type A female jack |
| | 1xRS232 In: 8pin Min DIN, Max Distance: 30m, VISCA/Pelco-D/Pelco-P Protocol |
| Communication Interface | 2xRS232 Out: 8pin Min DIN, Max Distance: 30m |
| | 1xRS485: 2pin Phoenix Port, Max Distance: 1200m, VISCA/Pelco-D/Pelco-P Protocol |
| Power Jack | JEITA type (DC IN 12V) |

Generic Specification

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| Input Voltage | DC 12V |
| Current Consumption | 1.5A (Max) |
| Operating Temperature | -10°C ~ 40°C (14°F ~ 104°F) |
| Storage Temperature | -40°C ~ 60°C (-40°F ~ 140°F) |
| Power Consumption | 18W (Max) |
| MTBF | >30000h |
| Size | 240 (W) x 144(D) x 200(H) mm |
| Net Weight | 2.0Kg |