



SMT-3231PV

32-inch AI PVM with PIP/PBP functionality











Key Features

- 2MP AI Camera
- AI Engine-based Object classification and Intelligence video analytics
- Support for both Landscape and portrait mode
- Face Detection display for visual deterrent (Colored bounding box around detected
- Supports image slide shows without requiring an extra SD Micro Card or USB
- Customizable text overlay such as "Recording in progress"
- Support uploading logo image
- Support two windows Picture In Picture(PIP) and Picture By Picture(PBP)
- Dual power HPOE and DC 24V
- Monitor Power On/Off/Scheduling
- Monitor control via web(PIP/PBP configuration, Monitor Power, etc)
- Power Adapter is not included and sold separately
- * DC 24V Power Adapter(SPU-60240), HOPE Injector(SPO-8315)



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Specifications

| Display | | |
|---------------------|--------------------------|--|
| Туре | LED Monitor | |
| Screen Size | 31.55" | |
| Max. Resolution | 1920*1080 60Hz (FHD) | |
| Brightness | 400 cd/m ² | |
| Contrast Ratio | 1300:1 | |
| Aspect Ratio | 16:9 | |
| Viewing Angle (H/V) | 178°/178° | |
| Display Color | 16.7M Colors | |
| Response Time | 25ms | |
| Panel Life | 30,000 hours | |
| Interface | | |
| Video | Connectors | Camera(Internal, PIP/PBP), HDMI#1(PIP/PBP), HDMI#2 * two windows PIP/PBP: Internal Camera and HDMI#1 |
| | Connector | HDMI 1.4 x 2 |
| НДМІ | Available Format | - 640×480@60Hz/72Hz/75Hz - 800×600@60Hz/72Hz/75Hz - 1024×768@60Hz/75Hz - 1280x720p@50Hz/60Hz - 1280x1024@60Hz/75Hz - 1440x9000@60Hz - 1680x1050@60Hz - 1920×1080@60Hz |
| Audio | Output Signal | Speakers: 8Ω 2Wx 2 |
| Alarm | Alarm I/O | Input 1ea / Output 1ea |
| Network | Ethernet | 1 RJ-45 10/100BASE-T, |
| General | Edge Storage | Micro SD/SDHC/SDXC 1slot 256GB |
| On Screen Display | | |
| Functions | VESA™ DPM Compatible | |
| Language | English, Spanish, French | |
| General | | |
| Electrical | Input Voltage | DC24V, HPOE 802.3bt |
| | Power Consumption | 56W |
| Environmental | Operating Temperature | 0 ~ +40°C (+32°F ~ +104°F) |
| | Operating Humidity | 10% ~ 80% (non-condensing) |
| | 5 P 3 . 4 | 20,0 00,0 (00001101116) |



| Mechanical | | Dimensions without Stand (WxHxD) | 734mm(W) x 490mm(H) x 68mm(D) |
|--|-------------|-----------------------------------|---|
| Mechanical Cabinet Color Black VESA Mounts Interface VESA 100 x 100mm, 200 x 100mm, 200 x 200mm Camera Video 1/2.8° 2MP CMOS Wideo Max, Framerate H.265/H.264: Max. 30fpx/25fps(60Hz/50Hz) Min, Illumination Colori-0.03ux (§1.6.1/50sec) Lens Max, Aperture Ratio F1.6 Angular Field of View H: 107.7' /V: 59.0" / 0: 126.7" Backlight Compensation BLC, WDR, SSDR Wide Dynamic Range 120dB Digital Noise Reduction SSNR V, WiseNR II (Based on Al engine) Motion Detection Base, Apoint Polygonal zones Gain Control Low / Middle / High White Balance ATW / AWC / Manual / Indoor / Outdoor Loc Support Pictoric Shutter Speed Minimum / Maximum / Anti flicker (1/5-1/12,000sec) Operational Video Rotation File, Mirror, Hallway view(90-/270-) Classified object type: Person/Face Attributes Not support Video Rotation File, Mirror, Hallway view(90-/270-) Classified object type: Person/Face Attributes Not support Apoint Code Code Code Co | | | |
| VESA Mounts Interface VESA 100 x 100mm, 200 x 200mm | Mechanical | - | • |
| Imaging Device | | | |
| Imaging Device 1/2.8" 2MP CMOS | | VESA Mounts interface | VESA 100 X 10011111, 200 X 10011111, 200 X 20011111 |
| Video Max. Framerate | Camera | | |
| Min. Illumination Color: O.03Lux (F1.6. 1/30sec) Min. Illumination Color: O.03Lux (F1.6. 1/30sec) Focal Length (Zoom Ratio) 3.06mm fixed focal Max. Aperture Ratio F1.6 Angular Field of View H: 107.7" / V: 59.0" / D: 126.7" Backlight Compensation BLC, WDR, SSDR Wide Dynamic Range 120dB Digital Noise Reduction SSNR V. WiseNR II (Based on Al engine) Motion Detection Bea. 8point Polygonal zones Privacy Masking 32ea, 4point Quadrangle zones Gain Control Low / Middle / High White Balance ATW / AWC / Manual / Indoor / Outdoor LDC Support Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5-1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view (90-/270-) Lips of Abject of the speed on Al engine Analytics events based on Al engine Analytics events area (Appear/Disappear) Business Intelligence People counting. Queue management, Heatmap based on Al engine Analytics events area (Appear/Disappear) Alarm Triggers Analytics, Network disconnect. Alarm input Heatmap based on Al engine SD/SDMFO/SDXC or NAS recording at event in Heatmap and the Heatmap Expension and the Heatmap Expension and E | | Imaging Device | 1/2.8" 2MP CMOS |
| Lens Focal Length (Zoom Ratio) 3.06mm fixed focal Max. Aperture Ratio F1.6 Angular Field of View H: 107.7° / V: 59.0° / D: 126.7° Backlight Compensation BLC, WDR, SSDR Wide Dynamic Range 120de Digital Noise Reduction SSNR V, WiseNR II (Based on All engine) Motion Detection Bea. 8point Polygonal zones Privacy Masking 32ea. 4point Quadrangle zones Gain Control Low / Middle / High White Balance ATW / AWC / Manual / Indoor / Outdoor LDC Support Pictoriol Shutter Speed Minimum / Maximum / Anti flicker (1/5-1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view(90-/270-) Classified object type: Person/Face Attributes: Not support Attributes: Not support Analytics Analytics events based on All engine Analytics wents and a contagene of the privacy of the tection, Virtual area (Lotening/Intrusion/Enter/Exit) Analytics events and analytics wents and analytics wents analytics area (Lotening/Intrusion/Enter/Exit) Analytics events analytics wents analytics went | Video | Max. Framerate | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 15fps/12fps(60Hz/50Hz) |
| Max. Aperture Ratio | | Min. Illumination | Color: 0.03Lux (F1.6, 1/30sec) |
| Angular Field of View H: 107.7" /V: 59.0" / D: 126.7" Backlight Compensation BLC, WDR, SSDR Wide Dynamic Range 120dB Digital Noise Reduction SSNR V. WiseNR II (Based on AI engine) Motion Detection Bea, 8point Polygonal zones Privacy Masking 32ea, 4point Quadrangle zones Gain Control Low / Middle / High White Balance ATW / AWC / Manual / Indoor / Outdoor LDC Support Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5-1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view (90-/270-) Classified object type: Person/Face Attributes: Not support Support Support Support Support Support Support Analytics events based on AI engine - Motion detection, Virtual Ine(crossing/Direction), Virtual areal Loitering/Intrusion/Enter/Extl) Analytics events based on AI engine - Motion detection, Virtual areal Loitering/Intrusion/Enter/Extl) Analytics events based on AI engine Alarm Triggers Analytics, Network disconnect. Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail/FTP - N | | Focal Length (Zoom Ratio) | 3.06mm fixed focal |
| Backlight Compensation BLC, WDR, SSDR | Lens | Max. Aperture Ratio | F1.6 |
| Wide Dynamic Range 120dB | | Angular Field of View | H: 107.7° / V: 59.0° / D: 126.7° |
| Digital Noise Reduction SSNR V, WiseNR II (Based on AI engine) | | Backlight Compensation | BLC, WDR, SSDR |
| Motion Detection 8ea, 8point Polygonal zones Privacy Masking 32ea, 4point Quadrangle zones Gain Control Low / Middle / High White Balance ATW / AWC / Manual / Indoor / Outdoor LDC Support Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5-1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view(90-/270-) Classified object type: Person/Face Attributes: Not support Support DetectionShot Analytics well sead on Al engine - Motion detection, Object detection, Virtual line(Crossing/tection), Virtual area (Loitering/Intrusion/Enter/Exit) Analytics event area (Appear/Disappear) Business Intelligence People counting, Queue management, Heatmap based on Al engine Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SIS/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTP/HTTP/STCP) Network Application Programming Interface ONNIF Profile S/G/T/M SUNAPI(HTTP API) | | Wide Dynamic Range | 120dB |
| Privacy Masking 32ea, 4point Quadrangle zones Gain Control Low / Middle / High White Balance ATW / AWC / Manual / Indoor / Outdoor LDC Support Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5~1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view (90-/270-) Classified object type: Person/Face Attributes: Not support Support Detection/Shot Analytics Anal | | Digital Noise Reduction | SSNR V , WiseNR II (Based on AI engine) |
| Gain Control White Balance LDC Support Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5~1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view(90~/270~) Classified object type: Person/Face Attributes: Not support Support Detection/Shot Analytics events based on Al engine Analytics Analytics events based on Al engine Motion dection, Object detection, Virtual line(Crossing/Direction, Ovirtual area(Loitering/Intrusion/Enter/Exit) Analytics events Defocus detection, Tampering Virtual area(Appear/Disappear) Business Intelligence People counting, Queue management. Heatmap based on Al engine Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred File upload(image): e-mail/FTP Notification: e-mail Recording: SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) Smart Codec WiseStreamIII Network Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | | Motion Detection | 8ea, 8point Polygonal zones |
| White Balance ATW/AWC / Manual / Indoor / Outdoor LDC Support Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5-1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view(90-/270-) Classified object type: Person/Face Attributes: Not support Support Detection, Not Analytics events based on Al engine - Motion detection, Object detection, Virtual line(crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Dipict detection, Virtual area(Appear/Disappear) Business Intelligence People counting Queue management, Heatmap based on Al engine Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTP/ATTP) Network Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | | Privacy Masking | 32ea, 4point Quadrangle zones |
| Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5-1/12,000sec) | | Gain Control | Low / Middle / High |
| Electronic Shutter Speed Minimum / Maximum / Anti flicker (1/5~1/12,000sec) Digital PTZ Support Video Rotation Flip, Mirror, Hallway view(90-/270-) Classified object type: Person/Face Attributes: Not support Support DetectionShot Analytics events based on Al engine - Motion detection, Object detection, Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defous detection, Virtual area(Appear/Disappear) Business Intelligence People counting, Queue management, Heatmap based on Al engine Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: | | White Balance | ATW / AWC / Manual / Indoor / Outdoor |
| Digital PTZ Video Rotation Flip, Mirror, Hallway view(90-/270-) Classified object type: Person/Face Attributes: Not support Support DetectionShot Analytics events based on Al engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Appear/Disappear) Business Intelligence Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) Network Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | | LDC | Support |
| Video Rotation Flip, Mirror, Hallway view(90-/270-) Operational Classified object type: Person/Face Attributes: Not support Support DetectionShot Analytics events based on Al engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Appear/Disappear) Business Intelligence People counting, Queue management, Heatmap based on Al engine Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) Network Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | | Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1/5~1/12,000sec) |
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| Operational Attributes: Not support Support DetectionShot Analytics events based on Al engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Appear/Disappear) Business Intelligence People counting, Queue management. Heatmap based on Al engine Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) Network Smart Codec WiseStreamIII Network Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | | Video Rotation | Flip, Mirror, Hallway view(90-/270-) |
| Alarm Triggers Analytics, Network disconnect, Alarm input When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) Smart Codec WiseStreamIII Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | Operational | Analytics | Attributes: Not support Support DetectionShot Analytics events based on AI engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual |
| When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) Smart Codec WiseStreamIII Network Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | | Business Intelligence | |
| Alarm Events Bart Codec Application Programming Interface Application Progra | | Alarm Triggers | Analytics, Network disconnect, Alarm input |
| Network Application Programming Interface ONVIF Profile S/G/T/M SUNAPI(HTTP API) | | Alarm Events | File upload(image): e-mail/FTP Notification: e-mail Recording: SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover(PTZ preset, Send message by |
| Application Programming Interface SUNAPI(HTTP API) | | Smart Codec | WiseStreamIII |
| General Memory 2GB RAM, 1GB Flash | Network | Application Programming Interface | |
| | General | Memory | 2GB RAM, 1GB Flash |



| | OS / Firmware Protect | Secure boot, Signed firmware, Firmware encryption |
|----------|------------------------|---|
| | User authentication | Digest Authentication, Prevent brute-force attack |
| | Network authentication | 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) |
| | Secure Communication | HTTPS, SRTP, WSS(Websocket secure) |
| Security | Access Control | Access control based on IP address |
| | Data Protect | Authentication information encryption, ZIP compression encryption |
| | Audit | User Access/System/Event log management |
| | Device ID | Device Certificate(Hanwha Private Root CA) |
| | Secure Storage | SDcard partition encrypt |



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32-inch AI PVM with PIP/PBP functionality



CAD Unit:mm [inch]

