

# PNM-7000VD

2M Multi-Directional Camera

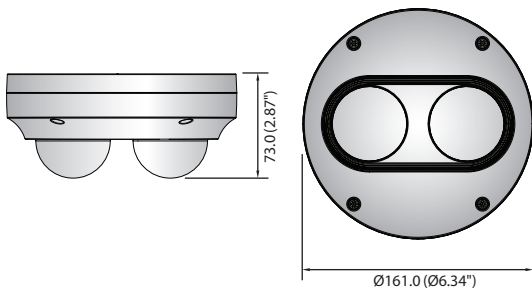


## Key Features

- 2ea x 1920 x 1080 resolution
- Max. 60fps@2M (H.265 / H.264)
- H.265, H.264, MJPEG codec supported
- Day & Night, WDR (150dB)
- Loitering, Directional detection, Fog detection, Motion detection, Tampering
- SD/SDHC/SDXC memory 2 slots (each camera), WiseStreamII Support

## Dimensions

Unit : mm (inch)



## Lens (Optional)



SLA-2M2400D    SLA-2M2800D    SLA-2M3600D    SLA-2M6000D

## Accessories (Optional)



SBP-300LM    SBP-300CM    SBP-300WM    SBP-300WM1    SBP-300PM    SBP-300KM    SBP-300HM6    SBV-158G

## PNM-7000VD

<b>VIDEO</b>	
Video Out	CVBS : 1.0Vpp / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation
<b>OPERATIONAL</b>	
Camera Title	Off / On (Displayed up to 85 characters) - W/W : English / Numeric / Special characters - China : English / Numeric / Special / Chinese characters - Common : Multi-line (Max. 5), Color (Gray / Green / Red / Blue / Black / White), Transparency, Auto scale by resolution
Day & Night	Auto (Electrical) / Color / B/W / Schedule
Backlight Compensation	Off / BLC / HLC (Masking / Dimming), WDR
Wide Dynamic Range	150dB
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	SSNRV (2D + 3D noise filter) (Off / On)
Digital Image Stabilization	Off / On
Defog	Off / Auto / Manual
Motion Detection	Off / On (8ea, 8point polygonal zones)
Privacy Masking	Off / On (32ea, polygonal zones) - Color : Gray / Green / Red / Blue / Black / White - Mosaic
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor (included mercury & Sodium)
Contrast	Level adjustment
LDC (Lens Distortion Correction)	On / Off (5 Levels with min / max)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)
Digital Zoom	24x
Flip / Mirror	Off / On, Hallway view : 90°/270°
Video & Audio Analytics	Tampering, Loitering, Directional detection, Fog & Dust detection, Virtual line, Enter / Exit, (Dis)Appear, Face detection, Motion detection
Alarm Triggers	Motion detection, Video analytics, Network disconnect
Alarm Events	File upload via FTP, E-mail, Notification via E-Mail Local storage (SD / SDHC / SDXC) or NAS recording at event triggers
Pixel Counter	Support
<b>NETWORK</b>	
Ethernet	RJ-45 (10/100/1000BASE-T)
Video Compression Format	H.265/H.264 (MPEG-4 Part 10/AVC) : Main / Baseline / High, MJPEG
Resolution	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.265 / H.264 : 2M Max. 60fps at all resolutions, MJPEG : Max. 30fps
Smart Codec	Manual Mode (area-based : 5EA)
WiseStream II	Support
Video Quality Adjustment	H.265 / H.264, MJPEG : Target Bitrate Level Control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple Streaming (Up to 10 Profiles)
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour
Security	HTTPS(SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1X authentication (EAP-TLS, EAP-LEAP)
Streaming Method	Unicast / Multicast
Max. User Access	20 users at unicast mode
Edge Storage	SD/SDHC/SDXC 2slots (Each) - Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded. Local PC for instant recording
Application Programming Interface	ONVIF Profile S, SUNAPI (HTTP API)
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Web Viewer	Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Non-plugin Webviewer - Supported Browser : Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (Window 64bit only), Apple Safari 11 (Mac OS X only) Plug-in Webviewer - Supported Browser : MS Explore 11, Apple Safari 11 (Mac OS X only)
Central Management Software	SmartViewer, SSM
<b>ENVIRONMENTAL</b>	
Operating Temperature / Humidity	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10
<b>ELECTRICAL</b>	
Input Voltage / Current	PoE (IEEE802.3af, Class3)
Power Consumption	Max. 12.95W (PoE)
<b>MECHANICAL</b>	
Color / Material	Ivory (NCS S 0502-Y) / Metal
Dimensions (WxH)	Ø161.0 x 73.0mm (Ø6.34" x 2.87")
Weight	840g (1.85 lb)

\* The latest product information / specification can be found at hanwha-security.com

\* Design and specifications are subject to change without notice.

\* Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.

# SLA-2M2400D/2800D/3600D/6000D

2MP Optional Lenses for PNM-7000VD



SLA-2M2400D



SLA-2M2800D



SLA-2M3600D



SLA-2M6000D

## Key Features

- 0.055Lux@F2.0 (Color, B/W)
- WDR (150dB)
- 2.4mm fixed lens (SLA-2M2400D)
- 2.8mm fixed lens (SLA-2M2800D)
- 3.6mm fixed lens (SLA-2M3600D)
- 6.0mm fixed lens (SLA-2M6000D)

	SLA-2M2400D	SLA-2M2800D	SLA-2M3600D	SLA-2M6000D
<b>VIDEO</b>				
Imaging Device	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
Total Pixels	1,945(H) x 1,109(V) 2.16M	1,945(H) x 1,109(V) 2.16M	1,945(H) x 1,109(V) 2.16M	1,945(H) x 1,109(V) 2.16M
Effective Pixels	1,945(H) x 1,097(V) 2.13M	1,945(H) x 1,097(V) 2.13M	1,945(H) x 1,097(V) 2.13M	1,945(H) x 1,097(V) 2.13M
Scanning System	Progressive Scan	Progressive Scan	Progressive Scan	Progressive Scan
Min. Illumination	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)	Color : 0.055Lux (F2.0) B/W : 0.055Lux (F2.0)
S / N Ratio	50dB	50dB	50dB	50dB
Wide Dynamic Range	150dB	150dB	150dB	150dB
Day & Night	Electrical	Electrical	Electrical	Electrical
<b>LENS</b>				
Focal Length (Zoom Ratio)	2.4mm	2.8mm	3.6mm	6.0mm
Max. Aperture Ratio	F2.0	F2.0	F2.0	F2.0
Angular Field of View	H: 135.4°, V: 71.2°, D: 161.6°	H: 107.4°, V: 62.2°, D: 122.0°	H: 94.8°, V: 49.3°, D: 114.3°	H: 50.4°, V: 28.8°, D: 58.1°
Lens Type	Fixed focal	Fixed focal	Fixed focal	Fixed focal
<b>MECHANICAL</b>				
Color / Material	Black / Plastic	Black / Plastic	Black / Plastic	Black / Plastic
Dimensions (WxHxD)	Ø35.5 x 27.9mm (1.4" x 1.1")	Ø35.5 x 27.9mm (1.4" x 1.1")	Ø35.5 x 27.9mm (1.4" x 1.1")	Ø35.5 x 27.9mm (1.4" x 1.1")
Weight	27g (0.06 lb)	27g (0.06 lb)	27g (0.06 lb)	27g (0.06 lb)

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