





**Key Features** 



### XND-A8084RV

5MP AI IR Dome Camera



- 3.3~9.3mm (2.8x) motorized varifocal
- Dual NPU for Al-based Image enhancement
- Analytics events based on AI engine :
- Analytics events based on Al engine .
- Object detection (Person/Face/Vehicle/License plate),
- IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion),
- Slip&Fall detection, Face mask detection,
- Social distancing detection, Motion detection
- Business intelligence based on AI engine :
- People/Vehicle/Crowd counting, Queue management, Heatmap
- Support BestShot and full attributes
- Support Dynamic Privacy Masking
- extremeWDR, WiseNR II (Based on AI engine),
- WiseStream(Based on AI engine)
- WiseIR: IR viewable length 40 m (131.23 ft)
- IP52, IK10
- Support Wisepower(Power monitoring, ECO mode)
- Use recycled plastic
- Device certificate(Hanwha Vision Root CA),
- Secure storage
- (Secure element with FIPS 140-3 level3/CC EAL6+ certified), SBOM

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com. Hanwha Vision is formerly known as Hanwha Techwin.





XND-A8084RV

5MP AI IR Dome Camera



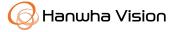
#### **Specifications**

Video     Imaging Device     1/2.8" CMOS       Resolution     2560x1920.2560x1440,1920x1080,1600x1200.1280x750,1024x768,800x600,6400x640x630,320x180       Max. Framerate     H.255/H.254.Max. 305p2/32515p5(dott/250Hz)       Min.Fillumination     Color: DALux/F1.3,1/30xec, 30RE)       BWF: 0.004Lux/F1.3, 1/30xec, 30RE)     DBWF: 0.004Lux/F1.3, 1/30xec, 30RE)       Color: DALux/F1.3, 1/30xec, 30RE)     DBWF: 0.004Lux/F1.3, 1/30xec, 30RE)       Min. Illumination     Color: DALux/F1.3, 1/30xec, 30RE)       Color: DALux/F1.3, 1/30xec, 30RE)     DLux/RELED on)       Video Out     USB: Micro USB Type C for installation       Lens     Focal Length (Zoam Ratio)       Focal Length (Zoam Ratio)     3.3-9.3mm(2.8x) motorized varifocal       Max, Aperture Ratio     F1.3(Wide)-33'(Tele)       Min. Object Distance     0.5m(1.64ft)       Focus Control     Simple focus, manual       Lens Type     P-iris(R corrected)       Pan / Titl / Rotate     Pan       Pan / Titl / Rotate Range     0''-360'' /0''-75''/0''-355''       Operational     Camera Title       Displayed up to 85 characters     Day N Mght       Auto(CR)     Backlight Compensation       BLC, HLC, WDR, SSDR     Wide Dynamic Range       Digital Inside Reduction     Styport       Defog     Support       Morie     Stypoption Stones   <		
Resolution     2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x720, 1024x768, 800x600, 640x       Max. Framerate     H265/H240, 320x180       Max. Framerate     H265/H241, Max, 200ps22(bps(60Hz/50Hz))       Min. Illumination     Color: 0.04Lux(F1.3, 1/30sec, 301RE) (buck(ILED on)       Video Out     USB: Micro USB Type C for installation       Lens     Encode       Focal Length (2com Ratio)     3.3-9.3mm(2.8x) motorized varifocal       Max. Aperture Ratio     F1.3(Wide)-F2.3(Tele)       Angular Field of View     H:97(Wide)-37(Tele)       Min. Object Distance     0.5ml(1.4dt)       Focus Control     Simple focus, manual       Lens Type     P-iris(IR corrected)       Pan / Tilt / Rotate Range     0°-360° / 0°-75° / 0°-355°       Operational     Elpslayed up to 85 characters       Day A Might     Auto(CR)       Backlight Compensation     SUPlayed up to 85 characters       Day A Might     Auto(CR)       Backlight Compensation     SUPlayed up to 85 characters       Day A Might     Auto(CR)       Backlight Compensation     SUPlayed up to 85 characters       Day A Might     Auto(CR)       Backlight Compensation     SUPlayed NU Mice Characters       Day A Might     Auto(CR)       Backlight Compensation     SUPlayed NU Mice Characters       Day A Might     Auto(CR	Video	
440x360.320x240.320x180       Max. Framerate     H.265/H.264: Max.30fps/25fps/60/H/50H2)       Min. Illumination     Even 2004/LxfF1.3.1/30sec.30RE). Dux(IR LED on)       Video Out     USB: Micro USB Type C for installation       U     USB: Micro USB Type C for installation       Max. Aperture Ratio     S1-3/Wide)-F2.3/Tele)       Max. Aperture Ratio     S13/Wide)-F2.3/Tele)       Min. Object Distance     O.5/MI.64ff)       Pocus Control     Sign focus manual       Lens Type     P-iris(IR corrected)       Pan / Til / Rotate Range     0*-360* / 0*-75* / 0*-355*       Pan / Til / Rotate Range     0*-360* / 0*-75* / 0*-355*       Operational     Ecter Standards       U     Displayed up to 85 characters       Operational     Ecter Standards       Backlight Compensation     SLPH (L, WUR, SSDR       Wide Dynamic Range     Support       Mich Displayed Up to 85 characters       Digital Moise Reduction	Imaging Device	1/2.8" CMOS
MJPEG: Max. 30fps(G5MP Max. 5fps)  Min. Illumination  MUEG: Max. 30fps(G5MP Max. 5fps)  Cole: C0.04Lux(F1.3, 1/30sec, 30IRE) W: 0.004Lux(F1.3, 1/30sec, 30IRE) W: 0.004Lux(F1.3, 1/30sec, 30IRE) W: 0.004Lux(F1.3, 1/30sec, 30IRE) USB: Micro USB Type C for installation USB: Micro USB Type C for installation  Example Control Contro Control Control Control Control Control Contro Control Contro	Resolution	2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480 640x360, 320x240, 320x180
BW: 0.004Lux(F1.3. 1/30sec, 30IRE), 0Lux(IR LED on)       Video Out     USB: Micro USB Type C for installation       Lens     Focal Length (Zoom Ratio)     3.3-9.3mm(2.8x) motorized varifocal       Max. Aperture Ratio     F1.3(Wide)-F2.3(Tele)       Angular Field of View     H: 99'(Wide)-31'(Tele)       Distribution     Distribution       Min. Object Distance     0.5m(1.64ft)       Focus Control     Simple focus, manual       Lens Type     P-iris(IR corrected)       Pan / Tilt / Rotate     0'-360' / 0'-75' / 0'-355'       Operational     Or-360' / 0'-75' / 0'-355'       Operational     Backlight Compensation       Operational     Displayed up to 85 characters       Day & Night     Auto(ICR)       Backlight Compensation     BLC, HLC, WDR, SSDR       Wide Dynamic Range     1200B       Digital Noise Reduction     SUPport       Defog     Support       Motion Detection     8ea.8point polygonal zones       Privacy Masking     22ea.8point polygonal zones       - Color: gray green/red/blue/black/white/purple/yellow       - Color: gray green/red/bl	Max. Framerate	
Lens         Focal Length (Zoom Ratio)       3.3-9.3mm(2.8x) motorized varifocal         Max. Aperture Ratio       F1.3(Wide)-F2.3(Tele)         Angular Field of View       H:99°(Wide)-33°(Tele)         Min. Object Distance       0.5m(1.44ft)         Focus Control       Simple focus, manual         Lens Type       P-iris(IR corrected)         Pan / Tilt / Rotate       0-''''''''''''''''''''''''''''''''''''	Min. Illumination	
Focal Length (Zoom Ratio)3.3-9.3mm(2.8x) motorized varifocalMax. Aperture RatioF1.3(Wide)-F2.3(Tele) V.71'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(Wide)-23'(Tele) V.7'(	Video Out	USB: Micro USB Type C for installation
Max. Aperure RatioF1.3(Wide)-F2.3(Tele)Angular Field of ViewH: 99'(Wide)-31'(Tele) v: 71'(Wide)-22'(Tele) D: 133'(Wide)-39'(Tele) D: 133'(Wide)-39'(Tele)Min. Object Distance0.5m(1.64ft)Focus ControlSimple focus, manual Lens TypePan / Tilt / RotateP-iris(IR corrected)Pan / Tilt / Rotate Range0°~360° / 0°~75° / 0°-355°Operational0°~360° / 0°~75° / 0°-355°Camera TitleDisplayed up to 85 charactersDay & NightAuto(ICR)Backlight CompensationBLC, HLC, WDR, SSDRWide Dynamic Range120dBDigital Noise ReductionSSNR V, WiseNR II (Based on Al engine)Digital Noise ReductionSupportMotion Detection8a.8 point polygonal zonesPrivacy Masking32ea.8 point polygonal zonesPrivacy MaskingS2ea.8 point polygo	Lens	
Angular Field of ViewH: 99°(Wide)-31°(Tele) V: 71°(Wide)-32°(Tele) D: 133°(Wide)-39°(Tele)Min. Object Distance0.5m(1.64ft)Focus ControlSimple focus, manualLens TypeP-iris(IR corrected)Pan / Tilt / Rotate0°~360° / 0°~75° / 0°~355°Pan / Tilt / Rotate Range0°~360° / 0°~75° / 0°~355°OperationalCamera TitleCamera TitleDisplayed up to 85 charactersDay & NightAuto(ICR)Backlight CompensationBLC, HLC, WDR, SSDRWide Dynamic Range120dBDigital Noise ReductionSSNR V, WiseNR II (Based on Al engine)Digital Image StabilizationSupportStoro Detection8ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zonesPrivacy MaskingGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorUCSupport(Fill/Stretch mode)	Focal Length (Zoom Ratio)	3.3~9.3mm(2.8x) motorized varifocal
": 7:1" (Wide)-23" (Tele) D: 133" (Wide)-39" (Tele)Min. Object Distance0.5m(1.64ft)Focus ControlSimple focus, manualLens TypeP-iris (IR corrected)Pan / Tilt / Rotate0"-360" / 0"-75" / 0"-355"Pan / Tilt / Rotate Range0"-360" / 0"-75" / 0"-355"OperationalDisplayed up to 85 charactersOparatified CompensationBLC, HLC, WDR, SSDRWide Dynamic Range1204BDigital Noise ReductionSLN V, WiseNR II (Based on Al engine)Digital Image StabilizationSupportMotion Detection8ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zonesOynamic Privacy Masking32ea, 8point polygonal zonesOporationalColor: grav/green/red/blue/black/white/purple/yellow - MosaicDynamic Privacy Masking32ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: grav/green/red/blue/black/white/purple/yellow - MosaicDynamic Privacy Mask(Based on Al engine) - Color: grav/green/red/blue/black/white/purple/yellow - MosaicMotaicOff Max Gain / ManualWhite BalanceOff / Max Gain / ManualWhite BalanceMinimum / Maximum / Anti flicker(2-1/30.000sec)	Max. Aperture Ratio	F1.3(Wide)~F2.3(Tele)
Focus Control       Simple focus, manual         Lens Type       P-iris(IR corrected)         Pan / Tilt / Rotate       Pan / Tilt / Rotate Range         Pan / Tilt / Rotate Range       0°-360° / 0°-75° / 0°-355°         Operational       Concerned Tile         Day & Night       Auto(ICR)         Backlight Compensation       BLC, HLC, WDR, SSDR         Wide Dynamic Range       120dB         Digital Noise Reduction       SSNR V, WiseNR II (Based on Al engine)         Digital Noise Reduction       Support         Motion Detection       8ace, Apoint polygonal zones         - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic       Mosaic         Privacy Masking       32ea, Bpoint polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic         Gain Control       Off / Max Gain / Manual         White Balance       ATW / NarrowATW / AWC / Manual / Indoor / Outdoor         LDC       Support(Fill/Stretch mode)         Electronic Shutter Speed       Minimum / Anti flicker(2-1/30.000sec)	Angular Field of View	V: 71°(Wide)~23°(Tele)
Lens Type       P-iris(IR corrected)         Pan / Tilt / Rotate       0°~360° / 0°~75° / 0°-355°         Pan / Tilt / Rotate Range       0°~360° / 0°-75° / 0°-355°         Operational       0         Camera Title       Displayed up to 85 characters         Day & Night       Auto(ICR)         Backlight Compensation       BLC, HLC, WDR SSDR         Wide Dynamic Range       120dB         Digital Noise Reduction       SSNR V, WiseNR II (Based on AI engine)         Digital Image Stabilization       Support         Motion Detection       8ea. 8point polygonal zones         Privacy Masking       32ea. 8point polygonal zones         - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic       Color: gray/green/red/blue/black/white/purple/yellow - Mosaic         Gain Control       Off / Max Gain / Manual         White Balance       ATW / NarrowATW / AWC / Manual / Indoor / Outdoor         LDC       Support(Fill/Stretch mode)         Electronic Shutter Speed       Minimum / Maximum / Anti flicker(2-1/30.000sec)	Min. Object Distance	0.5m(1.64ft)
Pan / Tilk / Rotate         Pan / Tilk / Rotate         Pan / Tilk / Rotate Range       0°-360° / 0°-75° / 0°-355°         Pan / Tilk / Rotate Range       0°-360° / 0°-75° / 0°-355°         Operational	Focus Control	Simple focus, manual
Pan / Tilt / Rotate Range       0°-360° / 0°-75° / 0°-355°         Operational       Displayed up to 85 characters         Camera Title       Displayed up to 85 characters         Day & Night       Auto(ICR)         Backlight Compensation       BLC, HLC, WDR, SSDR         Wide Dynamic Range       120dB         Digital Noise Reduction       SSNR V, WiseNR II (Based on Al engine)         Digital Image Stabilization       Support         Motion Detection       Bea, 8point polygonal zones         Privacy Masking       32ea, 8point polygonal zones         Oron: gray/green/red/blue/black/white/purple/yellow - Mosaic       Mosaic         Gain Control       Off / Max Gain / Manual         White Balance       ATW / NarrowATW / AWC / Manual / Indoor / Outdoor         LDC       Support(Fill/Stretch mode)         Electronic Shutter Speed       Minimum / Maximum / Anti flicker(2~1/30,000sec)	Lens Type	P-iris(IR corrected)
Operational         Camera Title       Displayed up to 85 characters         Day & Night       Auto(ICR)         Backlight Compensation       BLC, HLC, WDR, SSDR         Wide Dynamic Range       120dB         Digital Noise Reduction       SSNR V, WiseNR II (Based on AI engine)         Digital Image Stabilization       Support         Motion Detection       Bea, 8point polygonal zones         Privacy Masking       22ea, 8point polygonal zones         - color: gray/green/red/blue/black/white/purple/yellow         - Mosaic       Dynamic Privacy Mask(Based on AI engine)         Gain Control       Off / Max Gain / Manual         White Balance       ATW / NarrowATW / AWC / Manual / Indoor / Outdoor         LDC       Support(Fill/Stretch mode)         Electronic Shutter Speed       Minimum / Maximum / Anti flicker(2-1/30.000sec)	Pan / Tilt / Rotate	
Camera TitleDisplayed up to 85 charactersDay & NightAuto(ICR)Backlight CompensationBLC, HLC, WDR, SSDRWide Dynamic Range120dBDigital Noise ReductionSSNR V, WiseNR II (Based on Al engine)Digital Image StabilizationSupportMotion DetectionBea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Anti flicker(2~1/30,000sec)	Pan / Tilt / Rotate Range	0°~360° / 0°~75° / 0°~355°
Day & NightAuto(ICR)Backlight CompensationBLC, HLC, WDR, SSDRWide Dynamic Range120dBDigital Noise ReductionSSNR V, WiseNR II (Based on AI engine)Digital Image StabilizationSupportMotion DetectionBea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Anti flicker(2~1/30,000sec)	Operational	
Backlight CompensationBLC, HLC, WDR, SSDRWide Dynamic Range120dBDigital Noise ReductionSSNR V, WiseNR II (Based on AI engine)Digital Image StabilizationSupportDefogSupportMotion Detection8ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Camera Title	Displayed up to 85 characters
Wide Dynamic Range120dBDigital Noise ReductionSSNR V. WiseNR II (Based on AI engine)Digital Image StabilizationSupportDefogSupportMotion Detection8ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - Color: gray/green/red/blue/black/white/purple/yellow - Color: gray/green/red/blue/black/white/purple/yellowGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Day & Night	Auto(ICR)
Digital Noise ReductionSSNR V, WiseNR II (Based on AI engine)Digital Image StabilizationSupportDefogSupportMotion DetectionBea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Backlight Compensation	BLC, HLC, WDR, SSDR
Digital Image StabilizationSupportDefogSupportMotion Detection8ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - MosaicPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Wide Dynamic Range	120dB
DefogSupportMotion Detection8ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - MosaicDynamic Privacy Mask(Based on AI engine) - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)
Motion Detection8ea, 8point polygonal zonesPrivacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic Dynamic Privacy Mask(Based on Al engine) - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Digital Image Stabilization	Support
Privacy Masking32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic Dynamic Privacy Mask(Based on Al engine) - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Defog	Support
- Color: gray/green/red/blue/black/white/purple/yellow - Mosaic Dynamic Privacy Mask(Based on Al engine) - Color: gray/green/red/blue/black/white/purple/yellow - MosaicGain ControlOff / Max Gain / ManualWhite BalanceATW / NarrowATW / AWC / Manual / Indoor / OutdoorLDCSupport(Fill/Stretch mode)Electronic Shutter SpeedMinimum / Maximum / Anti flicker(2~1/30,000sec)	Motion Detection	8ea, 8point polygonal zones
White Balance     ATW / NarrowATW / AWC / Manual / Indoor / Outdoor       LDC     Support(Fill/Stretch mode)       Electronic Shutter Speed     Minimum / Maximum / Anti flicker(2~1/30,000sec)	Privacy Masking	- Color: gray/green/red/blue/black/white/purple/yellow - Mosaic Dynamic Privacy Mask(Based on Al engine) - Color: gray/green/red/blue/black/white/purple/yellow
LDC     Support(Fill/Stretch mode)       Electronic Shutter Speed     Minimum / Maximum / Anti flicker(2~1/30,000sec)	Gain Control	Off / Max Gain / Manual
Electronic Shutter Speed Minimum / Maximum / Anti flicker(2~1/30,000sec)	White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
	LDC	Support(Fill/Stretch mode)
	Electronic Shutter Speed	

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com.

Hanwha Vision is formerly known as Hanwha Techwin.

## X series XND-A8084RV



Video Datation	$Flip_{restroy} = hollow(00^\circ/270^\circ)$
Video Rotation	Flip, mirror, hallway view(90°/270°)
Analytics	Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle)/License plate Attributes: Person(Gender, Clothing top/bottom color, Bag), Face(Age, Gender, Mask, Glasses), Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color) Support BestShot
	Analytics events based on Al engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Slip & fall detection, Face mask detection, Social distancing detection
	Analytics events - Defocus detection, Tampering, Shock detection, Audio detection
Business Intelligence	Based on Al engine: People/Vehicle/Crowd counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports *Support extra alarm I/O via optional I/O box
Alarm Triggers	Analytics, Network disconnection, Alarm input, Time schedule, MQTT subscription, Day/Night, Storage disruption
Alarm Events	When alarm trigger occurred - File upload(image): e-mail/FTP/SFTP - File upload(video clip): FTP/SFTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback(WAV, MP3) - MQTT: publication
Audio In	Selectable(mic in/line in)
Audio Out	Line out
Light Type	IR LED
Light Viewable Length	WiseIR 40m(131.23ft)
IR Wavelength	850nm
IR Wavelength Network	850nm
	850nm Metal shielded RJ-45(10/100BASE-T)
Network	
Network Ethernet	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High
Network Ethernet Video Compression	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps)
Network Ethernet Video Compression Audio Compression	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps)
Network Ethernet Video Compression Audio Compression Smart Codec	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR
Network         Ethernet         Video Compression         Audio Compression         Smart Codec         Bitrate Control	Metal shielded RJ-45(10/100BASE-T)         H.265/H.264: Main/Baseline/High         MJPEG         G.711(PCM): 8kHz(64Kbps)         G.726(ADPCM): 8kHz(16/24/32/40Kbps)         AAC-LC: 16kHz(48Kbps)         OPUS: 48kHz(64Kbps)         WiseStream(Based on AI engine)         H.264/H.265: CBR or VBR         MJPEG: VBR         Unicast(20 users) / Multicast
Network         Ethernet         Video Compression         Audio Compression         Smart Codec         Bitrate Control         Streaming	Metal shielded RJ-45(10/100BASE-T)         H.265/H.264: Main/Baseline/High         MJPEG         G.711(PCM): 8kHz(64Kbps)         G.726(ADPCM): 8kHz(16/24/32/40Kbps)         AAC-LC: 16kHz(48Kbps)         OPUS: 48kHz(64Kbps)         WiseStream(Based on Al engine)         H.264/H.265: CBR or VBR         MJPEG: VBR         Unicast(20 users) / Multicast         Multiple streaming(Up to 5 profiles, 3 virtual channel support)         IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, QOS, UPnP, Bonjour,
Network         Ethernet         Video Compression         Audio Compression         Smart Codec         Bitrate Control         Streaming         Protocol	Metal shielded RJ-45(10/100BASE-T)         H.265/H.264: Main/Baseline/High         MJPEG         G.711(PCM): 8kHz(64Kbps)         G.726(ADPCM): 8kHz(16/24/32/40Kbps)         AAC-LC: 16kHz(48Kbps)         OPUS: 48kHz(64Kbps)         WiseStream(Based on AI engine)         H.264/H.265: CBR or VBR         MJPEG: VBR         Unicast(20 users) / Multicast         Multiple streaming(Up to 5 profiles, 3 virtual channel support)         IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPY1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog         ONVIF Profile S/G/T/M         SUNAPI(HTTP API)
Network         Ethernet         Video Compression         Audio Compression         Smart Codec         Bitrate Control         Streaming         Protocol         Application Programming Interface	Metal shielded RJ-45(10/100BASE-T)         H.265/H.264: Main/Baseline/High         MJPEG         G.711(PCM): 8kHz(64Kbps)         G.726(ADPCM): 8kHz(16/24/32/40Kbps)         AAC-LC: 16kHz(48Kbps)         OPUS: 48kHz(64Kbps)         WiseStream(Based on AI engine)         H.264/H.265: CBR or VBR         MJPEG: VBR         Unicast(20 users) / Multicast         Multiple streaming(Up to 5 profiles, 3 virtual channel support)         IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPY1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog         ONVIF Profile S/G/T/M         SUNAPI(HTTP API)
Network         Ethernet         Video Compression         Audio Compression         Smart Codec         Bitrate Control         Streaming         Protocol         Application Programming Interface         Security	Metal shielded RJ-45(10/100BASE-T)         H.265/H.264: Main/Baseline/High         MJPEG         G.711(PCM): 8kHz(64Kbps)         G.726(ADPCM): 8kHz(16/24/32/40Kbps)         AAC-LC: 16kHz(48Kbps)         OPUS: 48kHz(64Kbps)         OPUS: 48kHz(64Kbps)         WiseStream(Based on Al engine)         H.264/H.265: CBR or VBR         MJPEG: VBR         Unicast(20 users) / Multicast         Multiple streaming(Up to 5 profiles, 3 virtual channel support)         IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, ISMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog         ONVIF Profile S/G/T/M         SUNAPI(HTTP API)         Hanwha Vision Open Platform
Network         Ethernet         Video Compression         Audio Compression         Smart Codec         Bitrate Control         Streaming         Protocol         Application Programming Interface         Security         OS / Firmware Protect	Metal shielded RJ-45(10/100BASE-T)         H.265/H.264: Main/Baseline/High         MJPEG         G.711(PCM): 8kHz(64Kbps)         G.726(ADPCM): 8kHz(16/24/32/40Kbps)         AAC-LC: 16kHz(48Kbps)         OPUS: 48kHz(64Kbps)         OPUS: 48kHz(64Kbps)         WiseStream(Based on Al engine)         H.264/H.265: CBR or VBR         MJPEG: VBR         Unicast(20 users) / Multicast         Multiple streaming(Up to 5 profiles, 3 virtual channel support)         IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog         ONVIF Profile S/G/T/M         SUNAPI(HTTP API)         Hanwha Vision Open Platform
Network         Ethernet         Video Compression         Audio Compression         Smart Codec         Bitrate Control         Streaming         Protocol         Application Programming Interface         Security         OS / Firmware Protect         User authentication	Metal shielded RJ-45(10/100BASE-T)         H.265/H.264: Main/Baseline/High         MJPEG         G.711(PCM): 8kHz(64Kbps)         G.726(ADPCM): 8kHz(16/24/32/40Kbps)         AAC-LC: 16kHz(48Kbps)         OPUS: 48kHz(64Kbps)         OPUS: 48kHz(64Kbps)         WiseStream(Based on Al engine)         H.264/H.265: CBR or VBR         MJPEG: VBR         Unicast(20 users) / Multicast         Multiple streaming(Up to 5 profiles, 3 virtual channel support)         IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP,         FTP/SFTP, SMTP(StarTLS), ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour,         LDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog         ONVIF Profile S/G/T/M         SUNAPI(HTTP API)         Hanwha Vision Open Platform         Encrypted Firmware, Secure boot, Signed Firmware         Digest Authentication, Prevent brute-force attack

Access Control IP-based access control, MAC-based access control, Auto logout

Data Protect Encryption Credentials, Encrypt compress for live recording file export

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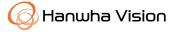
# X series XND-A8084RV



Audit	Access / System / Event Log management
Device ID	Device Certificate(Hanwha vision Root CA)
Secure Storage	Secure element, SDcard partition encrypt
Supply Chain Security	SBOM
Security Certificate	ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+)
General	
Webpage Language	English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 1slot 1TB
Memory	4GB RAM, 8GB eMMC
Environmental & Electrical	
Operating Temperature / Humidity	-10°C~+50°C(-14°F~+122°F) / 0~100%RH(Condensing) Humidity control with AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
EPA(Effective Projected Area)	0.02m <sup>2</sup>
Certification	IP52, IK10
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	PoE: Max. 9.4W, typical 7.0W Support Wisepower - Power monitoring(Max./Current/Avg.) - ECO mode
Mechanical	
Color / Material	White / Aluminum+PC Bubble: Hard-coated dome
Material Management	RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018) REACH(Regulation (EC) No. 1907/2006) Conflict mineral policy(Section 1502 of US Dodd Frank Act) Recycled plastic: 10.72%
RAL Code	RAL9003
Product Dimensions / Weight	ø160x118mm(6.30x4.65"), 1,010g(2.23lb)
Compatible Conduit hole / Gangbox	12.7mm(1/2")(M20) Single, double, 4" octagon, 4" square
Certifications & Standards	
EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A KS C 9832 Class A, KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP52, IEC/EN 62262 IK10, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78
Compatible Models	
Hanging Adaptor	SBP-160HMW1
Back Box	SBV-180BW, SBV-180WW
Ceiling Mount (Assy)	SBP-150CMI, SBP-300CMI, SBP-300CMW1, SBP-900CMW, SBP-300CMTW, SBP-300CMTS
Ceiling Mount (Single Unit)	SBP-180CMB, SBP-140CMB, SBP-180CMS, SBP-900CMP, SBP-300CMP, SBP-150CMP, SBP-C15P, SBF C15H

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# X series XND-A8084RV



Wall Mount	SBP-160WMW1, SBP-400WMW, SBP-250WMW, SBP-300WMW, SBP-300WMW1
Pole Mount	SBD-180PMW, SBP-300PMW2
In-ceiling Mount	SHD-1600FPW, SHD-1600FW
Corner Mount	SBP-156KMW, SBP-300KMW1
Parapet Mount	SBP-156LMW1, SBP-300LMW
Tilt Mount	SBP-160TMW1
Cabinet	SBP-150NBW, SBP-300NBW
Interface Box	SPM-4210
Other Compatible Models	SPP-C7400, SPB-VAN88W, SBP-140CMT, SBP-115PFA
DORI (FN62676-4 standard)	

DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 43.7m(143.47ft) / Tele: 184.6m(605.71ft)
Observe (63PPM/ 19PPF)	Wide: 17.5m(57.39ft) / Tele: 73.8m(242.29ft)
Recognize (125PPM/ 38PPF)	Wide: 8.7m(28.69ft) / Tele: 36.9m(121.14ft)
Identify (250PPM/ 76PPF)	Wide: 4.4m(14.35ft) / Tele: 18.5m(60.57ft)

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