





## PNV-A6081R-E2T

2MP Camera with built-in 2TB Rugged SSD











#### **Key Features**

- Maximum 2MP resolution, Up to 120fps
- Color: 0.007Lux (F1.3, 1/30sec, 30IRE), BW: 0.0007Lux (F1.3, 1/30sec, 30IRE)
- H.265, H.264, MJPEG, WisestreamIII
- SSD 2TB included
- TPM with FIPS 140-2 level2, Secure boot, Verify firmware forgery
- Video Analytics based on Al
- Object detection and classification (Person, Face, Vehicle, License plate)
- Support Attributes, BestShot
- IP66, IP67, IP6K9K, IK10, NEMA4X
- Connect and record up to 5 additional cameras
- Pre-licensed with 1x Wave channel, purchase additional licenses to suit number of connected cameras



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### **Specifications**

Video	
Imaging Device	1/2" CMOS
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	H.265/H.264: Max. 60/50fps(60Hz/50Hz, AI analytics on), Max. 120/100fps(60Hz/50Hz, AI analytics off) MJPEG: Max. 15fps/12fps(60Hz/50Hz)
Min. Illumination	Color: 0.007Lux(F1.3, 1/30sec, 30IRE) BW: 0.0007Lux(F1.3, 1/30sec, 30IRE), 0Lux(IR LED on), 30/25fps
	Color: 0.014Lux(F1.3, 1/60sec, 30IRE) BW: 0.0014Lux(F1.3, 1/60sec, 30IRE), 0Lux(IR LED on), 60/50fps
	Color: 0.028Lux(F1.3, 1/120sec, 30IRE) BW: 0.0028Lux(F1.3, 1/120sec, 30IRE), 0Lux(IR LED on), 120/100fps
Video Out	CVBS: $1.0 \text{ Vp-p} / 75\Omega$ composite, $720x480(N)$ , $720x576(P)$ for installation
Lens	
Focal Length (Zoom Ratio)	4.38~9.33mm(2.13x) motorized varifocal
Max. Aperture Ratio	F1.3(Wide)~F2.15(Tele)
Angular Field of View	H: 104°(Wide)~44°(Tele) V: 55°(Wide)~24°(Tele) D: 124°(Wide)~51°(Tele)
Min. Object Distance	0.5m(1.64ft)
Focus Control	Simple focus
Lens Type	P-iris(IR corrected)
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / 0°~85° / 0°~355°
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	WiseNR II (Based on Al engine), SSNR V
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	6ea, Rectangular zones - Color: Gray/Black/White
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Prefer / Anti flicker(1/5~1/12,000sec) Prefer shutter control(Based on Al engine)

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.



Analytics  Classified object type: Person/Exec/Nethol-Ulcrone plate Attributes Person/Gender, Color and Bage, Encode, Gender, Mask and Glasses), Vehicle(Type: attributes Person/Gender, Color and Bage, Encode, Gender, Mask and Glasses), Vehicle(Type: attributes Person/Gender, Color and Bage), Encode, Gender, Mask and Glasses), Vehicle(Type: attributes Person/Gender, Color) Support Descholor, Social distancing detection. Wirtual area* "Lottering/Intrusion/Enter/Exit), Face analytics events — Defocus detection. Motion detection, Tempering, Audio detection, Sound classification, Shock detection, Virtual area* (Appear) Chappear)  **Some of the wideo analytics only works with people and vehicle detection  Alarm I/O  Alarm I/O  Alarm Triggers  Analytics, Network disconnect, Alarm input. App event, Time schedule, MQTT subscription  When alarm rigger occurred  - File upload (Image): e-mail/FTP - Notification: e-mail - Audio to plus playback - MQTT: publication  Audio 101  Alarm output - Audio to plus playback - MQTT: publication  Audio 102  **Network  Tell encoder  Metal shielded RJ-45(10/100/1000/BASE-T)  Network  **Ethernet  Metal shielded RJ-45(10/100/1000/BASE-T)  **Video Compression  Audio Compr	Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Alarm Triggers Analytics, Network disconnect, Alarm input App event, Time schedule, MQTT subscription Alarm Events When alarm trigger occurred File upload(filage): e-mail/FTP - Notification: e-mail - Alarm output - Handower PT2 preset, send message by HTTP/HTTPS/TCP - Audio (pi palysback - MQTT: publication  Audio 10  Audio 10  Line out IR Viewable Length  Network  Ethernet Metal shielded RJ-45(10/100/1000BASE-T)  Video Compression H. 265/H. 264: Main/High, MIPEG  Audio Compression H. 265/H. 264: Main/High, MIPEG  Audio Compression G. 2741: Halw (G. 725 selectable G. 726 (Albrich, 244) S	Analytics	Attributes: Person (Gender, Color and Bag), Face (Age, Gender, Mask and Glasses), Vehicle (Type: car/bus/truck/motorcycle/bicycle and Color) Support BestShot per object Analytics events based on Al engine - Object detection, Virtual line* (Crossing/Direction), Virtual area* (Loitering/Intrusion/Enter/Exit), Face mask detection, Social distancing detection Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area (Appear/Disappear)
Alarm Events  When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Alam outpit - Audio (clip playback - MQTT: publication - MQTT: pub	Alarm I/O	Input 1ea / Output 1ea
File upload(image): e-mail/FTP -Notification: e-mail -Alarm output -Handwer: PTIZ preset send message by HTTP/HTTPS/TCP -Audio clip playback -MQTT: publication  Audio Out Ine out  IR Viewable Length 40m(131.23ft)  Network  Ethernet Metal shielded RJ-45(10/100/1000BASE-T) Video Compression H.265/H.264: Main/High, MJPEG Audio Compression G.711 u-law /G.726 selectable G.726 (ADPCM) BKH2. G.713 RKH2 G.726 - TSKPS - AUROS - SKYPS - AUROS  Smart Codec Manua(Sea area). WisseStreamlil  Bitrate Control H.264/H.265: CBR or VBR MJPEG VBR  Streaming Unicaté users) / Multicast Multiple streaming(Up to 5 profiles)  Frotocol BMA (Sea Sea). WisseStreamlil  BY DEPORT OF SMPPL / MGE STREAM ON ST	Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
Audio Out         Line out           IR Viewable Length         40m(131.23ft)           Network         Ethernet         Metal shielded RJ-45(10/100/1000BASE-T)           Video Compression         H.265/H.264: Main/High, MJPEG           Audio Compression         G.711 u-law /G.726 Selectable G.726(ApDr.M) BRHz, G.711 BKHz G.726 Selectable G.726(ApDr.M) BRHz, G.711 BKHz G.726 Selectable G.726 S	Alarm Events	- File upload(image): e-mail/FTP - Notification: e-mail - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback
Network  Ethernet Metal shielded RJ-45(10/100/1000BASE-T) Video Compression H.265/H.264: Main/High MJPEG Audio Compression G.711 u-law, IG.726 Selectable G.726:1A(DPCM) BKHz, G.711 BKHz G.726: ABKDp. 32KDps. 40KDps AAC-LC: 48KDps at 16KHz Smart Codec Manual(Sea area.), WiseStreamIII Bitrate Control H.264/H.265: CBR or VBR MJPEG: VBR Streaming Unicast(6 users) / Multicast Multiple streaming(Up to 5 profiles) Protocol PP-4, IP-6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SMMPu1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT  Security TPM 2.0(FIPS 140-2 level 2) HTTPS(SSL), Login Authentication IP Address Filtering User access log B02.1X Authentication (ICAP-TLS, EAP-LEAP) Device Certificate/Hanwha Private Root CA) Secure Boot, Signed firmware  Application Programming Interface ONUF Profiles S/TM SUNAP(IHTT AP)  General  Webpage Language Finglish, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage 2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - up to 6 camera when host camera use Al mode	Audio In	Selectable(mic in/line in)
Network  Ethernet Metal shielded RJ-45(10/100/1000BASE-T)  Video Compression H.265/H.264- Main/High, MJPEG  Audio Compression G.711 u-law /G.726 Selectable G.726 (ADPCM) BKHz G.711 BKHz G.726 SHOPEM, BKHZ G.72	Audio Out	Line out
Ethernet         Metal shielded RJ-45(10/100/1000BASE-T)           Video Compression         H.265/H.264: Main/High, MJPEG           Audio Compression         G.711 u-law /G.726 Selectable G.726 (ADPCM) BKHz, G.711 BKHz G.721 BKHz G.726 i KKbps, 24Kbps, 34Xbps, 40Kbps AAC-Lc: 48Kbps at 16KHz           Smart Codec         Manual(Sea area), WiseStreamIII           Bitrate Control         H.264/H.265: CBR or VBR MJPEG: VBR           Streaming         Unicast(6 users) / Multicast Multiple streaming(Upto 5 profiles)           Protocol         IPV4, IPV6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Uncast), MQTT           Security         TPM 2.0(FIPS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication PAddress Filtering User access log User access log User access log User Address Filtering User access log User access log User Address Filtering User Address Filtering User access log User Address Filtering	IR Viewable Length	40m(131.23ft)
Video Compression       H.265/H.264: Main/High, MJPEG         Audio Compression       G.711 u-law /G.726 Selectable G.726 (ADPCM) 8HKIz, G.711 8KHz G.716 SKHbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz         Smart Codec       Manual(5ea area), WiseStreamIII         Bitrate Control       H.264/H.265: CBR or VBR M.PEG: VBR         Streaming       Unicast(6 users) / Multicast Multiple streaming(Up to 5 profiles)         Protocol       IPv4_IPv5_ CTCP/P, UDP/JP, RTP(IUDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, SSTJ/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT         Security       TPM 2.0(IPpS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 800.1 X uthentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA) Secure Boot, Signed firmware         Application Programming Interface       ONVIF Profile S/T/M SUNAPI(HTTP API)         General       English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian         Edge Storage       2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 3 3Mbps	Network	
Audio Compression  G.711 u-law /G.726 Selectable G.726(ADPCM) 8kHz. G.711 8kHz G.726(ADPCM) 8kHz. G.711 8kHz G.726 KADPCM) 8kHz. G.711 8kHz G.726 KADPCM) 8kHz. G.711 8kHz G.726 KADPCM AAC-LC: 48kbps at 16kHz  Smart Codec  Manual(Sea area), WiseStreamIII  Bitrate Control  H.264/H.265: CBR or VBR M.JPEG: VBR  Streaming  Unicast(6 users) / Multicast Multiple streaming(Up to 5 profiles)  Protocol  IPv4, IPv6, TCP/IP, UDP/IP, RTP(IUDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, SSL/TLS, DHCP, FTP, SMTP, IcMP, IGMP, SMMPV1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT  Security  TPM 2.0(FIPS 140-2 level 2) THTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hamwha Private Root CA) Secure Boot. Signed firmware  General  Webpage Language  English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage  ZTB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera (Host + 5 camera) - Total bandwidth: up to 33Mbps - Cannot support the camera when host camera use Al mode	Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16kbps, 24kbps, 32kbps, 40kbps AAC-LC: 48Kbps at 16kHz  Smart Codec  Manual(5ea area), WiseStreamIII  Bitrate Control  H.264/H.265: CBR or VBR MJPEG: VBR  Streaming  Unicast(6 users) / Multicast Multiple streaming(Up to 5 profiles)  Protocol  IPV4, IPV6, TCP/IP, UDP/IP, RTP(UDP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, ISMP, SNMPV1/V2c/V3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT  Security  TPM 2.0(FIPS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication Digest Login Authentication Prodress Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA) Secure Boot, Signed firmware  General  Webpage Language  English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage  2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps *Cannot support the camera when host camera use Al mode	Video Compression	H.265/H.264: Main/High, MJPEG
Bitrate Control  H.264/H.265: CBR or VBR MJPEG: VBR  Streaming  Unicast(6 users) / Multicast Multiple streaming(Up to 5 profiles)  Protocol  Protocol  Protocol  Protocol  Dry4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTPP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT  FM 2.0(FIPS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication Digest Login Authentication Programming Interface  Boo. 1x Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA) Secure Boot. Signed firmware  General  Webpage Language  English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage  2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps - Cannot support the camera when host camera use AI mode	Audio Compression	G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps
Streaming Unicast(6 users) / Multicast Multiple streaming(Up to 5 profiles)  Protocol IPv4, IPv6, 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, LLDP, SRTP(TCP, UDP Unicast), MQTT  Security TPM 2.0(FIPS 140-2 level 2)  HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA) Secure Boot, Signed firmware  ONVIF Profile S/T/M SUNAPI(HTTP API)  General  Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage 2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera/10st 4 5 camera) - Total bandwidth: up to 33Mbps *Cannot support the camera when host camera use Al mode	Smart Codec	Manual(5ea area), WiseStreamIII
Multiple streaming(Up to 5 profiles)  Protocol	Bitrate Control	
SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT  TPM 2.0(FIPS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log User access log User access log OSC.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA) Secure Boot, Signed firmware  Application Programming Interface ONVIF Profile S/T/M SUNAPI(HTTP API)  General  Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage 2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps * Cannot support the camera when host camera use AI mode	Streaming	
HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA) Secure Boot, Signed firmware  Application Programming Interface ONVIF Profile S/T/M SUNAPI(HTTP API)  General  Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage 2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps * Cannot support the camera when host camera use AI mode	Protocol	SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP,
General  Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  Edge Storage 2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps * Cannot support the camera when host camera use AI mode	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA)
Webpage Language  English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps * Cannot support the camera when host camera use AI mode	Application Programming Interface	
Webpage Language  English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian  2TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps * Cannot support the camera when host camera use AI mode	General	
Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps * Cannot support the camera when host camera use AI mode		
	Edge Storage	Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps
	Memory	

#### Environmental & Electrical

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Operating Temperature / Humidity	-30°C~+55°C(-22°F~+131°F) / 0~95%RH(non-condensing) * Start up should be done at above -20°C Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Certification	IP66/IP67/IP6K9K, NEMA4X, IK10
Input Voltage	PoE+(IEEE802.3at type 2, Class4), 12VDC
Power Consumption	PoE+: Max 19.2W, typical 14.4W 12VDC: Max 17.5W, typical 12.7W Power redundancy failover
Mechanical	
Color / Material	White / Aluminum Bubble: Hard-coated dome
RAL Code	RAL9003
Product Dimensions / Weight	ø180x130mm(ø7.09x5.12"), 1900g(4.19 lb)
Compatible Conduit hole / Gangbox	19.1mm(3/4")(M25) single, double, 4" octagon, 4" square
Hanging Mount (Dome)	SBP-187HMW
Certifications & Standards	
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
	ICES-3(A)/NMB-3(Å) 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
EMC	ICES-3(A)/NMB-3(Å) 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 UL 62368-1, CAN/CSA C22.2 NO. 62368-1
EMC	ICES-3(A)/NMB-3(Å) 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  UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471  IEC/EN 63000 IEC/EN 60529 IP66/IP67, ISO 20653 IP6K9K, IEC/EN 62262 IK10
EMC Safety Environment	ICES-3(A)/NMB-3(Å) 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  UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471  IEC/EN 63000 IEC/EN 60529 IP66/IP67, ISO 20653 IP6K9K, IEC/EN 62262 IK10
EMC Safety Environment  DORI (EN62676-4 standard)	ICES-3(A)/NMB-3(Å) 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  UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 63000 IEC/EN 60529 IP66/IP67, ISO 20653 IP6K9K, IEC/EN 62262 IK10 NEMA 250 type 4X
EMC  Safety  Environment  DORI (EN62676-4 standard)  Detect (25PPM/8PPF)	ICES-3(A)/NMB-3(Å) 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  UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471  IEC/EN 63000 IEC/EN 60529 IP66/IP67, ISO 20653 IP6K9K, IEC/EN 62262 IK10 NEMA 250 type 4X  Wide: 30.0m(98.43ft) / Tele: 95.0m(311.82ft)
EMC  Safety  Environment  DORI (EN62676-4 standard)  Detect (25PPM/ 8PPF)  Observe (63PPM/ 19PPF)	ICES-3(A)/NMB-3(Å) 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  UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471  IEC/EN 63000 IEC/EN 60529 IP66/IP67, ISO 20653 IP6K9K, IEC/EN 62262 IK10 NEMA 250 type 4X  Wide: 30.0m(98.43ft) / Tele: 95.0m(311.82ft) Wide: 12.0m(39.37ft) / Tele: 38.0m(124.73ft)