





TNM-C4942TDR

Bi-spectrum AI IR Thermal Camera











Key Features

- Radiometry Al Bi-Spectrum for Outdoor environment
- Bi-spectrum monitoring with 8MP visible & VGA thermal
- AI based Object classification with Both Channels (person/vehicle)
- \bullet Remote Temperature Monitoring within -20 \sim 130°C range
- 10 of polygonal ROI areas for temperature monitoring
- Improved All-in-One installation solution (wall&pole)



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Specifications

Video	Thermal	Visible
Imaging Device	Uncooled micro bolometer	1/1.8" 8MP CMOS
Resolution	640x480 (can be scaled up to 1280x960) 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360	3840x2160, 3072x1728, 2592x1944, 2688x1520, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024,1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	H.265/H.264: Max. 8fps MJPEG: Max. 3fps	H.265/H.264: Max. 30fps/25fps (AI 2CH ON - 15fps) MJPEG: Max. 1fps
NETD	<60mK	
Pixel Size	12µm	
Min. Illumination		Color: 0.06Lux(F1.3, 1/30sec) BW: 0.004Lux(F1.3, 1/30sec), OLux(IR LED on)
Video Out	USB : Micro USB Type B, 1280x720 for installati	ion
Lens		
Focal Length (Zoom Ratio)	9.1mm fixed focal	4.4~9.3mm(2.2x) motorized varifocal
Max. Aperture Ratio	F1.0	F1.3(Wide)~F2.15(Tele)
Angular Field of View	H: 50.0°, V: 37.0°, D: 63.8° (iFoV: 1.319 mRad)	H:112.1°(Wide)~47.5°(Tele) / V:58.0°(Wide)~26.6°(Tele) / D:137.5°(Wide)~54.6°(Tele)
Min. Object Distance	3.5m(11.48ft)	Wide: 1.75m(5.74ft) / Tele: 5.21m(17.09ft)
Focus Control	Fixed	Simple foucs
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	-170° ~ +170° / -40° ~ 50° / -	
Operational		
Camera Title	Displayed up to 85 characters	
Day & Night		Auto(ICR)
Backlight Compensation		BLC, WDR, SSDR
Wide Dynamic Range		WDR(120dB)
Digital Noise Reduction		SSNR V, WiseNR II
Digital Image Stabilization		Support(built-in gyro sensor)
Motion Detection	8ea, polygonal zones	
Privacy Masking	6ea, rectangle zones - Color: Gray/Black/White	
Gain Control		Low / Middle / High
White Balance		ATW / AWC / Manual / Indoor / Outdoor
LDC		Support

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Electronic Shutter Speed		Minimum / Maximum / Anti flicker(1/5~1/12,000sec) Auto prefer shutter control(Based on Al engine)
Analytics	Classified object type: Person/Vehicle Support BestShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Motion detection	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type:car/bus/truck/motorcycle/bicycle) Support BestShot Analytics events based on Al engine - Object detection, Virtual line(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) * Some of the video analytics only works with people and vehicle detection
Business Intelligence	Temperature Analysis	
Alarm I/O	4 configurable I/O ports	
Alarm Triggers	Analytics, Network disconnect, Alarm input, MQTT	subscription
Alarm Events	When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at e - Alarm output - Handover(PTZ preset, Send message by HTTP/H - MQTT: publication	
Audio In	Selectable(mic in/line in)	
Audio Out	Line out	
Light Type		30m (98.42ft)
Color Palettes	Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom	
Radiometry		
Radiometry Temperature Detect Range	-20°C~130°C(-4°F~266°F)	
	-20°C~130°C(-4°F~266°F) ±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value.	
Temperature Detect Range	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room	
Temperature Detect Range Temperature Accuracy	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value.	
Temperature Detect Range Temperature Accuracy Temperature Detection	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area	
Temperature Detect Range Temperature Accuracy Temperature Detection Additional	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area	
Temperature Detect Range Temperature Accuracy Temperature Detection Additional Network	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area Hybrid palettes, Spot temperature reading	
Temperature Detect Range Temperature Accuracy Temperature Detection Additional Network Ethernet	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area Hybrid palettes, Spot temperature reading Metal shielded RJ-45(10/100/1000BASE-T)	
Temperature Detect Range Temperature Accuracy Temperature Detection Additional Network Ethernet Video Compression	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area Hybrid palettes, Spot temperature reading Metal shielded RJ-45(10/100/1000BASE-T) H.265/H.264: Main/High, MJPEG G.711 u-law / G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps	Manual(5ea area), WiseStreamIII
Temperature Detect Range Temperature Accuracy Temperature Detection Additional Network Ethernet Video Compression Audio Compression	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area Hybrid palettes, Spot temperature reading Metal shielded RJ-45(10/100/1000BASE-T) H.265/H.264: Main/High, MJPEG G.711 u-law / G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz	Manual(5ea area), WiseStreamIII
Temperature Detect Range Temperature Accuracy Temperature Detection Additional Network Ethernet Video Compression Audio Compression Smart Codec	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area Hybrid palettes, Spot temperature reading Metal shielded RJ-45(10/100/1000BASE-T) H.265/H.264: Main/High, MJPEG G.711 u-law / G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz WiseStream II H.264/H.265: CBR or VBR	Manual(5ea area), WiseStreamIII
Temperature Detect Range Temperature Accuracy Temperature Detection Additional Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area Hybrid palettes, Spot temperature reading Metal shielded RJ-45(10/100/1000BASE-T) H.265/H.264: Main/High, MJPEG G.711 u-law / G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz WiseStream II H.264/H.265: CBR or VBR MJPEG: VBR Unicast(6 users) / Multicast Multiple streaming(Up to 3 profiles)	TCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP,
Temperature Detect Range Temperature Accuracy Temperature Detection Additional Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming	±5°C(≤100°C), ±20%(>100°C) * This temperature accuracy is based on testing the minimum object distance (MoD) at room temperature as a reference value. 10 Polygonal ROI zones, whole FoV area Hybrid palettes, Spot temperature reading Metal shielded RJ-45(10/100/1000BASE-T) H.265/H.264: Main/High, MJPEG G.711 u-law / G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz WiseStream II H.264/H.265: CBR or VBR MJPEG: VBR Unicast(6 users) / Multicast Multiple streaming(Up to 3 profiles) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), R'SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, D	TCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP,

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OS / Firmware Protect User authentication Digest Authentication IEEE 802.1X(EAP-TLS, EAP-PEAP, MSCHAPV2) Secure Communication HTTPS, WSS(WebSocket Secure) Access Control Data Protect Encryption Credentials, Encrypt compress for live recording file Audit Access / System / Event Log management Device ID Device Certificate(Hanwha Private Root CA) Secure Storage HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 2slots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Fiver Temperature / Humidity -40°C to +60°C(-58°F to +140°F) -31str up should be done at above-30°C -99% RHInon-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F to +140°F) -51str up should be done at above-30°C -99% RHInon-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -99% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -90% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -90% RHINON-condensing) Storage Temperature / Humidity -60°C(-58°F to +140°F) -90% RHINON-condensing) -60°C(-58°F t	Security		
Network authentication EEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPV2) Secure Communication HTPS, WSS(WebSocket Secure) Access Control IP-based access control Data Protect Encryption Credentials, Encrypt compress for live recording file Audit Access / System / Event Log management Device ID Device Certificate (Hamwha Private Root CA) Secure Storage HTPM (Hamwha Trusted Platform Module), Sbcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General Finglish, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDKC 2slots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Poperating Temperature / Humidity *40°C to +60°CC-58°F to +140°F) *51 start up should be done at above -30°C 0-795% RH(non-condensing) Storage Temperature / Humidity *50°C +60°CC-58°F +140°F) / 0-90% RH Certification P66/IP67, IKID, NEMAX, NEMA TS 2(2.2.8, 2.2.9) Input Voltage P0E+ Max 25.5W, Typ 16.0W Power Consumption *20°C + Max 21.5W, Typ 14.0W Pod of Material Wh	OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware	
Secure Communication HTTPS, WSS(WebSocket Secure) Access Control IP-based access control Data Protect Encryption Credentials, Encrypt compress for live recording file Audit Access / System / Event Log management Device ID Device Certificate (Hanwha Private Root CA) Secure Storage HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SPHC/SDXC 220ts 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Environmental & Electrical Environmental & Electrical Operating Temperature / Humidity 540 CC -640°C(-58°F to +140°F) 0-990 RH Certification P66/P67, IKIO, NEMAKY, NEMAY, NEMAY, TS (2,2,8, 2,2,9) Input Voltage P0E+(IEEB02,3at, Class4), 12VDC Power Consumption P64/P67, IKIO, NEMAKY, NEMAY, N	User authentication	Digest Authentication	
Access Control IP-based access control Data Protect Encryption Credentials, Encrypt compress for live recording file Audit Access / System / Event Log management Device Device ID Device Certificate(Hanwha Private Root CA) Secure Storage HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General Face of Polish, Turkish, Dutch, Hungarian, Greek Polish, P	Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)	
Data Protect Audit Access / System / Event Log management Device ID Device ID Device Certificate (Hanwha Private Root CA) Secure Storage HTPM (Hanwha Trusted Platform Module). SDcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 2slots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Operating Temperature / Humidity -40°C to +60°C(-58°F to +140°F) -58 start up should be done at above -30°C 0-95% Rift(non-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F-140°F) / 0-90% RH Certification IP66/IP67, INO, NEMAX, NEMA TS 2(2.2.8, 2.2.9) Input Voltage Poet-(IEEB02.3at, Class4), 12VDC Power Consumption Mechanical Color / Material Mhite / Aluminum RAL Code RAL 9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53°), 4.53kg(9.99lb) Certifications & Standards EMC EMC EMC EMC ECC. 47 CFR 15 Subpart B Class A ICES-3 (A)/NMB-3 (A) CE/UKCA -ES-5032 Class A EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI (ISPR 32 Class A RCM sA/NZ5 (ISPR 30 Class A RCM sA/NZ	Secure Communication	HTTPS, WSS(WebSocket Secure)	
Audit Access / System / Event Log management Device ID Device Certificate (Hanwha Private Root CA) Secure Storage HTPM(Hanwha Trusted Platform Module). SDcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General General Webpage Language English. Korean. Chinese. French, Italian, Spanish. German, Japanese, Russian. Portuguese, Czech. Polish. Turkish, Dutch. Hungarian. Greek Edge Storage Micro SylSPHC/SDKC zelots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Environmental & Electrical Operating Temperature / Humidity -50°C+60°C(-58°F to +140°F) Storage Temperature / Humidity -50°C+60°C(-58°F to +140°F) Storage Temperature / Humidity -50°C+60°C(-58°F to +140°F) Operating Temperature / Humidity -50°C+60°C(-58°F to +140°F) Storage Temperature / Humidity -50°C+60°C(-58°F to +140°F) Storage Temperature / Humidity -50°C+60°C(-58°F to +140°F) Operating Temperature / Humidity -50°C+60°C(-58°F to +140°F) Storage Temperature / Humidity -50°C to +50°C to +50	Access Control	IP-based access control	
Device ID Device Certificate (Hanwha Private Root CA) Secure Storage HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC Salots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Poperating Temperature / Humidity Start up should be done at above -30°C O-95% RH(non-condensing) Storage Temperature / Humidity -50°C-460°C(-58°F-to 140°F) / 0-90% RH Certification IP66/IP67, IKIO, NEMAKA, NEMA TS 2(2.2.8, 2.2.9) Input Voltage PoE+(IEEE802.3at, Class4), 12VDC Power Consumption Poets: Max 25.5W, Typ 16.0W 12VDC: Max 21.5W, Typ 14.0W Mechanical Color / Material White / Aluminum RAL Code RAL 9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53°), 4.53kg(9.99lb) EMC Certifications & Standards EMC EMC EMC EMC EMC ECC.47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 5032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI (CISPR 32 Class A) CEC/UKCA - EN 5032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI (CISPR 32 Class A) CLESCER 32 Class A CLESCER 34 C	Data Protect	Encryption Credentials, Encrypt compress for live recording file	
Secure Storage HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt Security Certificate TPM with FIPS 140-2 level 2 General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 2slots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Operating Temperature / Humidity '40°C to +60°C(-58"F to +140"F)	Audit	Access / System / Event Log management	
Security Certificate TPM with FIPS 140-2 level 2 General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 2slots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Operating Temperature / Humidity -40°C to +60°C(-58°F to +140°F) ' Start up should be done at above -30°C 0-99% RRInon-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F-+140°F) / 0-90% RH Certification IP66/IP67, IK10, NEMAKX, NEMATS 2(2.2.8, 2.2.9) Input Voltage PoE+(IEEEB02.3a, Class4), 12VDC Power Consumption Mechanical Olor / Material RAL Code RAL 9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53°), 4.53kg(9.99lb) EMC Certifications & Standards FCC 47 CFR 15 Subpart B Class A (CES-3(A)/NIMB-3(A) CE/IXKG CE/IXKG CE/IXKG Safety UL/CSA 62368-1 Environment EIC/EN 60529 IP66/IP67, IEC/EN 60226 IK10	Device ID	Device Certificate(Hanwha Private Root CA)	
General Webpage Language English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 2slots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical Environmental & Electrical Operating Temperature / Humidity -40°C to +60°C(-58°F to +140°F) -818 to +140°F) Storage Temperature / Humidity -50°C+60°C(-58°F to +140°F) /0-90% RH Certification IP66/IP67, IK10, NEMAX, NEMA TS 2(2.2, 8, 2.2, 9) Input Voltage Pof+(IEEE802.3at. Class4), 12VDC Power Consumption Poe+: Max 25.5W, Typ 16.0W 12VDC: Max 21.5W, Typ 14.0W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight 353.4(W) x287.5(H) x191.2(D) mm(13.92x11.32x7.53"), 4.53kg(9.99Ib) Certifications & Standards EMC Cress (CSS-3(A)/NMB-3(A)) CECS-3(A)/NMB-3(A) CCES-3(A)/NMB-3(A) CCES-3(A	Secure Storage	HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt	
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Polish, Turkish, Dutch, Hungarian, Greek Edge Storage Micro SD/SDHC/SDXC 2slots 512GB Memory 4608MB RAM, 512MB Flash Environmental & Electrical -40°C to +60°C(-58°F to +140°F) -5 start up should be done at above -30°C 0-95% RH(non-condensing) Storage Temperature / Humidity -50°C-460°C(-58°F-140°F) / 0-90% RH Certification IP66/IP67, Ik10, NEMA4X, NEMA TS 2(2.2.8, 2.2.9) Input Voltage PoE+(IEEB02.3at Class 4), 12VDC Power Consumption PoE+: Max 25.5W, Typ 16.0W 12VDC: Max 21.5W, Typ 14.0W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb) Certifications & Standards FCC 47 CFR 15 Subpart B Class A (CES-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 ENVIRONMENTAL PROCESS INC. ENVIRONMENTAL PROCESS INC. ENVIRONMENTAL PROCESS INC	General		
Environmental & Electrical Operating Temperature / Humidity	Webpage Language		
Environmental & Electrical Operating Temperature / Humidity	Edge Storage	Micro SD/SDHC/SDXC 2slots 512GB	
Operating Temperature / Humidity -40°C to +60°C(-58°F to +140°F) * Start up should be done at above -30°C 0-95% RH(non-condensing) Storage Temperature / Humidity -50°C-+60°C(-58°F-+140°F) / 0-90% RH Certification IP66/IP67, IK10, NEMA4X, NEMA TS 2(2.2.8, 2.2.9) Input Voltage PoE+(IEEE802.3at, Class4), 12VDC Power Consumption PoE+: Max 25.5W, Typ 16.0W 12VDC: Max 21.5W, Typ 14.0W Mechanical Color / Material RAL Code RAL9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb) Certifications & Standards FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE(JUKCA -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 ICES 30 Clas	Memory	4608MB RAM, 512MB Flash	
Operating Temperature / Humidity * Start up should be done at above -30°C 0-95% RH(non-condensing) Storage Temperature / Humidity -50°C-460°C(-58°F-+140°F) / 0-90% RH Certification IP66/IP67, IK10, NEMA4X, NEMA TS 2(2.2.8, 2.2.9) Input Voltage PoE+(IEEE802.3at, Class4), 12VDC Power Consumption PoE+: Max 25.5W, Typ 16.0W 12VDC: Max 21.5W, Typ 14.0W Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight Standards 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 RCM AS/NZS CISPR 32 Class A EN 5032 Class A EN 62368-1 Environment Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	Environmental & Electrical		
Certification IP66/IP67, IK10, NEMA4X, NEMATS 2(2.2.8, 2.2.9) Input Voltage PoE+(IEEE802.3at, Class4), 12VDC Power Consumption PoE+: Max 25.5W, Typ 16.0W 12VDC : Max 21.5W, Typ 14.0W Mechanical Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb) 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 RN 64 S/AZS CISSPR 32 Class A Safety UL/CSA 62368-1 KC 62368-1 KC 62368-1 Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	Operating Temperature / Humidity	* Start up should be done at above -30°C	
Input Voltage	Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH	
Power Consumption	Certification	IP66/IP67, IK10, NEMA4X, NEMA TS 2(2.2.8, 2.2.9)	
Mechanical Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb) Certifications & Standards 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 RCM AS/NZS CISPR 32 Class A EN 50130-4, EN 61000-3-2 En 61000-3-3 CE/UKCA EN 50032 Class A EN 50130-4, EN 61000-3-2 EN 61000-3-3 EN 50130-4 EN 61000-3-2 EN 61000-3-3	Input Voltage	PoE+(IEEE802.3at, Class4), 12VDC	
Color / Material White / Aluminum RAL Code RAL9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb) Certifications & Standards 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 RCM AS/NZS CISPR 32 Class A Safety UL/CSA 62368-1 KC 62368-1 KC 62368-1 Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	Power Consumption		
RAL Code RAL9003 Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb) Certifications & Standards FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CES-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 RCM AS/NZS CISPR 32 Class A RCM AS/NZS CISPR 32 Class A IKC 62368-1 Safety Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	Mechanical		
Product Dimensions / Weight 353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb) Certifications & Standards 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 Safety UL/CSA 62368-1 KC 62368-1 Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	Color / Material	White / Aluminum	
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 RCM AS/NZS CISPR 32 Class A RCM AS/NZS CISPR 32 Class A ICE CEN 60529 IP66/IP67, IEC/EN 62262 IK10	RAL Code	RAL9003	
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 UL/CSA 62368-1 KC 62368-1 Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	Product Dimensions / Weight	353.4(W)x287.5(H)x191.2(D)mm(13.92x11.32x7.53"), 4.53kg(9.99lb)	
EMC 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 Safety UL/CSA 62368-1 KC 62368-1 Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	Certifications & Standards		
Environment IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10	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	
	Safety		
	Environment		



TNM-C4942TDR









CAD Unit:mm [inch]

