



Network

Dome

TNV-C7013RC

AI Corner Mount Camera



Key Features

- Maximum 3MP (2048 x 1536) resolution
- Angular Field of View: Horizontal 128°, Vertical 100°
- Color: 0.04 lux (F2.0, 1/30sec, 30IRE) , BW: 0.04Lux (F2.0, 1/30sec, 30IRE)
- Built-in 2.39mm fixed focal lens
- Anti-ligature design for corrections and mental health facilities
- MicroSD/SDHC/SDXC memory slot (1TB)
- IR Viewable Length: Wise IR 15m (49.21ft), invisible 940nm wavelength
- Classified object type: Person/Face/Vehicle/License plate
- Clothes color detection (Orange/Black/Red, @400lux)
- Analytics events based on AI engine, Object detection, Virtual line (Crossing/Direction), Virtual area (Loitering/Intrusion/Enter/Exit)

Compatible Devices



SPG-VAN13W

TNV-C7013RC

AI Corner Mount Camera



Specifications

Video

Imaging Device	1/1.8" CMOS
Resolution	2048x1536, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240.
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps(@3MP Max. 5fps)
Min. Illumination	Color: 0.04Lux(F2.0, 1/30sec, 30IRE) BW: 0.004Lux(F2.0, 1/30sec, 30IRE), 0Lux(IR LED on)

Lens

Focal Length (Zoom Ratio)	2.39mm fixed focal
Max. Aperture Ratio	F2.0
Angular Field of View	H: 128°, V: 100°
Min. Object Distance	0.5m(1.64ft)
Focus Control	Fixed

Operational

Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SDDR
Wide Dynamic Range	extremeWDR(120dB)
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, 4point Quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic
Gain Control	Off / Max gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker(2~1/12,000sec) Prefer shutter control(Based on AI engine)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle)/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics events - Defocus detection, Tampering, Fog detection, Audio detection, Sound classification, Virtual area(Appear/Disappear, Clothes color detection(Orange/Black/Red, @400lux))
Alarm I/O	2 configurable I/O ports * Support extra Alarm via optional SPM-4210 I/O box

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.

Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
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 - MQTT: publication
Audio In	Selectable(mic in/line in/Built-in MIC)
Audio Out	Line out
Light Type	IR LED(940nm)
IR Viewable Length	WiseIR 15m(49.21ft)

Network	
Ethernet	Metal shielded RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression	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
Smart Codec	Manual(5ea area), WiseStreamIII(Based on AI engine)
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles, 3 virtual channel support)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast)
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Wisenet open platform

Security	
OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authentication, Prevent brute-force attacks
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP
Access Control	IP-based access control
Data Protect	Encryption Credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
Device ID	Device certificate(Hanwha Vision Root CA)
Secure Storage	TPM, HTPM(Hanwha trusted platform module), SDcard partition encrypt
Security Certificate	TPM with FIPS 140-2 level2

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 1slot Max. 1TB
Memory	4GB RAM, 512MB Flash

Environmental & Electrical	
Operating Temperature / Humidity	-10°C~-55°C(+14°F~+131°F) / 0~95% RH(non-condensing) Humidity control with AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH

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Certification	IP66/69, IP6K9K, IK11, NEMA4X
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	PoE: Max 12.95W, typical 9.7W 12VDC: Max 12.7W, typical 9.0W

Mechanical

Color / Material	White / Aluminum
RAL Code	RAL9003
Product Dimensions / Weight	198.3(W)x104.8(H)x198.6(D)mm(7.87x4.13x7.82"), 1935g(4.27 lb)
Other Compatible Models	SPG-VAN13W

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 IP66/IP69, ISO 20653 IP6K9K, IEC/EN 62262 IK11 NEMA 250 type 4X

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	35.1m(115.16ft)
Observe (63PPM/ 19PPF)	14m(45.93ft)
Recognize (125PPM/ 38PPF)	7.0m(22.97ft)
Identify (250PPM/ 76PPF)	3.5m(11.48ft)