



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 Accessories (Optional)



SPG-VAN13W

TNV-C7013RC

AI Corner Mount Camera



Specifications

Video

Imaging Device	1/1.8" progressive 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: 0.04Lux(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, SSSDR
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 / Narrow ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec) Prefer shutter control(Based on AI engine)
Digital PTZ	Support(Preset, Group)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	Classified object type : Person/Face/Vehicle/License plate Support DetectionShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Virtual area(Appear/Disappear), Clothes color detection(Orange/Black/Red, @400lux)
Alarm I/O	2 configurable I/O ports * Support 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 - 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 Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm * Support Audio via optional SPM-4210 I/O box
Audio Out	Line out, Max. output level: 1Vrms
IR Viewable Length	Wise IR 15m(49.21ft), invisible 940mm wavelength

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), WiseStream II , WiseStreamIII(Based on AI engine)
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control
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, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, 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, EAP-PEAP MSCHAPv2) Device Certificate(Hanwha Techwin Root CA, pre-installed) Secure by default certificate Secure OS/Boot/Storage, Verify firmware forgery
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API) Wisenet open platform

General

Edge Storage	Micro SD/SDHC/SDXC 1slot 1TB
Memory	4096MB RAM, 512MB Flash

Environmental & Electrical

Operating Temperature / Humidity	-10°C ~ +55°C (14°F ~ +131°F) 0~95% RH(non-condensing) Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / 0~90% RH
Certification	IP66, IP6K9K, IK10+
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	PoE: Max 12.95W, typical 9.7W DC : Max 12.7W, typical 9.0W

Mechanical

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.

TNV-C7013RC

Color / Material	White / Aluminum
RAL Code	RAL9003
Product Dimensions / Weight	198.3(W)x104.8(H)x198.6(D)mm(7.87"x4.13"x7.82"), 1,935g (4.27lb)
Skin Cover (Dome)	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, ISO 20653 IP6K9K, IEC/EN 62262 IK10+

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)