

Network Dome

TID-A800

5MP AI Intercom

Key Features

- 5 MP Image Resolution
- 1.93mm Focal Length
- Peak SPL 98dB Built-in Speaker
- IP66/67, IK10, NEMA4X Rated
- AI-based Analytics with Attributes and BestShot
- Beamforming Dual MIC
- Echo cancellation and noise reduction
- Peak SPL: 98dB@1m(DC12V), 92dB@1m(PoE)
  Max SPL: 84dB(DC12V), 81dB(PoE)@1m/1kHz
- Face zoom, DPM, Similarity search
- SIP 2.0 support

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Specifications

Video

Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@5MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.15
	BW(1/30sec, 30IRE)	0.015

Lens

Focal Length (mm)		1.93
Max Aperture Ratio (F number)	Wide	2.2
Angular Field of View	Horizontal	163°
	Vertical	116°
	Diagonal	187°
Min. Object Distance		0.3m(0.98ft)

Operational

Day & Night		Auto(Electrical)
Backlight Compensation		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	8point Polygonal zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
	Dynamic Privacy Masking: Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
Gain Control		Off, Max gain, Manual

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Operational

White Balance		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Speed Range	2~1/30,000sec
Face Zoom		Support
Alarm Interface	In/Out	Input 2ea / Output 1ea
	Others	Relay out, Support extra alarm I/O via optional I/O box
Alarm Triggers		Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription, Case tampering, Day/Night, Storage disruption, DTMF
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, SIP: call generation
Audio Streaming		Two-way/one-way selectable, Full duplex, Echo cancellation, Noise reduction
Audio In		Built-in mic
Audio Out		Built-in speaker
Speaker	Max. Sound Pressure Level	Max SPL 84dB(DC12V), 81dB(PoE)@1m/1kHz Peak SPL 98dB@1m(DC12V), 92dB@1m(PoE)
	Frequency Range	550Hz-15.5kHz
	Sensitivity (dB @ 1 Watt)	81dB (1m, 1W, Peak level)
Light Type		Warm color

Analytics

Classified Object Type		Person, Face, Vehicle, License plate
Attributes	Person	Upper/Lower clothes color, Gender, Bag
	Vehicle	Type(car, bus, truck, motorcycle, bicycle), Color
	Face	Age, Gender, Face mask, Glasses
Similarity Search		Support
Thumbnail		BestShot
Analytics Events	Based on AI Engine	Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection, Face mask detection
	Normal	Tampering, Audio detection, Shock detection
Business Intelligence	Based on AI Engine	People counting, Vehicle counting

Network

Ethernet	Metal shielded RJ-45(10/100BASE-T)
Video Compression	H.265: Main, H.264: Main/Baseline/High,MJPEG

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Network

Audio Compression		G.711(PCM): 8kHz(64kbps), G.726(ADPCM): 8kHz(16/24/32/40kbps), AAC-LC: 16kHz(48kbps), OPUS: 16kHz(64kbps)
Smart Codec		WiseStream(Based on AI engine)
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	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, SFTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT, SMTP(StartTLS), SIP, Syslog
SIP support (VoIP, Peer-to-peer, SIP/PBX integration)		SIP 2.0(RFC 3261 and companion RFCs)
Application Programming Interface	ONVIF	S, G, T, M
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform

Security

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
User authentication	Digest authentication, Prevent brute-force attack
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP, 802.1AE(MACsec)
Access Control	IP-based access control, MAC-based access control, Auto logout
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	SDcard partition encrypt(AES-256), Secure element
Supply Chain Security	SBOM
Security Certificate	Secure element(FIPS 140-3 level3, CC EAL6+), Consumer IoT Security Standard (ETSI EN 303 645)

General

SoC	Type	Wisenet 9
	Dual NPU	Support
Memory	RAM	4GB
	Flash	8GB eMMC
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 1slot

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Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~100% RH(condensing)
	Others	Start up should be done at above -30°C
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3), 12VDC
Power Consumption	PoE	Max 12.95W, typical 6.8W
	12VDC	Max 21.3W, typical 6.9W
	Others	12VDC power consumption includes 12VDC/550mA relay out.
WisePower		Power monitoring
Power Redundance Failover		Support

Mechanical

Color	Dark grey
Material	Aluminum
RAL Code	RAL7022
Product Dimensions	49(W)x199(H)x56.6(D)mm(1.93x7.83x2.23")
Product Weight	541g(1.19lb)
Status LED	Support

Certifications & Standards

EMC	FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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 62471
Environment	IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10, NEMA 250 type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	7.7m(25.1ft)
Observe (63PPM/ 19PPF)	Wide	3.1m(10.0ft)
Recognize (125PPM/ 38PPF)	Wide	1.5m(5.0ft)
Identify (250PPM/ 76PPF)	Wide	0.8m(2.5ft)

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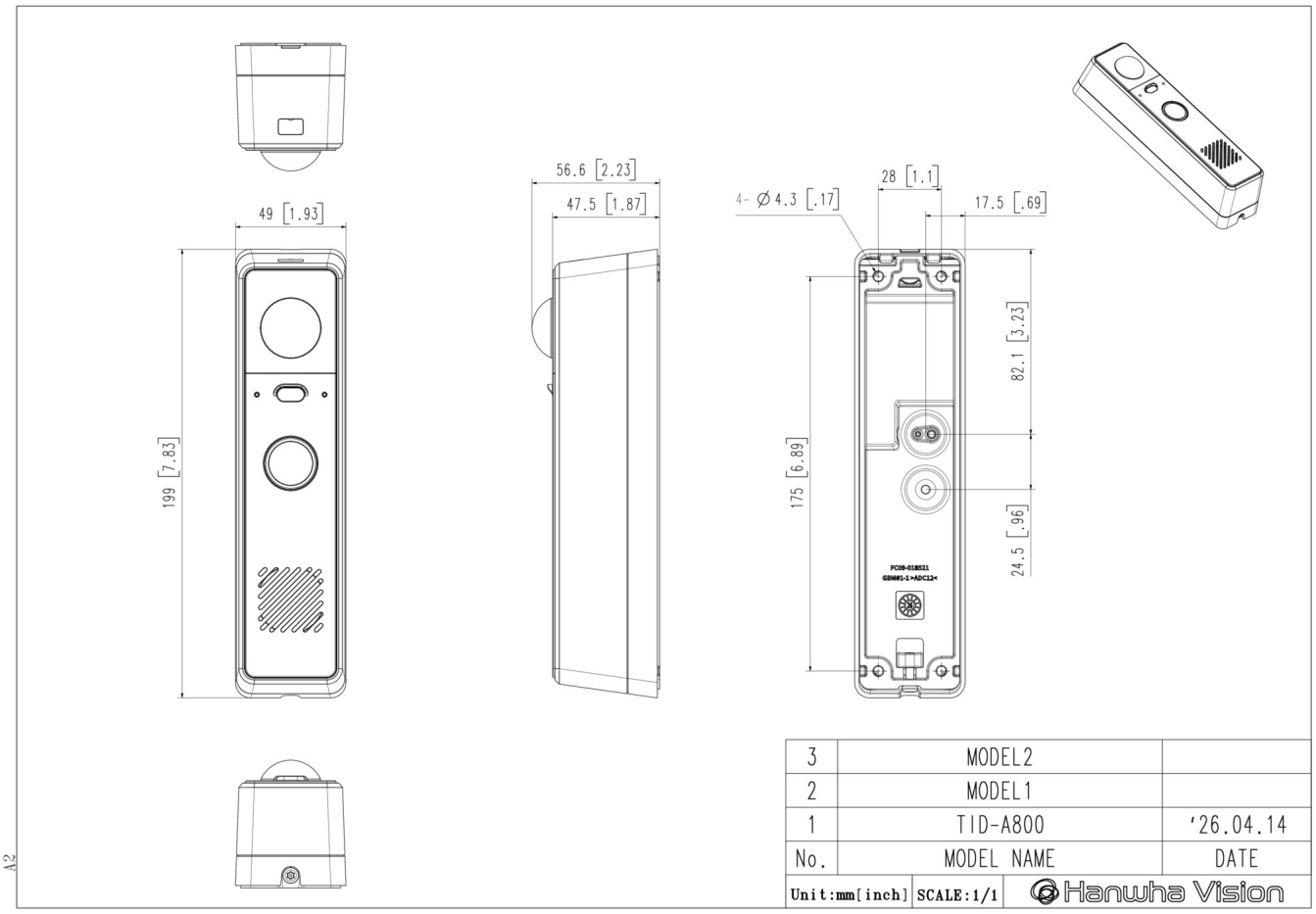
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CAD

Unit: mm [inch]



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Compatible Devices



SBC-1990W



SBS-1990B



SBS-1990TM



SHS-1990F

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