



VKD MS253HA

2MP Starlight IR AI WizSense Network PTZ Camera





- · Starlight technology
- · IR distance up to 30 m
- · Deep-learning-based perimeter protection
- · SMD Plus
- · PoE
- · IP66













Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

Designed with H.265 coding technology, Dahua Starlight series camera has efficient video coding capability, which can save bandwidth and storage space. The product adopts the latest starlight technology to display better color images under low-light conditions.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Environment

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30 °C to +60 °C (-22 °F to +140 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

SMD Plus

With Deep-Learning Algorithm, Dahua SMD Plus filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.





Technical Specification							Main stream: 1080P (1–25/30 fps); 1.3M (1–25/30 fps); 720P (1–25/30 fps)	
Camera					Frame Rate	!	Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P (1–25/30 fps); 1.3M (1–25/30 fps); 720P (1–25/30 fps)	
Image Sensor	1/2.8" CMOS				D'' D			
Pixel	2MP				Bit Rate Co	Bit Rate Control Variable/Constant		
Max. Resolution	1920 (H) × 1080 (V)				Bit Rate		H.264: 3 Kbps–20480 Kbps H.265: 3 Kbps–20480 Kbps	
ROM	256 MB				Day/Night		Auto (ICR)	
RAM	512 MB				BLC		Support	
Electronic Shutter Speed	1/3 s-1/100000 s				WDR		DWDR	
Scanning System	Progressive				HLC		Support	
Min. Illumination	Color: 0.002 Lux@F1.8 B/W: 0.0002 Lux@F1.8				White Balar	nce	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/Natural light/Street lamp	
Illumination Distance	0 Lux (illuminator on) 30 m (98.43 ft)				Gain Contro	ol	Auto/Manual	
Illuminator On/Off Control	Manual/SmartIR/Off				Noise Redu	uction 2D/3D		
·					Motion Det	tection	Support	
Illuminator Number 4 IR lights; 1 white light					Region of Ir	nterest (RoI)	Support	
Lens Focal Length	27,000 425,000				Defog		Electronic	
	2.7 mm-13.5 mm				Flip		180°	
Max. Aperture	F1.8-F3.3				S/N Ratio		≥ 55 dB	
Field of View	H: 101.6°-33.5°; V: 52°-18.7°; D: 124.7°-38.5°				Audio			
Optical Zoom	5x				Compression	on	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723	
Focus Control	Auto/Semi-Auto/Manual				Network	Network		
Close Focus Distance	1.2 m (3.94 ft)				Ethernet			
Iris Control	Fixed			Ethernet		IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP;		
DORI Distance	Detect 131 m (429.79 ft)	Observe 52.3 m (171.59 ft)	Recognize 26 m (85.30 ft)	12.8 m (41.99 ft)	Protocol		UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMP v1/v2c/v3 (MIB-2); RTCP; RTMP	
PTZ	(423.73 10)	(171.5511)	(85.50 10)	(41.55 11)	Interoperat	pility	ONVIF Profile S&G&T CGI	
Pan/Tilt Range	Pan: 0°–355°				Streaming I	Method	Unicast/Multicast	
-	Tilt: -15°-+90° Pan: 0.1°/s-80°/s				User/Host		20 (total bandwidth: 64 M)	
Manual Control Speed	Tilt: 0.1°/s–56°/s				Storage		FTP; Micro SD card (256 G); NAS	
Preset Speed Preset	Pan: 81°/s; Tilt: 43°/s 300						IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	
Power-off Memory	Support				Browser			
Idle Motion	Preset				Manageme	nt Software	DMSS	
Artificial Intelligence					Mobile Pho		iOS, Android	
Tripwire and intrusion. Support alarm triggering by					Certificat		ios, Aituroid	
Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.				Certifica	LIOII	CE: EN55032/EN55024/EN50130-4/EN 55035/EN	
Video					Certificatio	ns	61000-3-2/EN 61000-3-3/EN 62368-1 FCC: Part15 subpartB, ANSI C63.4-2014	
Compression		4B; H.264M; H 265+; H.264+	н.264Н; МЈРЕ	EG; MJPEG (Sub	Port	Port		
Streaming Capability	3 streams				Audio Input	t	1 (Built-in Mic)	
1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280			Audio Outp	out	1 (Built-in Speaker)			
Resolution	× 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)				Two-way A	udio	Support	



Alarm Linkage	Capture; preset; SD card record; send email					
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection					
Power						
Power Supply	12V DC/2A ± 10% (supports PoE)					
Power Consumption	Basic: 5W Max: 12W (illuminator on)					
Power Adapter	Included					
Environment						
Operating Temperature	-30°C to +60°C (-22°F to 140°F)					
Operating Humidity	≤ 95%					
Protection	IP66; TVS 2000V lightning proof; surge protection; voltage transient protection					
Structure						
Dimensions	271.7 mm × 142.5 mm × 124.1 mm (10.70" × 5.61" × 4.89")					
Net Weight	1.1 kg (2.43 lb)					
Gross Weight	1.51 kg (3.33 lb)					

Accessories

Included:



DC12V/2A Power Adapter

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
1	I	1

Dimensions (mm)





