

Milesight

AI Vandal-proof Mini Bullet Network Camera

NDA A

IP67

IK10



DATASHEET

KEY FEATURES

- ▶ NDA A Compliance (The fully NDA A-compliant products are well suited for government, defense and a range of projects subject to the NDA A.)
- ▶ Powerful IR LEDs (Equipped with 3rd generation dot matrix IR LEDs, guaranteeing excellent image quality, long lifespan and energy efficiency.)
- ▶ Advanced Functions (Boasting to support various advanced functions such as HLC, Defog, ROI.)
- ▶ 256G (Supporting ultra-large external microSD/SDHC/SDXC card storage up to 256G.)
- ▶ Adjustable 3-Axis Bracket (Providing a robust mounting platform for angle adjustments on a 3-axis plane.)
- ▶ 0.005Lux Starlight (Deliver high detailed color images even in low light environment reaching 0.005Lux.)
- ▶ Smart Stream (Bandwidth, storage and bit rate are saved with Smart Stream On, eg, H.265+ saves 70%~80% bandwidth that of H.264.)

AI Video Analytics

The AI Camera Series can intelligently filter objects to focus on human and vehicle detection in multiple events such as Region Entrance, Region Exiting, Loitering, Advanced Motion Detection, etc.



120dB Super WDR

Sensor-based WDR technology allows the camera to record greater scene details with true color reproduction even under the extreme back light and high contrast conditions. The ratio that the brightest light signal values divided by the darkest light signal values is up to 120dB.



4K Video Viewing Experience

The camera performs well in catching detailed image with 4K HD resolution regardless of the moving speed.



IP67&IK10

Supporting IP67-rated weather proofing and IK10-rated vandal proof which are the leading level of the industry, the camera is well protected against adverse impact to ensure the performance.



AI Vandal-proof Mini Bullet Network Camera



Camera	Model	MS-C2964-(R)PD (2MP)	MS-C5364-PD (5MP)	MS-C8164-(S)PD (4K)
	Image Sensor	1/2.8" Progressive Scan CMOS		
	Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0Lux with IR on	Color: 0.008Lux@F1.6 B/W: 0Lux with IR on	Color: 0.012Lux@F1.6 B/W: 0Lux with IR on
	WDR	120dB Super WDR		
	Lens	2.8mm/4mm/6mm@F1.6		
	Mount	M12		
	Field of View	H111°/D128°/V61°(2.8mm) H91°/D106°/V50°(4mm) H55°/D63°/V32°(6mm)	H105°/D131°/V78°(2.8mm) H86°/D108°/V63°(4mm) H52°/D63°/V40°(6mm)	H110°/D126°/V60°(2.8mm) H91°/D106°/V50°(4mm) H55°/D63°/V32°(6mm)
	Shutter Time	1/100000s~1s		
	IR Distance	Up to 30m		
	Day/Night Mode	Day/Night/Auto/Customize/Schedule		
	S/N	>55dB		
Video	Max.Image Resolution	1920x1080	2592x1944	3840x2160
	Primary Stream	60Hz: 60fps@(1920x1080)(Optional for R Series) , 30fps@(1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 50fps@(1920x1080)(Optional for R Series) , 25fps@(1920x1080, 1280x960, 1280x720, 704x576)	60Hz: 30fps@(2592x1944, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576) 50Hz: 25fps@(2592x1944, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)	60Hz/50Hz: 30fps@(3840x2160, 3072x2048, 2592x1944, 2592x1520, 2048x1536, 1920x1080, 1280x960, 1280x720, 704x576), 20fps@(3840x2160)(Optional for S Series)
	Secondary Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288)	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288)	
	Tertiary Stream	60Hz: 30fps@(1280x720, 704x576, 640x480, 640x360, 352x288) 50Hz: 25fps@(1280x720, 704x576, 640x480, 640x360, 352x288)		
	Video Compression	H.265*/H.265(HEVC)/H.264*/H.264/MJPEG		
	Video Bit Rate	16Kbps~16Mbps(CBR/VBR Adjustable)		
	Privacy Masking	Up to 4 areas		
	ROI	Up to 8 areas		
	Image Setting	Brightness/Contrast/Saturation/Sharpness		
	Interface	Ethernet	1*RJ45 10M/100M Ethernet Port	
Network	Network Storage	NAS(Support NFS, SMB/CIFS), ANR		
	Protocol	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL		

AI Vandal-proof Mini Bullet Network Camera



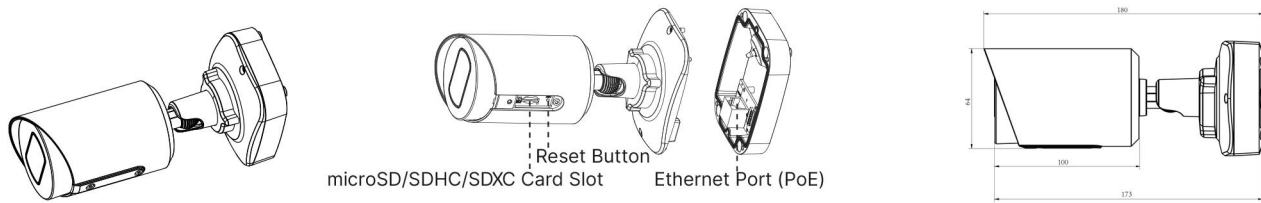
Intelligent Analytics	Video Analysis	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Object Left, Object Removed		
System	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256G		
	Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur		
	SIP/VoIP Support	Yes, Voice & Video-over-IP		
	Event Trigger	Motion Detection, Network Disconnection, etc.		
	Event Action	FTP Upload, SMTP Upload, SD Card Record, SIP Phone, HTTP Notification, etc.		
	System Compatibility	ONVIF Profile G & Q & S & T, API		
General	Working Temperature	-40°C~60°C		
	Working Humidity	0~90%(Non-condensing)		
	Power Supply	PoE (802.3af)		
	Power Consumption	3.1W MAX 5.1W MAX (With IR on)	3.5W MAX 5.4W MAX (With IR on)	4.2W MAX 5.8W MAX (With IR on)
	Weather Proof	Up to IP67-rated for Weather-resistant Performance		
	Housing	Vandal-proof IK10-rated Metal Housing		
	Weight	610g (Junction Box Version) / 450g (Cable Out Version)		
	Dimensions	97mmX74mmX180mm (Junction Box Version) / 64mmX64mmX160mm (Cable Out Version)		
	Warranty	3/5 Years		

AI Vandal-proof Mini Bullet Network Camera

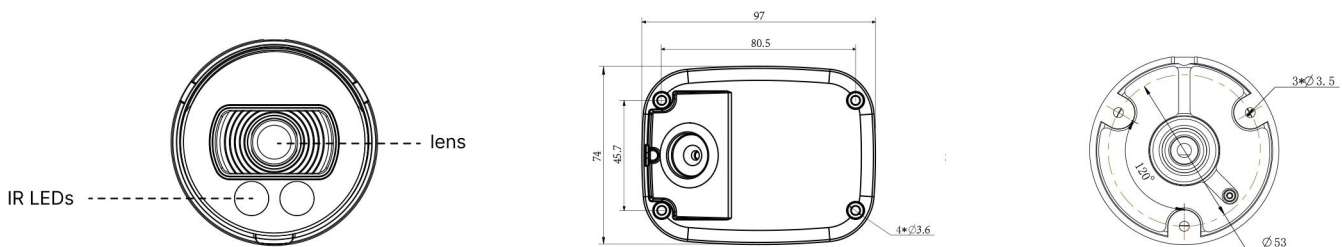
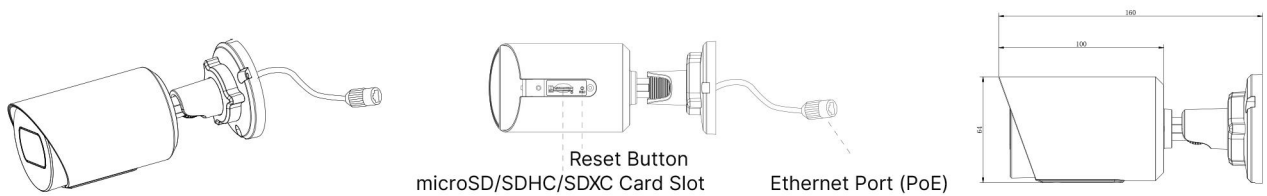


Structure Diagrams

Junction Box Version



Cable Out Version



Units: mm

Accessories Support

A01 Pole Mount

Weight: 720g
Dimensions: 170*51.5*152.6mm



A03 External Corner Bracket

Weight: 900g
Dimensions: 170*152.5*76.3mm



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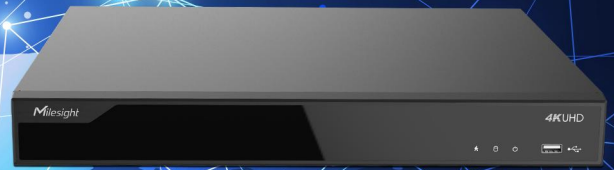


Milesight

4K H.265 Pro NVR 5000 Series

NDA A

4K+H.265



DATASHEET

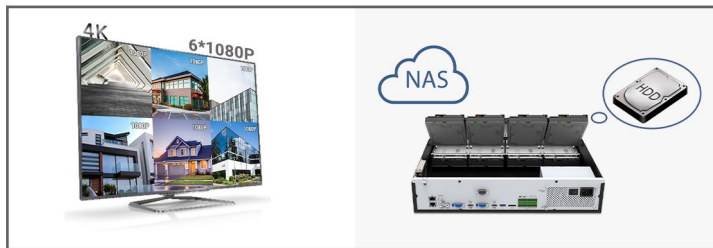


KEY FEATURES

- ▶ NDA A Compliance (The fully NDA A-compliant products are well suited for government, defense and a range of projects subject to the NDA A.)
- ▶ 16-CH Network Video Input (Up to 16 channel IP cameras can be connected.)
- ▶ H.265⁺ (H.265⁺ allows to cut down 70%~80% bandwidth while ensuring the high quality of images compared with H.264.)
- ▶ Dual Stream Recording (Supporting Primary Stream and Secondary Stream recording simultaneously.)
- ▶ HTML5 Streaming Ready (Support previewing the video via all major browsers without plug-in when Video Codec is set to H.265.)
- ▶ Auto Backup (The latest 24 hours' video will be automatically backed up to USB Port Devices or NAS after setting up the backup.)

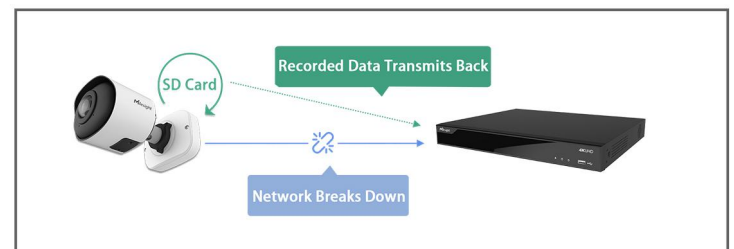
Power Decoding Capacity & Flexible Storage Options

- The 4K NVR is equipped with solid 4K decoding and display capabilities and maximum support simultaneous viewing of 6*1080P or 12*720P network cameras.
- Providing flexible storage options including HDD and NAS to address the needs for versatile storage.



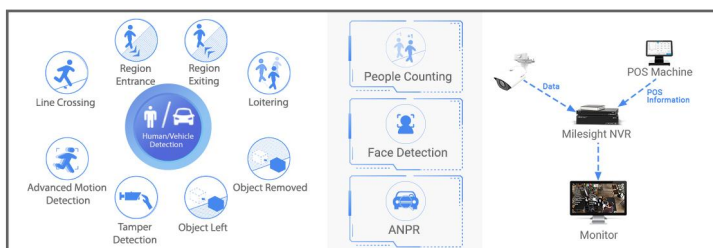
Reliability

- ANR can store video data on the camera storage card when network between IPC and NVR is disconnected and retransfer the recorded video to NVR after network recovers.



AI Video Analytics & POS Integration

- All-in-one to Manage AI & ANPR: VCA Function focus on human and vehicle detection. People Counting provides high-accuracy data and statistic reports. Face Detection function supports attribute recognition. Enterprise ANPR Management makes it easy to monitor traffic.
- POS machine information can be transferred to and displayed on the NVR.



Flexible Structure

- U-Rack Standard supported.
- A whole array of ports provides all necessary features for effective surveillance.



4K H.265 Pro NVR 5000 Series



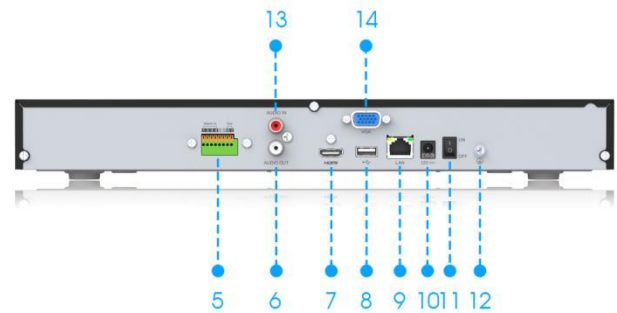
Model			MS-N5016-E
Video/Audio Input	Network Video Input		16-CH
	Bandwidth	Incoming	80Mbps
		Outgoing	50Mbps
Video/Audio Output	HDMI Output		1-CH, Resolution: 3840x2160/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz HDMI Supports Audio Output
	VGA Output		1-CH, Resolution: 1920x1080/60Hz, 1920x1080/50Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
	Dual Stream		Support
	Recording Resolution		8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF
	Synchronous Playback		1*(30fps @8MP), 2*(30fps @6MP), 2*(30fps @5MP), 3*(30fps @4MP), 4*(30fps @3MP), 6*(30fps @1080P), 12*(30fps @720P)
Video/Audio Compression	Video Compression		H.265+/H.265(HEVC)/H.264+/H.264
	Audio Compression		G.711/AAC/G.722/G.726
	Sample Rate		8KHz/16KHz
Storage	SATA		2*SATA HDD(3.5")
	Capacity		Up to 10TB capacity for each HDD
Recording Management	Recording Type		Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)
	Snapshot Type		Continuous, Event (Motion Detection, Alarm, VCA, Smart Analysis)
	Playback Type		General Playback, Event Playback, Tag Playback, Split Playback, Picture Playback
Backup	Backup		Video Backup, Image Backup
Network	Protocol		IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, NTP, SNTP, SMTP, SNMP, UPnP, NFS
External Interface	Network Interface		1*RJ45 10/100/1000Mbps
	USB Interface		2*USB 2.0
	Audio Input/Output		1*RCA/1*RCA
	Alarm Input/Output		4-CH/1-CH
General	Compatibility		ONVIF, API
	Advanced Function		ANR
	ANPR		Support
	Video Analysis		Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed
	Keyboard Control		Milesight Keyboard (MS-K01)
	Power Supply		DC 12V 50Hz~60Hz
	Consumption		≤4W(Without HDD)
	Working Conditions		Temperature: -10℃~55℃ / Humidity: 10%~90%
	Dimensions		Rack Mountable Chassis (1.0U Standard) 380mm(W)X317.6mm(D)X51.8mm(H)
	Weight		1.9Kg
	Warranty		3/5 Years

4K H.265 Pro NVR 5000 Series



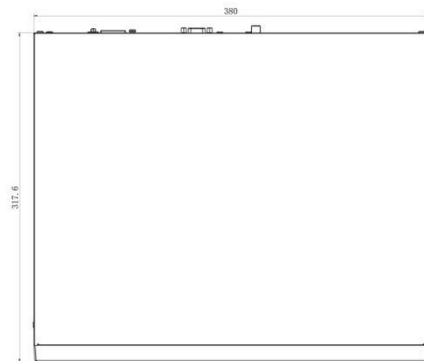
Interfaces

MS-N5016-E



1. Run Indicator 2. HDD Indicator 3. Power Indicator 4. USB 5. Alarm In/Out 6. Audio Out 7. HDMI 8. USB
9. Ethernet Port 10. Power 11. Power Button 12. GND 13. Audio In 14. VGA

Structure Diagrams



Units: mm

Naming Convention



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