

## DS-2CD2955FWD-I(S) 5 MP Network Fisheye Camera



### Key Features

- Up to 5 megapixel high resolution
- 2560×1920 @30fps
- H.265, H.265+, H.264+, H.264
- Support 14 display modes
- FOV: horizontal field of view 180°, vertical field of view 180°
- Dual video streams
- Digital Noise Reduction
- Support on-board storage, up to 128 G
- DC12V & PoE (802.3af)
- Up to 8 m IR range
- -S: Audio/Alarm IO
- Mobile Monitoring via Hik-Connect or iVMS-4500



## Specification

<b>Camera</b>	
Image Sensor	1/2.5" Progressive Scan CMOS
Min. Illumination	Color: 0.01Lux @ (F1.2, AGC ON), 0 Lux with IR on
Shutter Speed	1/3 s to 1/100,000 s
Lens	1.05 mm @ F2.2, horizontal field of view: 180°, vertical field of view: 180°
Lens Mount	M12
Day & Night	IR cut filter with auto switch
DNR	3D DNR
Wide Dynamic Range	120 dB
<b>Compression Standard</b>	
Video Compression	Main stream: H.265/H.264 Sub stream: H.265/H.264/MJPEG
H.264 Type	Main Profile/High Profile
H.264+	Support
H.265 Type	Main Profile
H.265+	Support
Video Bit Rate	32 Kbps to 16 Mbps
Audio Compression (-S)	G.711/G.722.1/G.726/MP2L2
Audio Bit Rate (-S)	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-128Kbps(MP2L2)
<b>Image</b>	
Max. Resolution	2560 × 1920
Main Stream	50Hz: 25fps (2560 × 1920, 2048 × 1536, 1280 × 960)
Max. Frame Rate	60Hz: 30fps (2560 × 1920, 2048 × 1536, 1280 × 960)
Sub Stream	50Hz: 25fps (352 × 288, 704 × 576)
Max. Frame Rate	60Hz: 30fps (352 × 240, 704 × 576)
Image Settings	Saturation, brightness, contrast, and sharpness are adjustable via client software or web browser
Image Enhancement	WDR/3D DNR/Backlight Compensation/Defog
Day/Night Switch	Auto/Schedule/Triggered by Alarm In (-S model supports)
Region of Interest	Support 1 fixed region for each stream
Lens Distortion Correction	Support
Target Cropping	Support
<b>Live View Display</b>	
Mount Type	Support table, wall, and ceiling
Display Mode	Support 14 display modes in total (including display modes of different mount types): Fisheye View, 180 Panorama View, 4PTZ, Fisheye + 3PTZ, 360 Panorama View, 360 Panorama + PTZ, 360 Panorama + 3PTZ, 360 Panorama + 6PTZ, 360 Panorama + 8PTZ, 2PTZ, Fisheye + 8PTZ, Panorama View, Panorama + 3PTZ, Panorama + 8PTZ
<b>Audio (-S)</b>	
Environment Noise Filtering	Support
Audio I/O	Support
Sampling Rate	Max. 48kHz
<b>Network</b>	
Network Storage	NAS (Support NFS,SMB/CIFS), built-in microSD/SDHC/SDXC card slot, up to 128 G, ANR





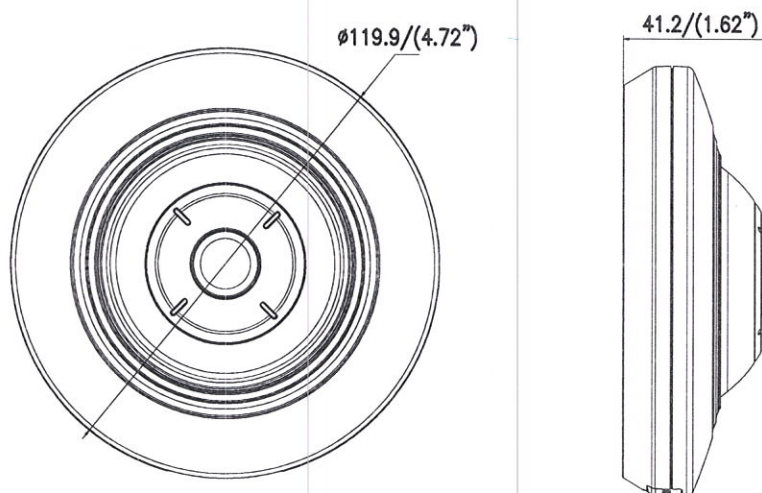
Alarm Trigger	Video tampering alarm, HDD full, HDD error, network disconnected, IP address conflicted, illegal login
Detection	Motion detection, dynamic analysis, intrusion detection, line crossing detection
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6
Standard	ONVIF (PROFILE S, PROFILE G), PSIA, CGI, ISAPI
General Function	One-key reset, anti-flicker, password protection, privacy mask, IP Address filtering, heartbeat, watermark
<b>Interface</b>	
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Audio (-S)	1 audio input (line in), 1 audio output interface
Alarm (-S)	1 alarm input, 1 alarm output (DC24V, 1A or AC110V, 500mA, max.)
On-board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 G
<b>General</b>	
Operating Conditions	-10 °C to +50 °C (-14 °F to +122 °F), Humidity 95% or less (non-condensing)
Power Supply	DC 12V ± 25%, 2A, 5W PoE(802.3af 36-57V, class 3), 0.4 – 0.7 A, 6.7W
IR Range	Up to 8 m
Dimensions	Φ 119.9 × 41.2 mm (Φ 4.72" × 1.62")
Weight	600 g (1.32 lbs.)

## Available Models

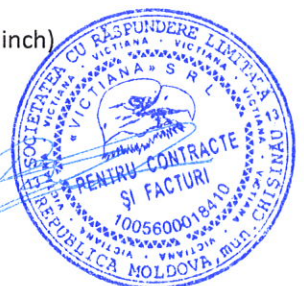
DS-2CD2955FWD-I, DS-2CD2955FWD-IS

*With -S model: supports 1 audio input, 1 audio output, 1 alarm input, 1 alarm output.*

## Dimensions



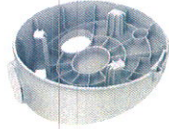
Unit: mm(inch)



**Accessories**



**DS-1294ZJ**  
Wall mount



**DS-1281ZJ-DM27**  
Inclined ceiling mount



**DS-1297ZJ**  
Pendant mount  
(extendable)



**DS-1299ZJ**  
Pendant mount

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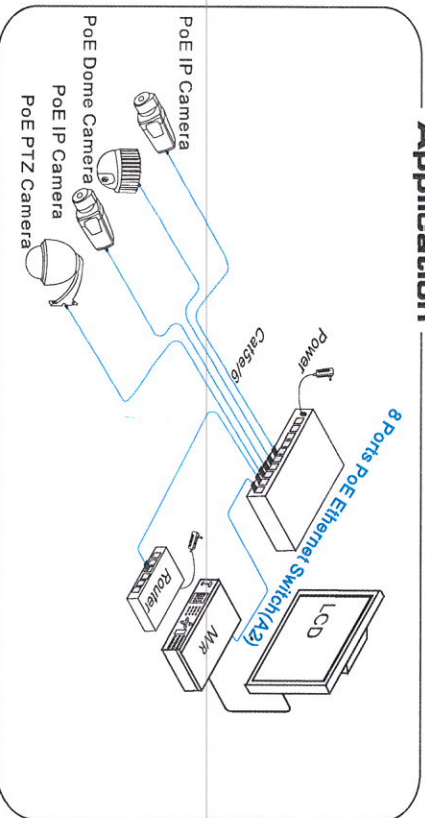
# 8 Ports PoE Ethernet Switch

## User Manual

ID: A2  
VerB 1.0

The 8 ports PoE Ethernet Switch with 8 downlink PoE ports and double 1000Mbps uplink ports is a security surveillance Ethernet Switch which is applied in high definition network surveillance and security system. The product fully combines the characteristics of security surveillance, provides fast packet forwarding rate and up to 7G backbone bandwidth, which ensures clear image and fluent video transmission. Besides, the 8 downlink PoE ports support IEEE802.3af/at standard, and the double 1000Mbps uplink ports are reliable assurance for connection between the surveillance system and external network connection. The 9th uplink PoE port designing simplifies the surveillance video wall installation that can be interlinked together. The ESD, 6KV lightning protection and surge protection circuits improve product stability. Also the device supports one key CCTV mode which realizes VLAN function, restrains the network storm, protects the information security, prevents the virus spread and cyber attack, fully satisfies the Ethernet video security surveillance system and Ethernet projects needs.

### Application



### Feature

- Major ports 2\* Gigabit uplink Ethernet ports, which design is convenient to connect external network system; In addition the 9th port is PoE Ethernet port, which broadens the using field; 8\* 10/100Mbps downlink PoE Ethernet ports, each of them supports MDI/MDIX;
- Special Function One Key CCTV Mode: Support VLAN and restrain network storm; 1~8 downlink ports can only communicate with uplink ports; the further transmission distance up to 250m in CCTV mode with the transmission speed rate 10Mbps;
- Input Power DC48V~57V;
- Transmission Distance: In Default mode, the distance of Ethernet port is 100m; in CCTV mode, the distance of downlink 1~8 ports up to 250m;
- Standard Accord with IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.3at standard; PoE meets End-Span;
- Protection superior lightning protection up to 6KV, excellent ESD protection and anti-interference ability.

### Notice

The transmission distance depends on the signal source and cable quality; standard Cat5e/6 Ethernet cable is strongly suggested for reaching the maximum transmission distance!

### Board diagram

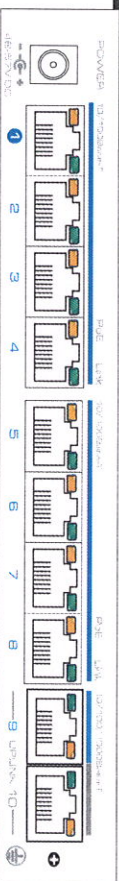
#### Front board



Surveillance Module Indicator Light

Power LED

#### Back board



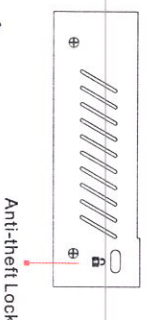
Power Input Port

POE Downlink Ethernet Port

Uplink Ethernet Port  
(9th PoE port)

Grounding

#### Side board



Anti-theft Lock

### Notice

- 1) Device must be connected with lightning protection grounding; otherwise protection level will be greatly reduced; please use above No.20 wire to connect the grounding terminal;
- 2) The device requires rebooting after the dial switch has been utilized.

### Installation steps

Please check the following items before installation, if it is missing, please contact the dealer.

- 8 Ports PoE Ethernet Switch 1pcs
- Power Adapter 1pcs
- AC Power Cable 1pcs
- Accessory 1pcs
- User Manual 1pcs

Please follow installation steps as below:

- 1) Turn off the power of all the related devices before the installation; otherwise the device would be damaged;
- 2) Use Ethernet cable connect PoE IP camera and 1~8 downlink ports of product respectively;
- 3) Use an Ethernet cable to connect equipment uplink port with NVR or computer;
- 4) Connect power adapter;
- 5) Check if the installation is correct; equipment is in good condition, the connection is stable; the power on for system.





## Specification

Item	Description
Power	Power Supply Power Adapter DC48V~57V
	Voltage Range DC48V~57V
	Power Consumption <5W
Port Parameter	Rate 1~8 Downlink Ethernet port:10/100Mbps 9~10uplink Ethernet port:10/100/1000Mbps
	Transmission Distance Downlink Ethernet port:0~250m ( CCTV ) 0~100m (Default) Uplink Ethernet port:0~100m
	POE Ports RJ45 Ports with 30u Gold-plated Flattened Pin,Satisfy 802.3a/1at Standard,Compatible with Mid-Span and End-Span
Ethernet Exchange	Ethernet Standard IEEE 802.3/802.3u/IEEE802.3 a/1at
	Backplane Bandwidth 7G
	Packet Forwarding Rate 4,166Mbps
	Data Package Cache 1.5Mb
	MAC 4K
Indicator LED	Power LED 1pcs (Red)
	Ethernet PortLED 2pcs (Yellow& Green) on RJ45, Yellow Indicates PoE, Green Indicates Link/Act
	Surveillance Mode LED 1pcs(Green), Green Indicates CCTV
Protection Level	EFT Level 2 Per: IEC6 1 000-4-4
	ESD Level 3 Per: IEC6 1 000-4-2
	Lightning Protection 6KV Per: IEC6 1 000-4-5
Environment	Operation Temperature -10°C~+55°C
	Storage Temperature -40°C~+85°C
	Humidity(non-condensing) 0~95%
Mechanics	Dimensions(LxWxH) 200mm x 101.8mm x 27mm
	Material Metal
	Color Black
	Weight 500g

Product specifications subject to change without prior notice.

## Trouble shooting

If any trouble in installation, please follow these steps:

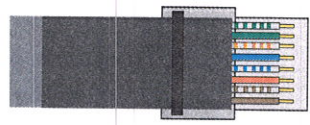
- Please make sure you have followed the instruction to install the device;
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards;
- The power supply of each PoE port is no more than 30W; please do not connect the PoE device which exceeds the maximum PoE power supply;
- Please replace a failure device with a proper one to check if the device is broken;

## RJ 45 Making Method

Instruments to be used: wire crimpier, network tester, Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

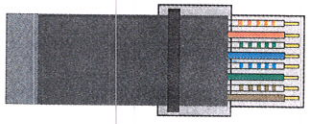
- 1) Shuck off about 2cm long the insulating layer, and bare the 4 pairs UTP cable;
- 2) Depart the 4 pairs UTP cable and straighten them;
- 3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
- 4) Cut out 1.5 cm cable wrap and leave the bare wire;
- 5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
- 6) Then use wire crimpier to crimp it;
- 7) Follow the 5 steps above to make the another end, following the same sequence of the first plug;
- 8) Using network tester to test the cable whether is working.

Pin Color
1 white/green
2 green
3 white/orange
4 blue
5 white/blue
6 orange
7 white/brown
8 brown



EIA/TIA 568A

Pin Color
1 white/orange
2 orange
3 white/green
4 blue
5 white/blue
6 green
7 white/brown
8 brown



EIA/TIA 568B



### Notice

- When choose RJ-45 make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A.
- When choose RJ-45 make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B.





Technology	Solid state relay (Triac) tap change – Zero cross transfer technology		
Response Time	< 50ms		
Material of Front Panel	Plastic		
Material of Cabinet	Metal		
Input	Input Voltage	140-270V / 100-270V	
	Input Frequency	45-65Hz	
	Rated Output Voltage	220V / 230V	
Output	Output Voltage Range	±4% / ±10%	
	Output Frequency	Same as input frequency	
Efficiency	>95%		
Display	Digital Display	Input voltage, output voltage, loading rate (%)	
	Icon Display	Delaying, overload, over voltage protecting, under voltage protecting	
LED Indicators	Green LED	Flashing "H": Over voltage protecting	
	Yellow LED	Flashing "L": Under voltage protecting	
	Red LED	Flashing "E": Seriously overloaded like 4-5 times Steady "E": output voltage is out of range while input voltage is within normal range Flashing "P": overloaded Flashing "C": over temperature protection for Triac Flashing "T": over temperature protection for transformer Flashing "F": frequency is out of range	
Protection	Power On Delaying (Output is being suppressed) Protecting (Output is cut off)		
Cooling Fan	For Triac For Transformer	Over voltage, under voltage, overload, over temperature of Triac & transformer, short circuit, out of frequency. Yes	
Manual Bypass Switch (Optional)	Optional for 500VA-5000VA, standard for 8000VA-10000VA		
USB Charging Port (Optional)	Only available for 3000VA-10000VA 5VDC, 1000mA		
Delay Time	6s / 180s selectable		
Certification	CE, SON, CB, SASO		
Color	White, black, grey, red, silver, blue		
Operating Conditions	Operating Temperature	0°C ~ +40°C	
	Storage Temperature	-15°C ~ +45°C	
	Operating Humidity	10%-90%, non-condensing	

Model No.	TVR-131-3000VA	TVR-131-5000VA	TVR-131-8000VA	TVR-131-10000VA
Capacity	3000VA / 1800W	5000VA / 3000W	8000VA / 4800W	10000VA / 6000W
N.W.	11.3kgs	13.1kgs	21.6kgs	23.0kgs
Machine Size	W230 x H360x D192 mm			
Inner Box Size	L408 x W345 x H243 mm			
Carton Size	L425 x W362 x H265 mm			
Qty/ Ctn	2pcs			1pc





## DS-MH2311 Series Body Camera

### Introduction

DS-MH2311 Series Body camera, a video recording system, is typically used by law enforcement officers to record their interactions with the public and gather video evidences at crime scenes.



### Key Features

- H.264 and H.265 encoding technology.
- Up to 1080p/30 fps recording resolution.
- Wide-range lens with 129° horizontal FOV.
- Dismountable battery design.
- Built-in GPS module.
- 3G/4G network transmission.
- 2.4 inch TFT LCD.
- Light weight (190 g without shoulder clip).
- Small size (95 × 60 × 29 mm)
- IP67.

### Available Models

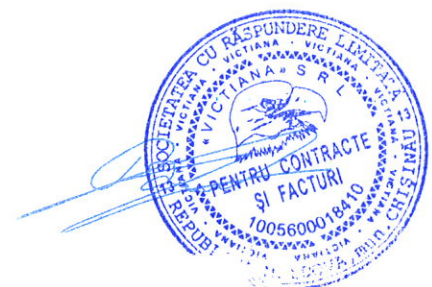
DS-MH2311/32G, DS-MH2311/32G/GLE



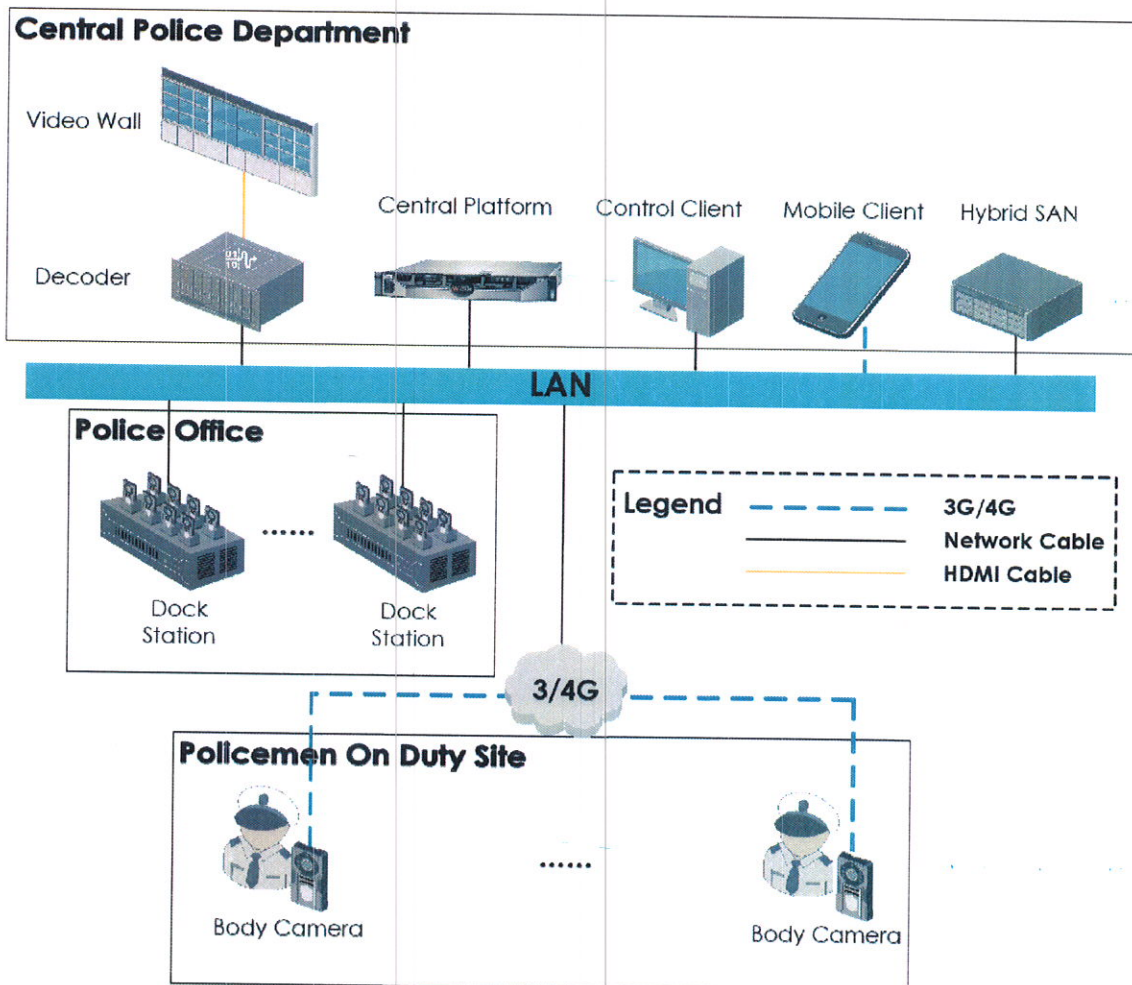


## Specifications

Model		DS-MH2311/64G	DS-MH2311/64G/GLE	
Sensor	Type	1/3" CMOS		
	FOV	Horizontal FOV: 129°		
Display	Dimensions	2.4" TFT LCD		
	Video Input	1080p		
Video Parameters	Video Resolution	1920 × 1080, 1280 × 720, 720 × 576		
	Main Stream	1080p/30 fps		
	Sub-stream	720p/30 fps		
	Video Format	.mp4		
	Picture Resolution	Up to 30 MP		
	Picture Format	.jpg		
	Shutter	Digital shutter		
	Day & Night	IR cut filter with auto switch		
	White Balance	Auto		
	Flashing Light	Supported		
	Laser Positioning	Supported		
	Storage	Capacity	64G TF card	A built-in EMMC storage chip of 64 GB capacity
	Positioning	Satellite Positioning	Built-in GPS module	
	Network Transmission	4G	Not supported	Frequency band: FDD LTE: Band 1, Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 20 WCDMA/HSDPA/HSUPA/HSPA+: Band 1, Band 2, Band 5, Band 8 GSM/GPRS/EDGE: 850 MHz/900 MHz/1800 MHz/1900 MHz
Wi-Fi		802.11b/g/n		
General	Working Temperature	-20 °C to +55 °C (-4 °F to +131 °F)		
	Working Humidity	≤ 90%		
	Ingress Protection Level	IP67		
	Dimensions (L × W × H)	95 × 60 × 29 mm (3.7 × 2.4 × 1.1 inch)		
Others	Weight	Body camera: 190 g (without should clip) (0.4 lb) With package: 515 g (1.1 lb)		
	Buttons	Power switch, Recording button, taping button, capture button two-way audio button, alarm button, menu button, up button, down button, OK button.		
	USB Interface	Mini USB 2.0		
	Battery	Charging via USB interface/dock station A dismountable battery with 3,300 mAh capacity which can record videos up to 8 hours.		

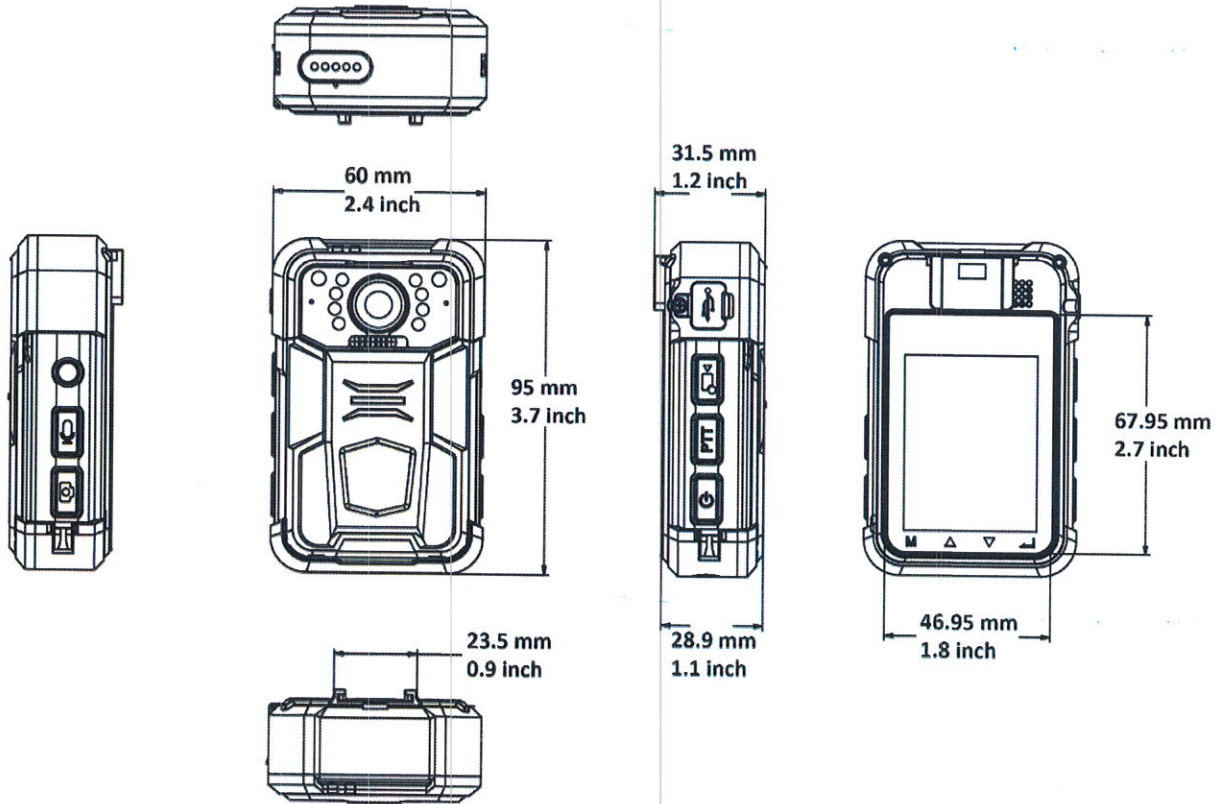


### Typical Application





**Dimensions**



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## Specification

Model		DS-MH4172I
Data Collection	Average Speed	8 MB/s
	Dimension	400 × 300 × 110 mm (15.7 × 11.8 × 4.3")
Appearance	Body Camera	Up to 8 body cameras
	System indicator	1 × power indicator, 1 × HDD indicator, 1 × network connection indicator, 1 × network transmission indicator, 8 × status indicator
	Button	1 × power switch, 1 × reset button
	CPU	Quad core CPU
Hardware	Memory	4 GB
	HDD	4 × 3.5 inch HDD. 2 TB to 6 TB for each HDD
	Charging Duration for Body Camera	4 to 5.5 hours
	Operation System	Windows 10, 64-bit
	Power Consumption	200 W
	USB Interface	2 × USB 3.0 interface, 2 × USB 2.0 interface
	HDMI Interface	2
Interface	Audio Input/output	1/1
	VGA Interface	1
	Network Interface	2 × 10M/100M/1000M Ethernet interface
	Loudspeaker	2
	Weight	Approx. 9 kg (19.8 lb)
General	Working Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
	Working Humidity	10% to 90%

Distrib

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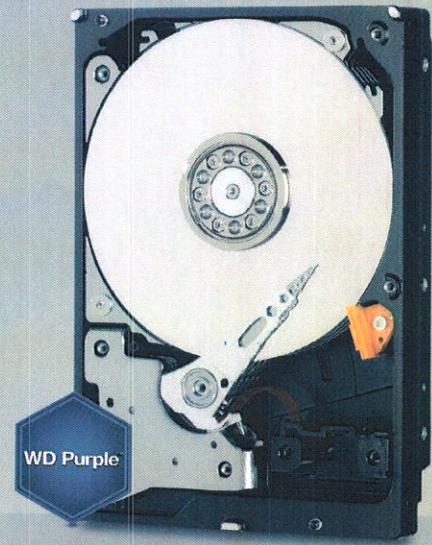




# WD Purple™

## Surveillance Hard Drives

WD Purple™ drives are built for 24/7, always-on, high-definition security systems. With a supported workload rate\* of up to 180 TB/yr and support for up to 64 cameras, WD Purple™ drives are optimized for surveillance systems. WD Purple™ surveillance storage also comes with WD's exclusive AllFrame 4K™ technology, so you can confidently create a security system tailored to the needs of your business. Using AllFrame 4K™ technology, WD Purple™ drives improve ATA streaming to help reduce errors, pixelation, and video interruptions that could happen in a video recorder system.



### INTERFACE

SATA 6 Gb/s

### FORM FACTOR

3.5-inch

### PERFORMANCE CLASS

5400 RPM Class

### CAPACITIES

500GB to 10TB

### MODEL NUMBERS

WD100PURZ	WD30PURX
WD80PUZX	WD20PURX
WD40PURX	WD15PURX
WD50PURX	WD60PURX
WD40PURX	

## Product Features

### The right drive for the right job

WD Purple™ drives have been engineered specifically for surveillance, so they're able to withstand the extreme heat fluctuations and equipment vibrations within a NVR environment. An average desktop drive is built to run for only short intervals, not the harsh 24/7 always-on environment of a high-definition surveillance system. A disruption to a drive could result in a failure that impacts multiple users, your security archive, or even the entire system. With WD Purple™, you get reliable, surveillance-class storage that's tested for compatibility in a wide-range of security systems.

### Industry-leading storage. Surveillance you can trust.

WD is a worldwide leader in the hard drive industry. With WD Purple™ surveillance storage, you have a drive engineered for high temperature, always-on surveillance systems so you can rely on quality video playback when you need it most. Whether you're protecting loved ones or monitoring your business, WD Purple™ offers performance you can trust.

### Wide compatibility. Seamless integration.

WD Purple™ hard drives are built with compatibility in mind, so you can quickly and seamlessly add capacity to your surveillance system. With a wide range of industry-leading enclosures and chipsets supported, you're sure to find the DVR configuration that's right for you.\*\*

\*\*Not sure what drive is best for your system? Use our compatibility tool to find the perfect storage for your DVR or NVR.

### Expand your view to 64

Each WD Purple™ drive is optimized to support up to 64 cameras. With so many options, you have the flexibility to upgrade or expand your security system in the future.

### Trust your view with AllFrame 4K™

Missed frames and lost footage could be a serious problem when video surveillance needs to be retrieved. All WD Purple™ drives are equipped with AllFrame 4K™ technology, which improves ATA streaming to help reduce frame loss, improve overall

video playback, and increase the number of hard drive bays supported within a NVR.

### Features:

- Engineered specifically for surveillance security systems.
- Three times the workload rating of our desktop hard drives\*.
- Tuned for write-intensive, low hit-rate, high stream-count applications typical to most surveillance applications.
- Prioritized write operations for maximized surveillance performance.
- Full R & A streaming support.
- Support for more than eight bays.\*\*

\*Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred X8760 / recorded power-on hours). Workload Rate will vary depending on your hardware and software components and configurations.

\*\*For capacities 4TB and higher.

### Less power. More efficient.

Low power consumption is a necessity in a high-temperature, always-on surveillance environment. With our exclusive IntelliSeek™ technology, WD Purple™ drives are able to calculate optimum seek speeds. This keeps power consumption low so ambient noise and vibrations are at a minimum.

### Three year limited-warranty

As an industry-leading hard drive manufacturer, WD stands behind their surveillance storage solutions. With a 3-year limited warranty included with every WD Purple™ drive, you can rely on your surveillance system's data storage capabilities.

## The WD Advantage

At WD, we put our products through extensive Functional Integrity Testing (FIT™) prior to any product launch. This testing ensures our products consistently meet the reliability standards of the WD brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our 24-hour support lines have long operational hours to ensure you get the help you need when you need it. Our toll-free customer support lines are here to help or you can access our WD Support site for additional details.







# WD Purple™

Specifications	10TB	8TB	6TB	5TB	4TB	3TB	2TB
Model number <sup>1</sup>	WD10PURZ	WD8PURZ	WD6PURX	WD5PURX	WD40PURX	WD30PURX	WD20PURX
Formatted capacity <sup>2</sup>	10TB	8TB	6TB	5TB	4TB	3TB	2TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant <sup>3</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>							
Interface transfer rate (max) <sup>4</sup>							
Buffer to host	6 Cb/s	6 Cb/s	6 Cb/s	6 Cb/s	6 Cb/s	6 Cb/s	6 Cb/s
Host to/from drive (sustained)	210 MB/s	178 MB/s	175 MB/s	170 MB/s	150 MB/s	145 MB/s	145 MB/s
Cache (MB) <sup>5</sup>	256	128	64	64	64	64	64
Performance Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class
<b>Reliability/Data Integrity</b>							
Load/unload cycles <sup>6</sup>	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>7</sup>	3	3	3	3	3	3	3
<b>Power Management</b>							
Average power requirements (W)							
Read/Write	6.2	6.4	5.3	5.3	5.1	4.4	4.4
Idle	5.0	5.7	4.9	4.9	4.8	4.1	4.1
Standby and Sleep	0.5	0.7	0.4	0.4	0.4	0.4	0.4
<b>Environmental Specifications<sup>8</sup></b>							
Temperature (°C, on the base casting)							
Operating	0 to 65	0 to 65	0 to 65	0 to 65	0 to 65	0 to 65	0 to 65
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)							
Operating (2 ms, read/write)	30	30	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65	65	65
Non-operating (2 ms)	250	250	250	250	250	250	250
Acoustics (dBA) <sup>9</sup>							
Idle	20	20	25	25	25	23	23
Seek (average)	29	29	26	26	26	24	24
<b>Physical Dimensions</b>							
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± 0.1 in.)	4.710/119.6	4.710/119.6	4.710/119.6	4.710/119.6	4.710/119.6	4.710/119.6	4.710/119.6
Weight (lb./kg, ± 10%)	1.45/0.65	1.45/0.65	1.65/0.75	1.65/0.75	1.50/0.68	1.40/0.64	1.40/0.64

<sup>1</sup> Not all products may be available in all regions of the world.

<sup>2</sup> As used for storage capacity: one megabyte (MB) = one million bytes; one gigabyte (GB) = one billion bytes; one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabyte per second (Gb/s) = one billion bytes per second. Effective maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit [www.sata-io.org](http://www.sata-io.org) for details.

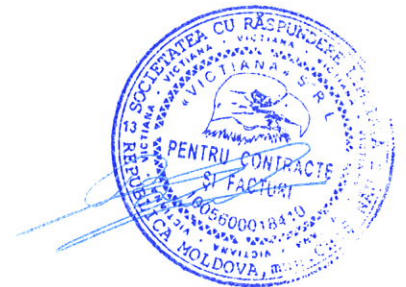
<sup>3</sup> WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

<sup>4</sup> Controller workload at single function.

<sup>5</sup> See <http://support.wd.com/warranty> for regional specific warranty details.

<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>7</sup> Sound power level.





# WD Purple™

Specifications	1TB	500GB
Model number <sup>1</sup>	WD10PURX	WD500PURX
Formatted capacity <sup>2</sup>	1TB	500GB
Form factor	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes
RoHS compliant <sup>3</sup>	Yes	Yes
<b>Performance</b>		
Interface transfer rate (max) <sup>4</sup>		
Buffer to host	6 Gb/s	4 Gb/s
Host to/from drive (sustained)	110 MB/s	110 MB/s
Cache (MB)	64	64
Performance Class	5400 RPM Class	5400 RPM Class
<b>Reliability/Data Integrity</b>		
Load/unload cycles <sup>4</sup>	100,000	100,000
Non-recoverable read errors per bits read	1 in 10 <sup>14</sup>	1 in 10 <sup>14</sup>
Limited warranty (years) <sup>5</sup>	3	3
<b>Power Management</b>		
Average power requirements (W)		
Read/Write	3.3	3.3
Idle	2.9	2.9
Standby and Sleep	0.4	0.4
<b>Environmental Specifications<sup>6</sup></b>		
Temperature (°C, on the base casting)		
Operating	0 to 45	0 to 65
Non-operating	-40 to 70	-40 to 70
Shock (Gs)		
Operating (2 ms, read/write)	20	20
Operating (2 ms, read)	65	65
Non-operating (2 ms)	350	350
Acoustics (dBA) <sup>7</sup>		
Idle	21	21
Seek (average)	22	22
<b>Physical Dimensions</b>		
Height (in./mm, max)	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147
Width (in./mm, ±.01 in.)	4.131/6	4.131/6
Weight (lb./kg, ± 10%)	0.99/0.45	0.99/0.45

<sup>1</sup> Not all products may be available in all regions of the world.

<sup>2</sup> As used for storage capacity: one megabyte (MB) = one million bytes; one gigabyte (GB) = one billion bytes; one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = one million bytes per second; 1 MB/s = one million bytes per second, and gigabyte per second (GB/s) = one billion bytes per second. FIT is maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization. For details, see [www.serialata.org](http://www.serialata.org).

<sup>3</sup> WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

<sup>4</sup> Controller is located at the end of the drive.

<sup>5</sup> See <http://support.wd.com/warranty> for regional specific warranty details.

<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>7</sup> Sound power level.

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+86.21.2403.7460 (Asia Pacific)

02.80.1.275.49335 (toll free where available)

+31.850062100 (Europe/Middle East/Africa)



CAN ICES-3 (B) / NMB-3 (B)

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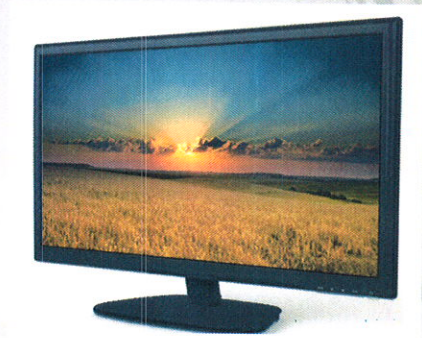
**DS-D5022QE-B  
22" LED Monitor**

**key Features**

- LED backlit technology with full HD 1920×1080
- Wide view angle: 170°(H)/160°(V)
- Multiply inputs: HDMI, VGA
- 3D comb filter, 3D De-interlace
- 3D noise reduction
- VESA stand bracket

**Model:**

DS-D5022QE-B

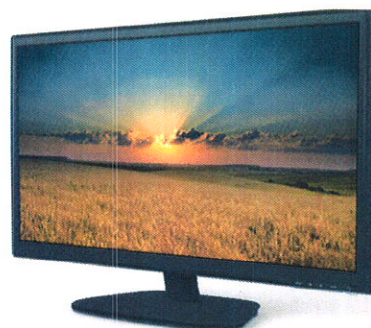


[www.hikvision.com](http://www.hikvision.com)





## DS-D5022QE-B 22" LED Monitor



### Specification

Model	DS-D5022QE-B
Display	
Display Type	LED-Backlit
Screen Size	22"
Pixel Pitch(H×V)	0.247mm ×0.247mm
Max Resolution	1920×1080
Brightness	250cd/m2 (Typical)
Contrast	1000:1
Response Time	5ms
Color	16.7M
Viewing Angle	Horizontal 170°, Vertical 160°
Interface	
HDMI	1
VGA	1
Mounting	
VESA	100mm × 100mm
General	
Power Supply	100 ~ 240V AC
Consumption	< 30W(on) < 0.5W(Standby)
Operation Temperature	0°C ~ 40 °C
Operating Humidity	10%~85% (No Condensation)
Storage Temperature	-20°C ~ 60°C
Storage Humidity	5%~95% (No Condensation)
Dimension (W×H×D)	511.4x313.0x45.4 (mm) 20.1x12.3x1.8(inch)
Weight	4.4Kg(Gross weight) , 3.2(Net weight)



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