

DH-XVR5108HS-I3

8CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder



WizSense

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.

Series Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-I3 Series featuring max.full-channel SMD Plus to benefit customers from AI upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

Functions

Real 5MP Mode

This mode can enhance XVR preview and playback resolution to Real 5MP. Enable more clarity image experience.

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

*Face Recognition takes effect when Face is selected in AI Mode.

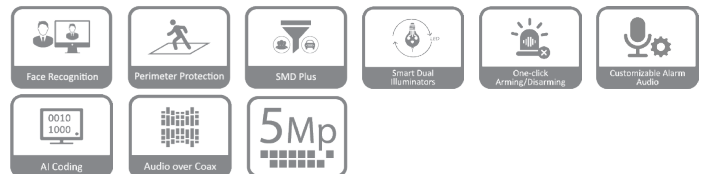
Perimeter Protection

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.

*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

*** The parameters and datasheets below can only be applied to Hardware Version 3.0.**

- H.265+/H.265 dual-stream video compression.
- Supports all-channel AI Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 12 channels IP camera inputs, each channel up to 6MP; Max 64 Mbps incoming bandwidth.
- Up to 4 channels video stream (analog channel) perimeter protection.
- Up to 8 channels video stream (analog channel) SMD plus.
- Up to 2 channels video stream (analog channel) human face recognition.
- IoT & POS functionalities.



SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

Smart Dual Illuminators

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of AI-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

One-click Arming/Disarming

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

Customizable Alarm Audio

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

AI Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

Audio over Coax

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Technical Specification

System

Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

Perimeter Protection

Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel
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Face Detection

Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 8 face images/s each channel)

Face Recognition

Face Database Capacity	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels

SMD Plus

SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change
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Audio and Video

Analog Camera Input	8 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect
Camera Input	1. CVI: 5MP@20fps, 5MP@25fps, 5MP@10/12.5fps, 4MP@25/30fps, 1080p@25/30fps, 720p@50/60fps, 720p@25/30fps. 2. TVI: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps. 3. AHD: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps
IP Camera Input	Up to 12 channels of IPC access 4 IP channels by default + 8 channels (analog channels are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled
Encoding Capacity	Main stream: 5MP Mode: 4-ch 5MP@(1-6fps); other channels 5M-N@(1-12fps) 5M-N Mode: All channel 5M-N@(1-12fps);4M-N,1080p@(1-15fps); 1080N, 720p, 960H, D1,CIF@(1-25/30fps) Sub stream: D1, CIF@(1-15fps)
Dual-stream	Yes
Video Bit Rate	32 kbps–6144 kbps
Audio Sampling	8 kHz, 16 bit

Audio Bit Rate	64 kbps
Video Output	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Samsung

Compression Standard

Video Compression	AI Coding; Smart H.265+; H.265; Smart H.264+; H.264
Audio Compression	G.711a; G.711u; PCM

Network

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; P2P; Auto Registration
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome IE9 or later Firefox
Network Mode	Single-address mode

Recording Playback

Record Mode	General, motion detection; intelligent; alarm; POS
Recording Playback	1/4/9 It changes to 1/4 split when Face or IVS&SMD is selected in AI Mode.
Backup Method	USB device and network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)

Alarm

General Alarm	Motion detection; video loss; video tampering
Anomaly Alarm	No disk; disk error; disk full; offline; IP conflict; MAC conflict
Intelligent Alarm	Face detection; face recognition; perimeter protection
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; voice prompt; buzzer; log; preset; email

Ports

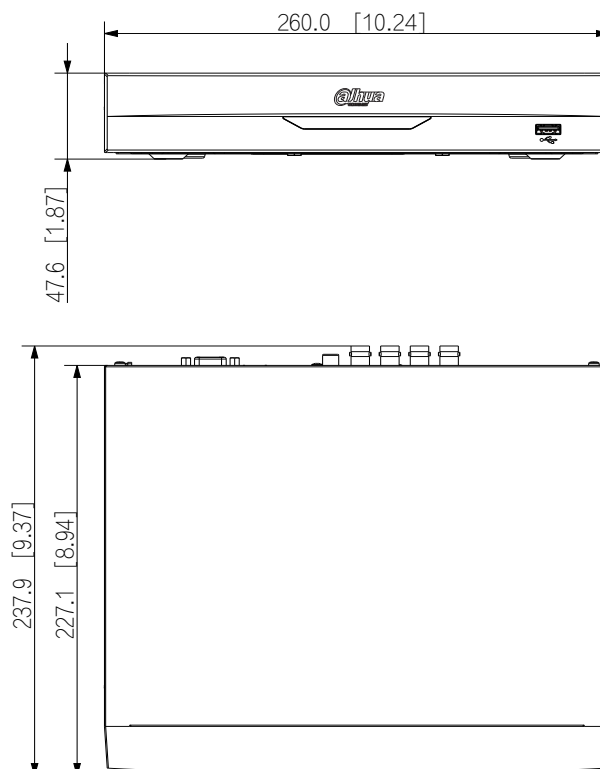
Audio Input	1-channel RCA 8-channel BNC (Coaxial Audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	1 SATA port, up to 16TB capacity. The maximum HDD capacity varies with environment temperature
RS-485	1 port, for PTZ control
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1

Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
General	
Power Supply	12 VDC, 2 A
Power Consumption	<7 W (without HDD)
Net Weight	0.97 kg (2.14 lb)
Gross Weight	1.39 kg (3.07 lb)
Product Dimensions	260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87") (W × D × H)
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm (13.12" × 3.51" × 12.41") (W × D × H)
Operating Temperature	−10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	−20 °C to +60 °C (−4 °F to +140 °F)
Operating Humidity	≤93% (RH)
Installation	Rack or desktop
Certifications	CE: CE-LVD: IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024, EN 55035

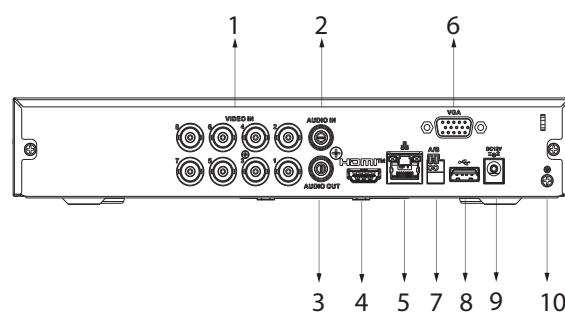
Ordering Information

Type	Model	Description
DIGITAL VIDEO RECORDER	DH-XVR5108HS-I3	8CH Penta-brid SMP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder

Dimensions (mm[inch])



Panels



- | | |
|----------------------------|---------------------------|
| 1 VIDEO IN | 2 AUDIO IN, RCA Connector |
| 3 AUDIO OUT, RCA Connector | 4 HDMI Port |
| 5 Network Port | 6 VGA Port |
| 7 RS-485 Port | 8 USB Port |
| 9 Power Input | 10 Ground |

DH-HAC-HDW1200TLMQ(-A)

2MP HDCVI Quick-to-install IR Eyeball Camera



- Max 30fps@1080P
- Quick-to-install eyeball saves installation time
- CVI/CVBS/AHD/TVI switchable
- 3.6mm fixed lens (2.8mm optional)
- Built-in mic(-A)
- Max. IR length 30m, Smart IR
- IP67, DC12V



System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Easy Installation

HDCVI Quick-to-install eyeball adopts quick-to-install pedestal, which can achieve easier installation than conventional eyeball. Quick-to-install camera reduces time and labor costs.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 800m(1080p)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification							Gain Control		Auto; manual
Camera							Noise Reduction		2D NR
Image Sensor		1/2.7 inch CMOS					Smart IR		Yes
Max. Resolution		1920(H)×1080(V)					Electronic Defog		Yes
Pixel		2MP					Mirror		Off/On
Scanning System		Progressive					Privacy Masking		Off/On (8 area, rectangle)
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s					Certifications		
S/N Ratio		>65dB					Certifications		
Min. Illumination		0.02Lux/F1.9, 30IRE, 0Lux IR on					CE (EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)		
Illumination Distance		30 m (98.4 ft)					Port		
Illuminator On/Off Control		Auto; manual					Audio Output		
Illuminator Number		1					One channel built-in mic (-A)		
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Video Output		
							Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Lens							Power		
Lens Type		Fixed-focal					Power Supply		
Mount Type		M12					12V ±30% DC		
Focal Length		2.8 mm; 3.6 mm					Power Consumption		
Max. Aperture		F1.9					Max 2.9W (12V DC, IR on)		
Field of View		2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical)					Environment		
Iris Type		Fixed iris					Operating Temperature		
							-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)		
Close Focus Distance		2.8 mm: 0.5 m (1.7 ft) 3.6 mm: 0.8 m (2.6 ft)					Storage Temperature		
							-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)		
Protection Grade		IP67					Structure		
							Casing		
							Metal dome+metal cover+plastic decorative ring		
Camera Dimensions		φ109.9 mm × 88.1 mm (φ4.33" × 3.47")					Net Weight		
							0.33 Kg (0.73 lb)		
Gross Weight		0.44 Kg (0.97 lb)							
Video									
Frame Rate		CVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; AHD: 1080P@25/30fps; 720P@25/30fps; TVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; CVBS: 960H							
Resolution		1080P (1920×1080); 720P (1280×720); 960H (960×576/960×480)							
Day/Night		Auto switch by ICR							
BLC		BLC/HLC/DWDR							
WDR		DWDR							
White Balance		Auto; manual							

Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HDW1200TLMQP-A 2.8mm	2MP HDCVI IR Eyeball Camera
	DH-HAC-HDW1200TLMQN-A 2.8mm	
	DH-HAC-HDW1200TLMQP 2.8mm	
	DH-HAC-HDW1200TLMQN 2.8mm	
	DH-HAC-HDW1200TLMQP-A 3.6mm	
	DH-HAC-HDW1200TLMQN-A 3.6mm	
	DH-HAC-HDW1200TLMQP 3.6mm	
	DH-HAC-HDW1200TLMQN 3.6mm	
Accessories	PFA13G	Junction Box
	PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)
	PFA152-E	Pole Mount Bracket (For use with PFB205W)
	PFA130-E	IP66 Junction Box
	PFM800-E	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM820	UTC Controller
	PFM904	Integrated Mount Tester

Accessories

Optional:



PFA13G
Junction Box



PFB205W
Wall Mount Bracket
(For use alone or with
PFA152-E)



PFA152-E
Pole Mount Bracket
(For use with PFB204W)



PFA130-E
IP66 Junction Box



PFM800-E
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



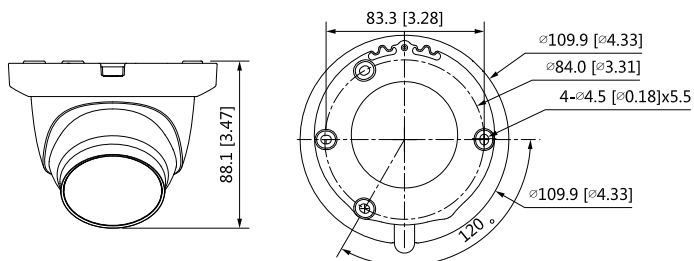
PFM820
UTC Controller



PFM904
Integrated Mount Tester

Junction Mount	Wall Mount	Ceiling Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])



DH-HAC-HFW1500TL

5MP Starlight HDCVI IR Bullet Camera



* The parameters and datasheets below can only be applied to 1500-S2 series.

- Max 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- Max. IR length 40 m, Smart IR
- IP67, 12V DC



System Overview

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance make the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m for 5MP HD video through coaxial cable, and up to 300 m through UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object comes closer to the camera.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu. This feature makes the camera compatible with most end users' existing HD/SD DVRs.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

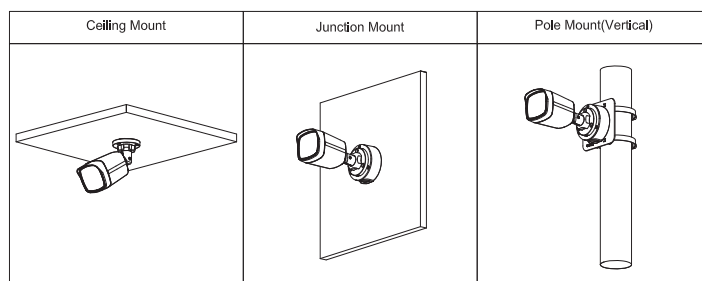
Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4kV lightning rating provides protection against the camera and its structure from the effects of lightning.

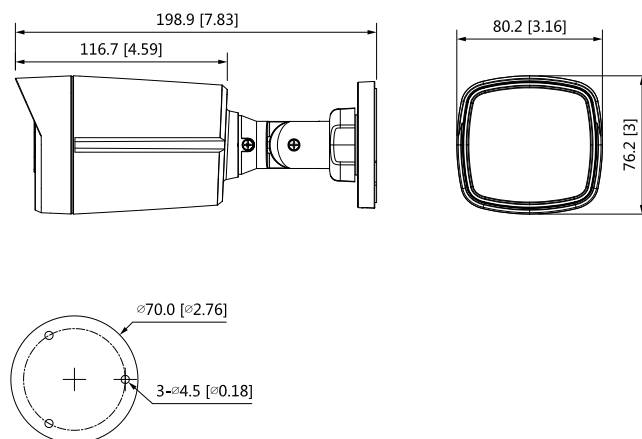
Technical Specification						BLC		BLC/HLC/DWDR	
Camera						WDR		DWDR	
Image Sensor		1/2.7 inch CMOS				White Balance		Auto; manual	
Max. Resolution		2880 (H) × 1620 (V)				Gain Control		Auto; manual	
Pixel		5MP				Noise Reduction		2D NR	
Scanning System		Progressive				Smart IR		Yes	
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s				Mirror		Off/On	
S/N Ratio		> 65dB				Privacy Masking		Off/On (8 areas, rectangle)	
Min. Illumination		0.005 Lux/F1.6, 30IRE, 0 Lux IR on				Certifications			
Illumination Distance		40 m (131.2 ft)				CE (EN 55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010+A1:2015, EN 55035:2017, EN 50130-4:2011+A1:2014, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)			
Illumination On/Off Control		Auto; manual							
Illuminator Number		2							
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°							
Lens						Port			
Lens Type		Fixed-focal				Video Output			
Mount Type		M12							
Focal Length		2.8 mm; 3.6 mm; 6 mm				Power			
Max. Aperture		F1.6				Power Supply		12V ±30% DC	
Field of View		2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical)				Power Consumption			
		3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical)				Max 3.1W (12V DC, IR on)			
		6 mm: 65° × 57° × 30° (diagonal × horizontal × vertical)				Environment			
						Operating Temperature			
Iris Type		Fixed iris				Storage Temperature		–40°C to +60°C (–40°F to 140°F); < 95% (non-condensation)	
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft)				Protection Grade			
		3.6 mm: 1.6 m (5.2 ft)				IP67			
		6 mm: 3.1 m (10.2 ft)				Structure			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing			
	2.8 mm	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0ft)	Plastic throughout the whole casing			
	3.6 mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	Camera Dimensions			
	6 mm	120 m (393.7 ft)	48 m (157.5 ft)	24 m (78.7 ft)	12 m (39.4 m)	198.9 mm × 80.2 mm × 76.2 mm (7.83" × 3.16" × 3.00")			
Video						Net Weight		0.23 kg (0.50 lb)	
Frame Rate		CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H				Gross Weight			
Resolution		5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480)				0.42 kg (0.93 lb)			
Day/Night		Auto switch by ICR							

Ordering Information

Type	Part Number	Description
5MP Camera	DH-HAC-HFW1500TLP 2.8 mm	5MP HDCVI IR Bullet Camera
	DH-HAC-HFW1500TLN 2.8 mm	
	DH-HAC-HFW1500TLP 3.6 mm	
	DH-HAC-HFW1500TLN 3.6 mm	
	DH-HAC-HFW1500TLP 6 mm	
	DH-HAC-HFW1500TLN 6 mm	
Accessories	PFA134	Junction Box
	PFA130-E	IP66 Junction Box (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole Mount Bracket (For use with PFA130-E junction box)
	PFM800-4K	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])



Accessories

Optional:



PFA134
Junction Box



PFA130-E
IP66 Junction Box
(For use alone or with
PFA152-E pole mount)



PFA152-E
Pole Mount Bracket
(For use with PFA130-E
junction box)



PFM800-4K
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester



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
WD800PURX	WD20PURX
WD60PURX	WD10PURX
WD50PURX	WD05PURX
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 bit-rate, high stream-count applications typical to most surveillance applications.
- Prioritized write-operations for maximized surveillance performance.
- TLER & ATA 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 X(8760 / 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 (F.I.T.™) prior to any product launch. This testing ensures our products consistently meet the high quality and 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 customer 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.



Specifications	10TB	8TB	6TB	5TB	4TB	3TB	2TB
Model number ¹	WD100PURZ	WD80PUZX	WD60PURX	WD50PURX	WD40PURX	WD30PURX	WD20PURX
Formatted capacity ²	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 ³	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance							
Interface transfer rate (max) ² Buffer to host Host to/from drive (sustained)	6 Gb/s 210 MB/s	6 Gb/s 178 MB/s	6 Gb/s 175 MB/s	6 Gb/s 170 MB/s	6 Gb/s 150 MB/s	6 Gb/s 145 MB/s	6 Gb/s 145 MB/s
Cache (MB) ²	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
Reliability/Data Integrity							
Load/unload cycles ⁴	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁵	3	3	3	3	3	3	3
Power Management							
Average power requirements (W) Read/Write Idle Standby and Sleep	6.2 5.0 0.5	6.4 5.7 0.7	5.3 4.9 0.4	5.3 4.9 0.4	5.1 4.5 0.4	4.4 4.1 0.4	4.4 4.1 0.4
Environmental Specifications⁶							
Temperature (°C, on the base casting) Operating Non-operating	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250
Acoustics (dBA) ⁷ Idle Seek (average)	20 29	20 29	25 26	25 26	25 26	23 24	23 24
Physical Dimensions							
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, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb/kg, ± 10%)	1.43/0.65	1.43/0.65	1.65/0.75	1.65/0.75	1.50/0.68	1.40/0.64	1.40/0.64

¹ Not all products may be available in all regions of the world.

² As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and 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 gigabit per second (Gb/s) = one billion bits 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 for details.

³ 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.

⁴ Controlled unload at ambient condition.

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

⁶ No non-recoverable errors during operating tests or after non-operating tests.

⁷ Sound power level.



WD Purple™

Specifications	1TB	500GB
Model number ¹	WD10PURX	WD05PURX
Formatted capacity ²	1TB	500GB
Form factor	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes
RoHS compliant ³	Yes	Yes
Performance		
Interface transfer rate (max) ²		
Buffer to host	6 Gb/s	6 Gb/s
Host to/from drive (sustained)	110 MB/s	110 MB/s
Cache (MB) ²	64	64
Performance Class	5400 RPM Class	5400 RPM Class
Reliability/Data Integrity		
Load/unload cycles ⁴	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁵	3	3
Power Management		
Average power requirements (W)		
Read/Write	3.3	3.3
Idle	2.9	2.9
Standby and Sleep	0.4	0.4
Environmental Specifications⁶		
Temperature (°C, on the base casting)		
Operating	0 to 65	0 to 65
Non-operating	-40 to 70	-40 to 70
Shock (Gs)		
Operating (2 ms, read/write)	30	30
Operating (2 ms, read)	65	65
Non-operating (2 ms)	350	350
Acoustics (dBA) ⁷		
Idle	21	21
Seek (average)	22	22
Physical Dimensions		
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.)	4/101.6	4/101.6
Weight (lb/kg, ± 10%)	0.99/0.45	0.99/0.45

¹ Not all products may be available in all regions of the world.

² As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and 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 gigabit per second (Gb/s) = one billion bits 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 for details.

³ 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.

⁴ Controlled unload at ambient condition.

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

⁶ No non-recoverable errors during operating tests or after non-operating tests.

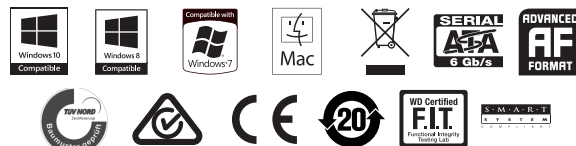
⁷ Sound power level.

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800.832.4778 Spanish
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00800.27549338 Europe
(toll free where available)
+31.880062100 Europe/Middle East/
Africa



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

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POE Power Supply Adapter

Model	CP1220-1A
AC input	AC110-240V 50/60Hz
DC output	DC12V 1A
Size	85*45*30mm



POE Power Supply Adapter

Model	CP1221-1A
AC input	AC110-240V 50/60Hz
DC output	DC12V 1A
Size	85*44*30mm



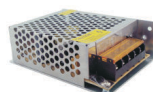
Switching Power Supply

Model	CP1207-1A
AC input	AC110-240V 50/60Hz
DC output	DC12V 1A
Size	70*40*30mm



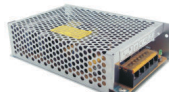
Switching Power Supply

Model	CP1207-2A
AC input	AC110-240V 50/60Hz
DC output	DC12V 2A
Size	85*58*32mm



Switching Power Supply

Model	CP1207-3A
AC input	AC110-240V 50/60Hz
DC output	DC12V 3A
Size	110*78*36mm



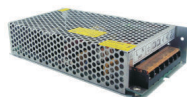
Switching Power Supply

Model	CP1207-5A
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	160*100*40mm



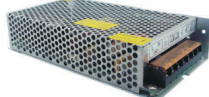
Switching Power Supply

Model	CP1207-10A
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	200*100*40mm



Switching Power Supply

Model	CP1207-15A
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	210*95*40mm



Switching Power Supply

Model	CP1207-20A
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	215*105*45mm



Switching Power Supply

Model	CP1208-30A
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	210*95*40mm



Switching Power Supply

Model	CP1208-40A
AC input	AC110-240V 50/60Hz
DC output	DC12V 40A
Size	210*95*40mm



Rainproof Power Supply

Model	CP1211-5A
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	105*180*48mm



Rainproof Power Supply

Model	CP1211-10A
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	220*105*50mm



Rainproof Power Supply

Model	CP1211-15A
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	225*105*50mm



Rainproof Power Supply

Model	CP1211-20A
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	205*120*55mm



Rainproof Power Supply

Model	CP1211-30A
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	245*145*65mm



5chs Centralized Power Supply

Model	CP1209-3A-4
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	165*165*50mm



5chs Centralized Power Supply

Model	CP1209-5A-4
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	165*165*50mm



9chs Centralized Power Supply

Model	CP1209-5A-9
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	240*210*55mm



9chs Centralized Power Supply

Model	CP1209-10A-9
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	240*210*55mm



18chs centralized Power Supply

Model	CP1209-10A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	320*215*65mm



18chs centralized Power Supply

Model	CP1209-15A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	320*215*65mm



18chs centralized Power Supply

Model	CP1209-20A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	320*215*65mm



18chs centralized Power Supply

Model	CP1209-30A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	320*215*65mm