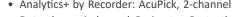


8-channel AcuPick 8K 8PoE Network Video Recorder

1U 2HDD WizSense





• Analytics+ by Recorder: AcuPick, 2-channel Face Detection and Face Detection+, 4-channel Perimeter Protection, and 8-channel Smart Motion Detection+

• Maximum Bandwidth of 384 Mbps Incoming/Recording/Outgoing

• Analytics+ by Camera: AcuPick, Face Detection, Face Detection+, Perimeter Protection, Smart Motion Detection+, ANPR, Stereo Analysis, Heat Map, and People Counting







System Overview

The N8 Series AcuPick NVRs offer outstanding performance and highgrade recording technology that make it ideal for IP video security applications. Its powerful processor supports high access and forwarding bandwidth and strong decoding capabilities to produce unimpeded streams. Thanks to its built-in analytics chip and Dahua's advanced deep learning algorithms, the NVR supports a variety of analytics functions. such as AcuPick, high-precision Face Detection+, and Perimeter Protection to shorten the response time to events and make videos more interactive. This NVR is compatible with numerous third-party devices, making it a great solution for security systems that work with Video Management Software (VMS).

Functions

AcuPick

Dahua effectively utilizes both front-end and back-end intelligence to realize AcuPick. AcuPick technology is a true video search engine that can quickly locate the information you need. Use it to find a lost individual, locate a specific vehicle, or pinpoint evidence of a suspect who's damaged another's property.

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires fewer pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Face Detection

Face Detection technology captures a human face in a digital image and then selects the best image and outputs a snapshot of the face.

Face Detection+

Face Detection+ technology identifies, tracks, and captures a human face in a digital image and then selects the best image and outputs a snapshot of the face. This technology identifies key facial features and obtains the contours of detected faces.

Heat Map

The built-in IVS features people counting and heat map functionality, advanced features that add business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and produces a configurable report. The system uses this data to produce a Heat Map, a two-dimensional representation of data that provides an immediate visual summary of activity. People Counting and Heat Maps can identify the most active areas of a retail space providing valuable data analysis for commercial applications.

Automatic License Plate Recognition

The NVR automatically captures and stores vehicle license plate images from a dedicated license plate capture camera connected to the NVR. During playback, an operator can perform a license plate search by Time and Date to view thumbnail images of all plates captured during the specified time period. License plate capture technology offers effective entrance/exit management, traffic monitoring, and parking lot monitoring.

Smart Motion Detection+

Smart Motion Detection, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected.

Technical Sp	ecification		Audio and Video			
System			Access Channel		8 Channels	
Main Processor		Industrial-grade Processor		Incoming	Analytics+ Disabled: 384 Mbps	
Operating System		Embedded Linux		o o	Analytics+ Enabled: 200 Mbps	
Operating System Operating Interface		Web, Local GUI	Network Bandwidth	Recording	Analytics+ Disabled: 384 Mbps Analytics+ Enabled: 200 Mbps	
Analytics+ Recording		Web, Edua doi		Outgoing	Analytics+ Disabled: 384 Mbps Analytics+ Enabled: 200 Mbps	
Recorder Functions		Face Detection, Face Detection+, Perimeter Protection, Smart Motion Detection+	Resolution		32MP, 24MP, 16MP, 12MP, 8MP, 5MP, 4MP, 1080p, 720p, D1, CIF, QCIF	
Camera Fuctions		Face Detection, Face Detection+, Perimeter Protection, Video Analytics (Human, Motor Vehicles, and Non-motor Vehicles), Smart Motion Detection+, Crowd Distribution, People Counting, Automatic License Plate Recognition (ANPR), Vehicle Dengity Host Man.	Decoding Capability	Analytics Disabled	2-channel: 32MP at 20 fps or 24MP at 20 fps 4-channel: 16MP at 30 fps 5-channel: 12MP at 30 fps 8-channel: 8MP at 30 fps	
Perimeter Protection Rec		Vehicle Density, Heat Map ording	Capability	Analytics	1-channel: 32MP at 20 fps or 24MP at 20 fps 2-channel: 16MP at 30 fps	
Recorder Channe		4 channels (10 IVS Rules per Channel)		Enabled	4-channel: 12MP at 30 fps or 8MP at 30 fps 8-channel: 5MP at 30 fps	
Camera Channel	S	8 Channels			1-channel VGA, 1-channel HDMI video output.	
Face Detect	ion		Video Output		Heterogeneous video source output for HDMI and VGA supports 4K display	
Face Attributes		Gender, Age Group, Glasses, Expressions, Face Mask, Beard	Multi-screen Main Scr		1/4/8/9	
Recorder Channe	els	2 Channels (Up to 12 Face Images Per Channel)	Display	Sub Screen	1/4/8/9	
Camera Channel		8 Channels	Third-party Can	nera Access	ONVIF, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung	
Face Detect	ion+		Compression	n Standard		
	Capacity	Up to 20 Databases with 200,000 Images (Max. 2.5 GB)	Video Compress	sion	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (Sub Stream Only)	
Face Database	A	Name, Gender, Birthday, Address, Credential Type,	Audio Compression		G.711a, G.711Mu, PCM, G.723, G.726, AAC	
Analytics		Credential Number, Country, Region, State	Recording F	Playback		
		8 Channels with Image Stream of 16 Images when the NVR is used for Face Detection+ functionality and the camera is used for Face Detection functionality 2. 2 channels with Image Stream of 12 Images	Multi-channel P		Up to 8 Channels	
			Record Mode		General, Motion Detection, Intelligent, Alarm, POS	
Recorder Channe	els		Backup Method		USB Device, Network	
Recorder Channels		when only the NVR is used for Face Detection and Face Detection+ functionality (No camera involvment for Face Detection or Face	Playback Mode		Instant Playback, General Playback, Event Playback, Tag Playback, Smart playback (Face and Motion Detection)	
		Detection+ functionality) 8 Channels when only the camera is used for	Storage			
Camera Channel	c	Face Detection and Face Detection + functionality	Disk Group		Yes	
Carriera Criannei	3	(No NVR involvement for Face Detection or Face Detection+ functionality)	Alarm			
Smart Motio	on Detection+	- (SMD+) Recording	General Alarm		Motion Detection, Privacy Masking, Local Alarm	
Recorder Channe	els	8 Channels with Secondary Filtering for False Alarm Reduction	Anomaly Alarm		Camera Offline, Storage Error, Disk Full, IP Conflict, MAC Conflict, Login Lock, Abnormal Fan Behavior, Cybersecurity Exception	
Camera Channel	S	8 Channels			Face Detection, Perimeter Protection, Face	
Video Analy	tics		Intelligent Alexan		Detection+, Video Analytics (Human, Motor	
Camera Channel	S	8 Channels	Intelligent Alarm		Vehices, Non-motor Vehicles), Smart Motion Detection+, Automatic License Plate Recognition	
Human Attribute	25	Top Color, Top Type, Hat, Bag, Age, Gender, Umbrella			(ANPR), Vehicle Density, Heat Map Record, Snapshot (Panoramic), Local Alarm	
Motor Vehicle At	ttributes	License Plate, Plate Color, Vehicle Model, Vehicle Logo, Plate Color, Ornament, Calling	Alarm Linkage		Output, IPC External Alarm Output, Access Controller, Audio, Buzzer, Log, Preset, Email	
Non-motor Vehicle Attributes		Vehicle Model, Vehicle Color, Number Of Persons, Helmet	Interface	land	1 shared DCA	
Vehicle License Plate Con			Audio	Input Output	1-channel RCA 1-channel RCA	
		8 channels		Input	4 channels	
ANPR Channels by Camera License Plate Database Canacity			Alarm	Output	2 channels	
License Plate Database Capacity 20,000 (Blocklist and Allow List) Network		HDD Interface		2 SATA ports, up to 16 TB each. The maximum HDD capacity varies with environment temperature.		
		HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; UDP; SNMP;	RS-232		1	
Network Protocol		NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE;	RS-485		1	
		FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P;	USB		2 (1 front USB 2.0 ports, 1 rear USB 3.0 ports)	
		Auto Registration	HDMI		1	
Mobile Phone Access		iOS, Android	VGA		1	
Interoperability		ONVIF 21.12 (Profile S/Profile T/Profile G), CGI, SDK	Network Port		1 (10/100/1000/2500 Mbps Ethernet port, RJ-45)	
Browser		Chrome, Edge, Firefox			8 Ports, 10/100 Mbps, IEEE 802.3 af/at,. 1-8 Ports	
2ome, Ed		, 0, 1	PoE Port		Support ePoE	

Electrical				
Power Supply	0–240 VAC, 47-63 Hz			
Power Consumption	≤ 10 W (without HDD), 130 W (PoE), 25.5 W (Single Port)			
Environmental				
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	10%-93% (RH)			
Certifications				
Safety	UL 62368-1 CAN/CSA C22.2 No.62368-1-14			
Electromagnetic Compatibility	FCC: 47 CFR FCC Part15, SubpartB, Class A EN 55032:2020, Class A EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019 EN 55024:2010+A1:2015 EN 55035:2020 EN 50130-4:2011+A1:2014			
Electrical				
Net Weight	2.57 kg (5.67 lb)			
Gross Weight	3.8 kg (8.38 lb)			
Product Dimensions (W x D x H)	375.0 mm × 329.4 mm x 53.0 mm (14.76 in. × 12.97 in. × 2.09 in.)			
Packaging Dimensions (W x D x H)	451.0 mm × 147.0 mm × 425.0 mm (17.76 in. × 5.79 in. × 16.73 in.)			
Installation	Rack or Desktop			

ePoE and EOC Transmission Distances

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 48 V

Maximum DC resistance $< 10 \Omega/100 \text{ m}$

Cable Length	Bandwidth	PoE Load Capacity	Hi-PoE Load Capacity	Working Mode
100 m (328 ft)	100 Mbps	25.5 W	53 W	IEEE/E100
200 m (656 ft)	100 Mbps	25.5 W	33 W	E100
300 m (984 ft)	100 Mbps	19 W	19 W	E100
400 m (1312 ft)	10 Mbps	17 W	17 W	E10
500 m (1640 ft)	10 Mbps	13 W	13 W	E10
800 m (2625 ft)	10 Mbps	7 W	7 W	E10

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 53 V

Maximum DC resistance < 10 Ω/100 m

Cable Length	Bandwidth	PoE Load Capacity	Hi-PoE Load Capacity	Working Mode
100 m (328 ft)	100 Mbps	25.5 W	53 W	IEEE/E100
200 m (656 ft)	100 Mbps	25.5 W	47 W	E100
300 m (984 ft)	100 Mbps	25.5 W	32 W	E100
400 m (1312 ft)	10 Mbps	23 W	26 W	E10
500 m (1640 ft)	10 Mbps	20 W	20 W	E10
800 m (2625 ft)	10 Mbps	13 W	13 W	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 48 V

Maximum DC resistance < 5 Ω/100 m

	,			
Cable Length	Bandwidth	PoE Load Capacity	Hi-PoE Load Capacity	Working Mode
100 m (328 ft)	100 Mbps	25.5 W	50 W	IEEE/E100
200 m (656 ft)	100 Mbps	25.5 W	30 W	E100
300 m (984 ft)	100 Mbps	18 W	18 W	E100
400 m (1312 ft)	100 Mbps	15 W	15 W	E100
500 m (1640 ft)	10 Mbps	12 W	12 W	E10
800 m (2625 ft)	10 Mbps	6 W	6 W	E10
1000 m (3281 ft)	10 Mbps	5 W	5 W	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 53 V

Maximum DC resistance $< 5 \Omega/100 \text{ m}$

Cable Length	Bandwidth	PoE Load Capacity	Hi-PoE Load Capacity	Working Mode
100 m (328 ft)	100 Mbps	25.5 W	52 W	IEEE/E100
200 m (656 ft)	100 Mbps	25.5 W	48 W	E100
300 m (984 ft)	100 Mbps	25.5 W	30 W	E100
400 m (1312 ft)	100 Mbps	20 W	23 W	E100
500 m (1640 ft)	10 Mbps	16 W	16 W	E10
800 m (2625 ft)	10 Mbps	10 W	10 W	E10
1000 m (3281 ft)	10 Mbps	8 W	8 W	E10

ePoE and EoC Applications

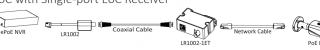
Pure Ethernet

epoE NVR

Ethernet Cable (CATSE/CAT6)



EoC with Single-port EoC Receiver



Pro Series | N82B2P

Ordering Information				
Туре	Part Number	Description		
	N82B2P	8 Channels 1U 8PoE 2HDD WizSense AcuPick Network Video Recorder		
	N82B2P4	8 Channels 1U 8PoE 2HDD WizSense AcuPick Network Video Recorder (4 TB)		
Network Video Recorder	N82B2P6	8 Channels 1U 8PoE 2HDD WizSense AcuPick Network Video Recorder (6 TB)		
	N82B2P8	8 Channels 1U 8PoE 2HDD WizSense AcuPick Network Video Recorder (8 TB)		
	N82B2P10	8 Channels 1U 8PoE 2HDD WizSense AcuPick Network Video Recorder (10 TB)		
ePoE Accessories	LR1002	EoC Passive Converter		
(Optional)	LR1002-1EC	Single-port EoC Receiver		

Accessories

Optional:





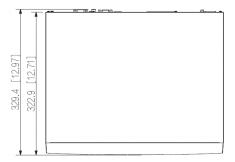
LR1002 **EoC Passive Converter**

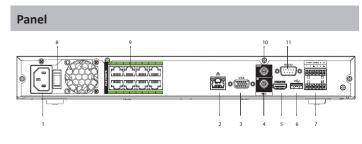
LR1002-1EC Single-port EoC Receiver

Dimensions

mm [in.]







- Power Input
 VGA Port
 HDMI Port
 Alarm In/Out
 PoE Ports
 RS-232 Port

- 2 Network Port
 4 MIC IN, RCA Connector
 6 USB Port
 8 Power Switch
 10 MIC OUT, RCA Connector