





PN3A-128FNH

128Ch NVR, 768Mbps, (2) NIC Cards, 16 HD Bays, Up to 16 Megapixel

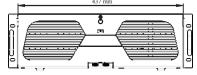
- Up to 16 Megapixel Resolution Recording
- 768 Mbps Bit Rate Input
- Supports up to 16 channel simultaneous playback
- Outputs 1 HDMI (8K/4K), 2 HDMI (4K)*, 1 HDMI (1080p), VGA (1080p)
- True Facial Recognition Capable with Compatible Camera: 6 Channels Total
- Smart Analytic Support/Including Al By ONVIF
- · H.265S/ H.265+/ H.265/ H.264
- 16 Hard Drive Bays
- (2) NIC Cards: Connect Cameras via Switch Behind Closed Network
- Local Fisheye Dewarping Capabilities
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) to manage multiple units & sites from a single platform
- Free MAC client software to easily manage your system from your Apple computer
- NDAA Compliant

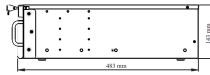
*If Using 8K on HDMI 1, HDMI 2 is Disabled

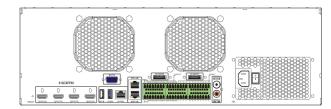
Model	PN3A-128FNH
System	
OS	Embedded Linux
Video	
IP Video Input	128CH
Network Bandwidth	Incoming: 768Mbps Outgoing: 768Mbps
Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/1280x- 1024/960P/720P/960H/D1/CIF
Output	HDMI1: 7680×4320@60, 7680×4320@30, 3840×2160@60, 3840×2160@30, 1920×1080, 1280×1024, 1024×768 (When the resolution of HDMI1output is 8K, HDMI2 is unavailable) HDMI2: 3840×2160@60, 3840×2160@30, 1920×1080, 1280×1024, 1024×768 HDMI3: 3840×2160@60, 3840×2160@30, 1920×1080, 1280×1024, 1024×768 HDMI4: 1920×1080, 1280×1024, 1024×768 VGA×1: 1920×1080, 1280×1024, 1024×768 VGA×1: 1920×1080, 1280×1024, 1024×768 (VGA and HDMI1 output the same video source)
Multi-screen Display	Main output: 1/4/6/8/9/13/16/25/32/36/64 AUX output 1: 1/4/6/8/9/13/16/25/32/36 AUX output 2: 1/4/6/8/9/13/16 AUX output 3: 1/4/6/8/9/13/16 Max. 132(64+36+16+16)
Compression	H.264/H.265/H.265+/H.265S
Network input	128CH
Local Input	RCA×1 (for two-way talk)
Local Output	RCA×1
HDMI Audio Output	Support
Compression	G.711(U/A)
Record	
Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/ 1280x 1024/960P/720P/960H/D1/CIF
Frame Rate	N:30fps P:25fps
Playback	
Simultaneous Playback	16CH
Search	Time slice/time/event/tag/smart search
Function	Play, pause, FF, Rewind, digital zoom, previous frame, next frame, etc.
Decoding Capability	
Live View	1CH 16MP@30 / 4 CH 12MP(only available for main output)

Ordering Information PN3A-128FNH: 128 Ch NVR

Alarm Mode Manual, sensor, motion, exception, smart events, etc. Input 24CH Output 8CH Triggering Record, snapshot, preset, e-mail, etc. Face Pace Detection Performance (Al by IPC) Face Recognition Performance (Al by IPC) Face Recognition Performance (Al by IPC) Face Recognition Performance (Al by Device) Face Recognition Performance (Al by IPC) Face Recognition Performance (Al by IPC) Face Recognition Performance (Al by IPC) Face Picture Database Jacuture Search Search by picture is supported Database Management Add, modify, delete and search face pictures Face Picture Search Search by picture is supported Database Management Add face pictures through APP, WEB and external import Supports successful face recognition alarm and stranger match alarm Track Track Track display on a map Statistical Graph of Information Statistical Graph of Information Statistical Mode of Information Statistical Mode of Information Whuman/Vehicle Classification (Al by IPC) Human/Vehicle Classification (Al by IPC) Human/Vehicle Classification (Al by IPC) Human/Vehicle Classification (Al by IPC) Up to 128CH Attribute Analysis Other Functions Fisheye Supports fisheye dewarping via NVR/Web Client/mobile APP Plate Recognition (Al by IPC) Up to 128CH Network Protocol TCP/IP, HTTP, HTTPS, 8021x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPRP, SMTP, IPV6, UDP, WebSocket, PPDE, SNMP, IGMP Interface Client Connection Max. 128 users access Mobile Device OS IOS, Android Storage HDD Interface SATA-16, Max 18TB per HDD RABIO Type RAID Type R	Playback	1CH 16MP@30 / 4CH 8MP(only available for main output)
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Triggering Record, snapshot, preset, e-mail, etc. Face Face Detection Performance (Al by IPC) Face Detection Performance (Al by IPC) Face Detection Performance (Al by IPC) Face Recognition Performance (Al by IPC) Face Recognition Performance (Al by Device) Face Picture Database Salibraries 10000 face pictures Face Picture Adding Face Picture Adding Face Picture Adding Face Picture Adding Face Picture Comparison Supports successful face recognition alarm and stranger match alarm Frack Statistical Graph of Information Statistical Mode of Information Statistics by day, week, month, quarter as well as customized time period Perimeter Protection Human/Vehicle Classification (Al by IPC) Human/Vehicle Classification (Al by IPC) Human/Vehicle Classification (Al by Device) Fisheye Fotocol Fisheye Fishey		
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Gro Non-True Face Rec Cameras	Face Detection Performance (Al by Device)	4CH (4MP)
Face Picture Database Face Picture Search Search by picture is supported Database Management Add, modify, delete and search face pictures Face Picture Adding Add face pictures through APP, WEB and external import Supports successful face recognition alarm and stranger match alarm Track Track Track display on a map Statistical Graph of Information Statistical Mode of Information Security All Statistical Mode of Information Statistical Mode of	Face Recognition Performance (for Non-True Face Rec Cameras)	16CH (Total Channels NVR can compute for facial recognition)
10000 face pictures	Comparison Capability	
Database Management Add, modify, delete and search face pictures Face Picture Adding Add face pictures through APP, WEB and external import Face Picture Comparison Supports successful face recognition alarm and stranger match alarm Track Track Track display on a map Statistical Mode of Information Bar graph Statistical Mode of Information Statistics by day, week, month, quarter as well as customized time period Perimeter Protection Human/Vehicle Classification (Al by IPC) Up to 128CH (Al by IPC) Human/Vehicle Classification (Al by Device) Second Level Human/Vehicle Attribute Analysis Other Functions Fisheye Supports fisheye dewarping via NVR/Web Client/mobile APP Plate Recognition (Al by IPC) Up to 128CH Network Protocol TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPnP, SMTP, IPV6, UDP, WebSocket, PPPOE, SNMP, IGMP Interface RJ45 10700/1000Mbps ×2 Client Connection Max. 128 users access Mobile Device OS IOS, Android Storage HDD Interface SATA×16, Max 18TB per HDD RAID Type RAID 0.15,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption 550W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate Environmental Protection Directive 94/62/EC and REACH(EC1907/2006)		10000 face pictures
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Face Picture Comparison Supports successful face recognition alarm and stranger match alarm Track Track Track (as graph) Statistical Graph of Information Statistical Mode of Information Statistical Mode of Information Statistics by day, week, month, quarter as well as customized time period Perimeter Protection Human/Vehicle Classification (Al by IPC) Human/Vehicle Classification (Al by IPC) Human/Vehicle Classification (Al by Device) Second Level Human/Vehicle Attribute Analysis Second Level Human/Vehicle Attribute Analysis Fisheye Supports fisheye dewarping via NVR/Web Client/mobile APP Up to 128CH Wes Supports fisheye dewarping via NVR/Web Client/mobile APP Up to 128CH NEtwork Protocol TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPoE, SNMP, IGMP Interface RJ45 10/100/1000Mbps ×2 Client Connection Max. 128 users access Mobile Device OS IOS, Android Storage HDD Interface SATA*16, Max 18TB per HDD RAID Type RAID Type RAID Type RAID Type RAID 0,1,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate Ervironmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	-	*
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Human/Vehicle Classification (Al by Device) Second Level Human/Vehicle Attribute Analysis Other Functions Fisheye Supports fisheye dewarping via NVR/Web Client/mobile APP Plate Recognition (Al by IPC) Network Protocol TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPOE, SNMP, IGMP Interface RJ45 10/100/1000Mbps ×2 Client Connection Max. 128 users access Mobile Device OS iOS, Android Storage HDD Interface SATA×16, Max 18TB per HDD RAID Type RAID 0.1,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption 550W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	Human/Vehicle Classification	Up to 128CH
Second Level Human/Vehicle Attribute Analysis Other Functions Fisheye Supports fisheye dewarping via NVR/Web Client/mobile APP Plate Recognition (AI by IPC) Network Protocol TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPoE, SNMP, IGMP Interface RJ45 10/100/1000/Mbps ×2 Client Connection Max. 128 users access Mobile Device OS iOS, Android Storage HDD Interface SATA×16, Max 18TB per HDD RAID 01,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption Sirver in ATX-275W Consumption Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate Environmental Protection Directive 94/62/EC and REACH(EC1907/2006)	Human/Vehicle Classification	8CH (2MP)
Other Functions Fisheye Supports fisheye dewarping via NVR/Web Client/mobile APP Plate Recognition (Al by IPC) Up to 128CH Network Protocol TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPoE, SNMP, IGMP Interface RJ45 10/100/1000Mbps ×2 Client Connection Max. 128 users access Mobile Device OS iOS, Android Storage HDD Interface SATA×16, Max 18TB per HDD RAID Type RAID 0,1,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption S50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	Second Level Human/Vehicle	Yes
Fisheye Supports fisheye dewarping via NVR/Web Client/mobile APP Plate Recognition (AI by IPC) Up to 128CH Network Protocol TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPoE, SNMP, IGMP Interface RJ45 10/100/1000Mbps ×2 Client Connection Max. 128 users access Mobile Device OS iOS, Android Storage HDD Interface SATA×16, Max 18TB per HDD RAID Type RAID 0,1,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	·	
Plate Recognition (AI by IPC)	Fisheye	Supports fisheye dewarping via NVR/Web Client/mobile APP
Network Protocol TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCI NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPoE, SNMP, IGMP Interface RJ45 10/100/1000Mbps ×2 Client Connection Max. 128 users access Mobile Device IOS, Android OS iOS, Android Storage HDD Interface HDD Interface SATA×16, Max 18TB per HDD RAID Type RAID 0,1,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Remote Controller Included Others Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	Plate Recognition (Al by IPC)	
NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPoE, SNMP, IGMP	Network	•
Interface	Protocol	
Mobile Device iOS, Android OS iOS, Android Storage IOS, Android HDD Interface SATA×16, Max 18TB per HDD RAID Type RAID 01,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Remote Controller Included Others Others Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	Interface	
OS iOS, Android Storage IOS, Android HDD Interface SATA×16, Max 18TB per HDD RAID Type RAID 01,15,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	Client Connection	Max. 128 users access
Storage SATA×16, Max 18TB per HDD RAID Type RAID 0,1,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	Mobile Device	200 4 1 11
HDD Interface		IOS, Android
RAID Type RAID 0.1,5,6,10 E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)		SATAx16 May 18TR per HDD
E-SATA Interface 2 (Single Driver per. Max 18TB, Record Only) Port USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		
Port USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)	**	
USB USB3.0×1 USB2.0 ×3(Front:2) (USB to HDD, Max 1TB) RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		2 (Single Driver per Max 101B, Record Only)
RS485 Yes (full-duplex), connect to PTZ RS232 Yes Reset Yes Remote Controller Included Others Power Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU), Directive 94/62/EC and REACH(EC1907/2006)		USB3 0x1 USB2 0 x3(Front:2) (USB to HDD May 1TB)
RS232 Yes Reset Yes Remote Controller Included Others Power Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		
Reset Yes Remote Controller Included Others		
Remote Controller Included Others Included Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		
Others ATX-275W Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		
Power ATX-275W Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		
Consumption ≤50W (without HDD) Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		ATX-275W
Dimensions 17.2 x 19.01 x 5.63 in (437 ×483 ×143mm) Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) ,		
Certificate CE,FCC Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)	Consumption	
Environmental Protection Directive EU RoHS, WEEE(2012/19/EU) , Directive 94/62/EC and REACH(EC1907/2006)		17.2 v 19.01 v 5.63 in (437 x483 x1/3mm)
	Dimensions	· · · · · · · · · · · · · · · · · · ·
	Consumption Dimensions Certificate Environmental Protection	CE,FCC Directive EU RoHS, WEEE(2012/19/EU),







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