







# 8x PoE Ports $\cdot$ 2x HDD $\cdot$ RAID $\cdot$ Fisheye Dewarp $\cdot$ Mobile EZConnect $\cdot$ Auto Adaptive Stream $\cdot$ HDMI/VGA Monitor Display $\cdot$ ONVIF

VIVOTEK ND8322P is a Linux embedded 8-CH standalone NVR with 8-port 802.3af Compliant PoE, allowing connection with PoE cameras for a max. 80 W power supply. ND8322P also features "One Button Setup" with its plug-&-play and auto-setup functionality, making this advanced unit surprisingly simple to install, and suitable for any small-scale video surveillance applications.

Supporting HDMI and VGA local video output, users can control the GUI OSD interface via mouse & keyboard, eliminating the need for a separate PC to search video or to playback from the NVR. The new local display design - Auto Adaptive Stream will dynamically modify Stream 2 resolution of a camera to best fit the display resolution according to the layout type, resulting in an efficient display, while maintaining superb image quality. Further, the RAID 0/1 configuration provides further data security in the rare event of a hard drive failure. Meanwhile, ND8322P supports software fisheye camera de-warping function, providing right angle of video view and detailed information for usage. What's more, ND8322P, featuring various I/O ports, such as eSATA port, alarm input/output, RS232, and RS485 provides users great flexibility of applications.

With VAST CMS, users can set up IP surveillance system with ease. For remote and mobile access, VIVOTEK also provides EZConnet and iViewer app, for both iOS and Android handheld devices, enabling users to monitor live video anytime, anywhere.

# **Key Features**

- · Plug & Play One Button Auto Setup
- · EZConnect by Scanning QR Code for 24/7 Mobile Viewing
- Intuitive, Elegant Interaction UI
- · 8x 802.3af Compliant PoE Ports
- $\cdot$  VIVOTEK Camera Configuration and VAST CMS Integrated
- $\cdot$  Live and Playback Fisheye Dewarp
- $\cdot$  Embedded Linux OS
- $\cdot$  e-SATA for Extension Storage
- $\cdot$  Support RAID 0/1 Storage
- Story Board Event Search
- $\cdot$  ONVIF Open Platform
- Fanless Design
- $\cdot$  Up to 12MP Camera Liveview & Playback



ND8322P Application Scenario





Restaurant



Clothing Specialty

#### Hardware Information

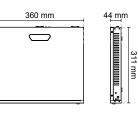
naruware informat			
Model	ND8322P	PoE	8x 802.3af Compliant PoE Ports (Total Max. 80W)
System		Protocols	IPv4, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter
OS	Embedded Linux	Davian	DHCP, NTP, DNS, DDNS, IP Filler
CPU	ARM Processor	Power	B G 501 B 334
Flash	256 MB	Power Input	DC 56V 2.32A
RAM	1 GB	Power Consumption	Max. 120 W
Watchdog	Hardware + Software	LED Indicator	
Power Restoration	System Restart Automatically after Power Recovery	LED Indicator	Power, Status, Record, HDD1, HDD2, eSATA, Ethernet, Port 1 ~ Port 8
Storage		Mechanic	
HDD Devices	Internal x2	Form Factor	Desktop
HDD Max. Capacity	8 TB x2		Power (Front) / Reset (Back)
Disk Management	Create, Format and Remove Disk	Opateration Buttons	
	HDD S.M.A.R.T	Dimensions	360 (W) x 311 (D) x 44 (H) mm
Video		Weight	2.7 kg (without HDD)
Video Output	HDMI x1, VGA x1	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Resolution	1920×1080, 1280×720	Humidity	0 ~ 95%
Graphics Decoder	Hardware decoding	General	
	H.264: 2560x1920 @ 30 fps (1-CH) 1920x1080 @ 120 fps (4-CH) 1280x720 @ 240 fps (8-CH)	Safety Certifications	CE, LVD, FCC, VCCI, C-Tick, UL
Decording Capacity		Warranty	24 months
beconding capacity		Client PC Requirements	
Camera Position	Change the viewcell position on the Live View screens	Operating System	Microsoft Windows OS: XP/Vista/7/8/2008/2012
External Interface	change the Herreit position on the life field screens	CPU	Intel Celeron or above
External interface	Front: 2 (USB 2.0)	Memory	2 GB or above
USB Interface	Back: 1 (USB 2.0)	Ethenet	10/100Mbps
Alarm In	8	Display Resolution	1024x768 pixels or above
Alarm Out	4	Web Browser	Internet Explorer 10 (32 bit) or above
Alarin Out	3.5 Phone Jack Audio Output x1	Software AP	Installation Wizard 2, ST7501, VAST
Audio	3.5 Phone Jack Audio Output (Reserved) x1	Mobile/Tablet App	EZConnect (iOS/Android), iViewer (iOS/Android)
External HDD	eSATA Port x1	Accessories	
RS232	1 Port (Reserved)	CD	User's Manual, Quick Installation Guide (QIG), Installation Wizard 2
RS485	1 Port (Reserved)		
Network		Power Adapter, Power Cord, Quick Installation Guide, 16 x H.D.D. Screws, 4 x H.D.D. Brackets, 1 x USB Mouse,	
Network Interface	10/100/1000Mbps Ethernet (RJ-45) x1 *It is highly recommended to use standard Cat. 5e & Cat. 6 cables which are compliant with the 3P/ETL standard.	otiers	2 x SATA Cables

## Software Information

Maximum Channel8Record Throughput (M8)64 MbpsNetwork Throughput (M9)24 MbpsAudio FormatG.711, G.726Video FormatWPEG, H.264Video ResolutionVGA, 1MP, 2MP, 3MP, SMP & 12MP CameraArray TypeRAD 0, 1Recording Time (sec.)Pre-Record: 50 (Max. 10) Post-Record: 20 (Max. 300)Recording StreamSingleRecording StreamSingleRecording StreamContinuous, Schedule, Manual, Event, Activity Adaptive StreamingRecording NodeContinuous, Schedule, Manual, Event, Activity Adaptive StreamingRecording PathLocal PathRecord Video Format3 CPLiveView (Local Display)& Channels Multi Layout display: 11, 1x3 Corridor View), 2x2, 3x3, 1+5, 1+3, 1+1+3 (1P), 1+3+3 (1P)Ronitor Enhancement& Schannels Multi Layout display: 11, 1x3 Corridor View), 2x2, 3x3, 1+5, 1+3, 1+1+3 (1P), 1+3+3 (1P)PTZ CoperationPanel ControlPTZ CoperationPanel ControlPTZ ControlPanel ControlPTA ControlPanel ControlPTA ControlSeed Control, Cleandar, Event, Timeline, Timeline Scale, Thumbnail Citoryboard)Video SearchBy Calendar, Atext, Timeline, Timeline, Scale, Thumbnail CitoryboardVideo Control, Exent Notification, Aspect Ratio, PIP Control, Fisher Vent N	Record	
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Monitor EnhancementRemote I/O Control, Event Notification, Aspect Ratio Fisheye Dewarp: 10, 1P, 1R, 103R, 103RPTZ ControlPanel ControlPTZ OperationDirection Control, Home, Iris, Preset, Patrol (Group), PiP ControlPlayback (Local Display)4Playback DisplayAutiple Layout Display: 2x2Playback ControlRegular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)Video SearchBy calendar, date/time, and alarmThumbnail Explorer (Storyboard)Listing the thumbnail of recorded video (Max. 2 CH)Monitor EnhancementOSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp (10,1P,1R,103R)SnapshotJPEGVideo CapabilityOne WayLiveView (Remote)Stream SelectionAudio CapabilityOne WayLiveView Display& Charnels Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5Monitor EnhancementOSD Display (NWR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, PiP ControlPTZ ControlPanel ControlPrez ControlPipeGPTZ ControlPanel ControlPTZ ControlPanel ControlPTZ ControlPanel ControlPrez ControlPipeGPlayback (Remote)PipeGPlayback (Remote)PiecePlayback DisplayMulti Layout Display: 1x1, 2x2, 1+3Playback DisplayMulti Layout Display: 1x1, 2x2, 1+3Playback DisplayMulti Layout Display: 1x1, 2x2, 1+3Playback Remote)	LiveView Display	Multi Layout display: 1x1, 1x3 (Corridor View), 2x2, 3x3, 1+5, 1+3, 1+1+3 (1P), 1+3+3 (1P)
PTZ Operation     Direction Control, Home, Iris, Preset, Patrol (Group), PIP Control       Playback (Local Display)     4 Channels Multiple Layout Display: 2x2       Playback Control     4 Channels Multiple Layout Display: 2x2       Playback Control     Speed Control, Calendar, Event, Timeline, Timeline, Scale, Thumbnail (Storyboard)       Video Search     By calendar, date/time, and alarm       Thumbnail Explorer (Storyboard)     Listing the thumbnail of recorded video (Max. 2 CH)       Monitor Enhancement     OSD Display (Camera), Event Notification, Aspect Ratio, PIP Control, Fisheye Dewarp (10,1P,1R,103R)       Snapshot     JPEG       Video Clip Export     EXE       LiveView (Remote)     Stream Selection       Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, R)       PTZ Control     Panel Control       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PIP Control       Payback (Remote)     PEG       Playback Display     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       PHZ Operation     Direction Control, Home, Zoom, Focus, Iris, Prese		Remote I/O Control, Event Notification, Aspect Ratio
Playback (Local Display)   4 Channels     Multiple Layout Display: 2x2     Regular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)     Video Search   By calendar, date/time, and alarm     Thumbnail Explorer (Storyboard)   Listing the thumbnail of recorded video (Max. 2 CH)     Monitor Enhancement   OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp (10,1P,1R,103R)     Snapshot   JPEG     Video Capability   One Way     Stream Application   Stream Selection     Audio Capability   One Way     LiveView Display   & Channels     Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5     Monitor Enhancement   OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote JOC Ontrol, HOME, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control     Panel Control   Panel Control     Ptz Control   Panel Control     Ptz Operation   JPEG     Playback (Remote)   JPEG     Playback (Remote)   4 Channels     Multi Layout display: 1x1, 2x2, 1x3   Resplay     Ptz Control   Panel Control     Panel Control   Panel Control     Snapshot		
Playback Display   4 Channels Multiple Layout Display: 2x2     Playback Control   Regular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail Explorer (Storyboard)     Video Search   By calendar, date/time, and alarm     Thumbnail Explorer (Storyboard)   Listing the thumbnail of recorded video (Max. 2 CH)     Monitor Enhancement   OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp (10,1P,1R,103R)     Snapshot   JPEG     Video Clip Export   EXE     LiveView (Remote)   Stream Selection     Stream Application   Stream Selection     Audio Capability   One Way     Monitor Enhancement   OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)     PTZ Control   Panel Control     PTZ Operation   Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control     Papaback (Remote)   PUE     Playback Remote)   4 Channels Multi Layout Display: 1x1, 2x2, 1+3     Playback (Remote)   4 Channels Multi Layout Display: 1x1, 2x2, 1+3     Playback Display   4 Channels Multi Layout Display: 1x1, 2x2, 1+3     Playback Control   Regular (Play, Pause, Stop), Next Frame, Speed C	PTZ Operation	Direction Control, Home, Iris, Preset, Patrol (Group), PiP Control
Playback Display Multiple Layout Display: 2x2   Regular (Play, Pause, Stop), Rewind, Next / Previous Frame, Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)   Video Search By calendar, date/time, and alarm   Thumbnail Explorer (Storyboard) Listing the thumbnail of recorded video (Max. 2 CH)   Monitor Enhancement OSD Display (Camera), Event Notification, Aspect Ratio, PIP Control, Fisheye Dewarp (10,1P,1R,103R)   Snapshot JPEG   Video Clip Export EXE   LiveView (Remote) Stream Selection   Audio Capability One Way   Bonitor Enhancement OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R, 2x2, 3x3, 1+3, 1+5   Monitor Enhancement OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control   PTZ Control Panel Control   PTZ Operation Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PIP Control   PTZ Operation JPEG   Playback (Remote) PEG   Playback Display 4 Channels Multi Layout Display: 1x1, 2x2, 1+3   Playback Display 4 Channels Multi Layout Display: 1x1, 2x2, 1+3   Playback Control Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark	Playback (Local Display)	
Playback Control Speed Control, Calendar, Event, Timeline, Timeline Scale, Thumbnail (Storyboard)   Video Search By calendar, date/time, and alarm   Thumbnail Explorer (Storyboard) Listing the thumbnail of recorded video (Max. 2 CH)   Monitor Enhancement OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fishege Dewarp (10,1P,1R,103R)   Snapshot JPEG   Video Clip Export EXE   LiveView (Remote) Totam Stream Selection   Audio Capability One Way   LiveView Display & Channels Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5   Monitor Enhancement OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)   PTZ Control Panel Control   PTZ Operation JPEG   Playback (Remote) Uit Layout display: 1x1, 2x2, 3x3, 1+3, 1+5   PTZ Operation Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control   Panel Control Panel Control   Playback (Remote) V   Playback Display 4 Channels Multi Layout Display: 1x1, 2x2, 1+3   Playback Control Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark	Playback Display	Multiple Layout Display: 2x2
Thumbnail Explorer (Storyboard)   Listing the thumbnail of recorded video (Max. 2 CH)     Monitor Enhancement   OSD Display (Camera), Event Notification, Aspect Ratio, PIP Control, Fisheye Dewarp (10,1P,1R,103R)     Snapshot   JPEG     Video Clip Export   EXE     LiveView (Remote)   Stream Selection     Audio Capability   One Way     LiveView Display   & Channels Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5     Monitor Enhancement   OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)     PTZ Control   Panel Control     Parel Control   Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control     Snapshot   JPEG     Playback (Remote)   4 Channels Multi Layout Display: 1x1, 2x2, 1+3     Playback Control   Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark	Playback Control	Speed Control, Calendar, Event, Timeline, Timeline Scale,
Monitor Enhancement     OSD Display (Camera), Event Notification, Aspect Ratio, PiP Control, Fisheye Dewarp (10,1P,1R,103R)       Snapshot     JPEG       Video Clip Export     EXE       LiveView (Remote)     Stream Selection       Audio Capability     One Way       LiveView Display     & Channels Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PIP Control       Playback (Remote)     4       Playback Display     4       Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark	Video Search	By calendar, date/time, and alarm
Monitor Enhancement     Control, Fisheye Dewarp (10,1P,1R,103R)       Snapshot     JPEG       Video Clip Export     EXE       LiveView (Remote)     Stream Selection       Audio Capability     One Way       LiveView Display     & Channels       Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control       Snapshot     JPEG       Playback (Remote)     4       Playback Display     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	Thumbnail Explorer (Storyboard)	Listing the thumbnail of recorded video (Max. 2 CH)
Video Clip Export EXE   LiveView (Remote)   Stream Application Stream Selection   Audio Capability One Way   LiveView Display & Channels   Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5   Monitor Enhancement OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)   PTZ Control Panel Control   PTZ Operation Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control   Snapshot JPEG   Playback (Remote) 4 Channels Multi Layout Display: 1x1, 2x2, 1+3   Playback Control Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark   Monitor Enhancement OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	Monitor Enhancement	
LiveView (Remote)       Stream Application     Stream Selection       Audio Capability     One Way       LiveView Display     & Channels       Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PIP Control       Snapshot     JPEG       Playback (Remote)     4       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PIP Control,		
Stream Application     Stream Selection       Audio Capability     One Way       LiveView Display     & Channels Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, IR)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PIP Control       Snapshot     JPEG       Playback (Remote)     4       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Stael, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PIP Control,		EXE
Audio Capability     One Way       ElveView Display     & Channels Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PIP Control       Snapshot     JPEG       Playback (Remote)     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,		
LiveView Display     & Channels Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control       Snapshot     JPEG       Playback (Remote)     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,		
LiveView Display     Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Image Freeze, Audio Control, Remote / OC control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control       Snapshot     JPEG       Playback (Remote)     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	Audio Capability	,
Monitor Enhancement     Remote I/O Control, Event Notification, Bookmark, Fisheye Dewarp (10, 1P, 1R)       PTZ Control     Panel Control       PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control       Snapshot     JPEG       Playback (Remote)     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	LiveView Display	Multi Layout display: 1x1, 2x2, 3x3, 1+3, 1+5
PTZ Operation     Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), PiP Control       Snapshot     JPEG       Playback (Remote)     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	Monitor Enhancement	Remote I/O Control, Event Notification, Bookmark, Fisheye
PI2 Operation     (Group), PiP Control       Snapshot     JPEG       Playback (Remote)     4 Channels       Multi Layout Display: 1x1, 2x2, 1+3     Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	PTZ Control	Panel Control
Playback (Remote)       Playback Display     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline, Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	PTZ Operation	
Playback Display     4 Channels Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Timeline Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	Snapshot	JPEG
Playback Display     Multi Layout Display: 1x1, 2x2, 1+3       Playback Control     Regular (Play, Pause, Stop), Next Frame, Speed Control, Calendar, Timeline, Stale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	Playback (Remote)	
Playback Control     Calendar, Timeline, Timeline Scale, Bookmark       Monitor Enhancement     OSD Display (NVR), Drag & Drop, Audio Control, PiP Control,	Playback Display	
	Playback Control	
	Monitor Enhancement	

Snapshot	JPEG		
Video Clip Export	EXE		
Alarm Management			
Schedule Type	Continuous, Schedule, Manual		
Event	Motion Detection, PIR Detection, Tampering Detection, Digital Input (Camera), Digital Output (Camera), Connection Abnormal, Storage Abnormal, Storage Full, Camera Network Loss, DI, DO		
Action	Record, Email (Text), Email (Snapshot), FTP, Buzzer, PTZ Control (Go to Preset), NVR DO, Camera DO		
Recording Time (sec.)	Pre-Record: 5 (Max. 10), Post-Record: 20 (Max. 300)		
Backup			
Manual	USB Dongle (FAT Format)		
System			
User Management	User Account: 16 User Account Time Limit: 10 mins User Level: Administrator / Regular User User Feature Definition: By Camera		
Log	System, Recording, User, Error		
Date&Time	Time Zone, Manual, Automatic Sync NTP, Daylight Saving Time		
Firmware	Manual update		
Restore Default	Supported		
Backup/Restore (Configuration)	Supported		
Language	Czech, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese		
Camera Intergration			
Insert Camera	Manual, Search		
Video (Media) Setting	Compression, Resolution, FPS, Video Quality		
Image Setting	Image Display, Image Adjustment		
PTZ Control	Panel Control		
PTZ Operation	Direction Control, Home, Preset, Patrol (Group)		
Motion Detection	Supported		
ONVIF Core Spec	Version 2.2 or above (By Project)		
ONVIF Stream	Video (H.264, MPEG4 & MJPEG)		
ONVIF Recording	Continuous, Schedule, Manual		
ONVIF Discover	Discover the other brand camera through "Insert Camera & Batch Insert"		
Device Intergration			
UPS	APC Model Compatible		

## Dimensions



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