

UN1A-32X16 32 Channel NVR with 16 Plug & Play Ports



Plug & Play 16 Plug & Play Ports	PoE 16 PoE Ports	Up to 12 Megapixel	30 FPS	ONVIF	HDMI 1080p with 4K Monitor Support	VGA Main Monitor
CVBS Main/Spot	Bandwidth Optimization	Arming Schedule	Digital Zoom	Smart Search	NAS SAN	uPnP Router Setup
Remote Backup	Substream	Remote Preview	Multi-Browser	2-Way Audio	Free App iOS & Android	Front Panel Controls
FREE CMS	Free MAC Client					

Features

- Connect up to 32 IP cameras in any combination with no special licenses required
 - 'Hands Free' Plug-and-Play cameras on the 16 built-in PoE ports
 - Onvif or other supported IP cameras* (*See list of manufacturers/models)
 - Power cameras with up to 30W each (802.3at PoE) from a total of 200W built in PoE power
- Stream an aggregate bandwidth to the NVR of up to 256Mb/s from all connected cameras
 - Select camera resolutions up to 12MP from up to 32 cameras
 - Stream higher resolution/rate/image quality using only 16 'Hands Free' Plug-and-Play camera
 - Set lower resolution/rate/image quality to meet 32 camera application/installation requirements
- Local HDMI/VGA monitor displays at up to 1920x1080 and employ digital zoom in both live view and playback for expanded view of fine details
 - HDMI up to 4K
 - VGA up to 1080p
 - CVBS main monitor or programmable spot monitor
- Record based on schedule; continuous, event, motion, alarm, combinations, POS, none
- Easy to use on-screen menus include digital zoom and instant playback of recent video
 - Operate using full front panel controls, wheel mouse or optional IR remote
- Quickly locate and review event video
 - Search by date/time, or preview images by pointing along a color coded timeline of record type
 - Play based on results of extensive event/alarm log search
 - Use "Smart Search" to define an area of interest; the NVR quickly reviews recorded video to list instances of motion in that area for review by the operator
 - Use Video Content Analysis event detection on all channels
 - Line crossing (with direction) up to four lines
 - Area intrusion (with loitering time) up to four areas
 - Rapid fast forward can scan quickly between VCA events, yet plays events at normal speed
 - POS Search
- Optional arming schedule for action/notifications and alarms (e.g. ignore on-camera motion from specific cameras during normal business hours)
- View, record and play main stream for detail, or sub-stream to conserve bandwidth and CPU resources
- System automatically conserves resources by selecting sub-stream during multiple camera viewing
- User selectable viewing optimization for image detail of fluency of motion
- Choose up to 32Tb of internal HDD storage, record to external NAS/SAN
- Easy remote access - view NVR over Internet without programming router: built-in uPnP router NAT/port mapping forwards ports automatically (*Router must support/permit uPnP function)
- Your choice of IE, Firefox or Safari browsers to view live or playback video, or to manage NVR
- Unique Channel 0 remote stream displays user defined multi-view in the bandwidth of a single ch
- Unique Virtual Host provides remote access to all IPC login menu based features and capabilities
- View multiple live/playback video streams on Android/iOS apps, or get HD viewing from tablet specific app
- Free Windows and MAC CMS Client for up to 64 live/4 playback views, manage and back up multiple sites
- Two way audio support (compatible camera required) from NVR, web screens and CMS
- Local alarm pre-channel inputs, 4 outputs and RS-485 control terminals
- Rack mountable 1.5U chassis (ears included)

Ordering Information

UN1A-32X16/2T: 32 Ch, 16 PnP, 2 TB UN1A-32X16/12T: 32 Ch, 16 PnP, 12 TB
 UN1A-32X16/4T: 32 Ch, 16 PnP, 4 TB UN1A-32X16/16T: 32 Ch, 16 PnP, 16 TB
 UN1A-32X16/6T: 32 Ch, 16 PnP, 6 TB UN1A-32X16/24T: 32 Ch, 16 PnP, 24 TB
 UN1A-32X16/8T: 32 Ch, 16 PnP, 8 TB UN1A-32X16/32T: 32 Ch, 16 PnP, 32 TB



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Streaming Video Inputs & Recording	
Maximum Number of IP Cameras	32
Number of built in PnP/PoE Switch Ports	16
Supported Live View/ Record Resolutions	up to 12MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Sub-stream	Supported for recording, playback and live viewing
Audio streaming	Supported from audio capable cameras
Max FPS rate per cam (Live & Record)	30FPS Main stream; 30FPS Sub-stream Up to 960FPS total for 32 cameras
Maximum Record Streaming Video Input Bandwidth (all cameras combined)	256 Mb/s
Recording Compression	Depends on IP Camera; typically H.264 for main stream, MJPEG for sub-stream/H.265
Recording Modes	Continuous, Motion, Alarm, Motion+Alarm, Motion, Alarm, VCA, POS (with required firmware) or None
Motion & VCA Detection	Camera Side, configurable from NVR for compatible series cameras
Schedule Period	Per day in 1 hour blocks; or 8 time periods per day, each with different record mode; + holidays
Pre- and Post- Event Recording	Pre-record 0–30 seconds; post record 5s–10 minutes
Built in network switch port speed	10/100 Mb/s each port
Third Party Cameras Supported (requires traditional configuration and setup)	Onvif; Acti, Arecont, Axis, Bosch, Brickcom, Canon, Hikvision, Hunt, Panasonic, Pelco, Samsung, Sanyo, Sony, Vivotek, Zavio
Local Live Presentation of Streaming Video/Audio	
Local Display Main Monitor Outputs	HDMI 60Hz: 4K (3840 x 2160), 2K (2560 x 1440), 1920x1080, 1600x1200, 1280x1024, 1280x720, 1024x768 VGA 60Hz: 1920x1080P, 1600x1200, 1280x1024, 1280x720, 1024x768
Camera Display Layouts	1, 2x2, 1+5, 1+7, 3x3, 4x4, 5x5, 32, 6x6
Automatic Stream Selection	Single camera view and 2x2 at main stream resolution; Automatic switching to sub-stream resolution in >4 cameo multi-view display to conserve CPU capacity and maintain parity between per-camera screen area and image size
Audio Output	1-ch Line Level, synced to VGA; HDMI audio on HDMI monitor output (requires audio equipped cameras)
Playback of Recorded Video/Audio	
Supported Playback Resolutions	up to 12MP/ 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Local Display Playback Maximum Video Bandwidth (all cameras combined)	~32Mb/s nominal
Nominal Local Playback Capability	4 channels @ 4K; 16 channels @ 1920x1080 Reduced total bandwidth permits greater number of cameras to be played. (actual playback depends on decoding load which varies based on settings for recorded video bandwidth restrictions, resolution, image quality, FPS rate, compression efficiency, and complexity of pixel change in the scene)
Playback search modes	Time/Date; Event (Alarm, Motion, VCA); Manual Tags; Smart Search for motion events from recorded video, POS (with required firmware)
Playback Controls	Play; Pause; Forward/Reverse; speed control for single--1.8--Vmax (256x); Slide bar with overview of record type and snapshot display from slider position
Digital Zoom During Playback	Supported on Local Displays, CMS, and web browser
Local Hard Drives and Other Storage	
Number of Internal Hard Drives	Up to 4 SATA HDD; up to 6TB each for 24TB maximum
Redundant Recording	Yes
S.M.A.R.T	With extensive statistics, alarms, on demand tests and reporting
Record to	HDD, NAS or SAN
Archive to	USB
Local Plug and Play Camera Network Support	
Integral PoE Switch	16 Ports 10/100 Mb/s
Camera Network Security	Option to enable pass through access from LAN/WAN to cameras, or to isolate camera network from LAN/WAN for increased security
PoE Type	802.3at Max 30W per port
Total Power Budget	200W all ports
PnP Network Support	Integral DHCP function with address-per-port initial assignment Internal bridge can forward connections from LAN/WAN network port to individual IPC for remote access to IPC OSD detail config menus (Using Compatible Series cameras connected to internal PnP PoE switch ports)
Built in Web Server Interface	Live view, playback & config via IE, Firefox, Safari (with free plug-in/extension installed)
CMS	PC and MAC Client supports multiple device viewing, playback (with digital zoom) and configuration; user rights per camera; E-map support; live view up to 64 cameras in 4:3 and 48 cameras in 16:9; up to 4 cameras in playback
Mobile Apps	iOS and Android supported; live 16 camera views; 4 camera playback; snapshots from live or play; copy clips/record to smartphone; audio support; PTZ control. HD version of app, optimized for tablets, is available
User Rights Control	Per user-per camera for multiple functions
Event Logging	Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type
Firmware Upgrade	From USB or remotely
Backup/Restore Configuration	For NVR settings and for IP Camera settings; from USB or remotely
Network and Other Interfaces	
LAN/WAN Network Port	One 10/100/1000Mb/s RJ-45 port
Connection of non-PnP IP cameras	Supported
Remote Monitoring Output Max Bandwidth	256Mb/s
Maximum number of remote connections	128
DST/NTP	Supported; choice of time zone, NTP server, DST start/end/offset
Port Mapping/uPnP	Automatic port forwarding/redirection using uPnP on routers with this capability
Serial Interfaces	1xRS-232 DB9; 1xRS-485; 1xKeyboard controller input
USB 2.0 Interfaces	2 front; 1 rear
Audio Input	1 RCA
Alarm Inputs	16
Alarm Outputs	4 single pole
General Mechanical and Environmental	
Power Input	100–240VAC, up to 300W max. continuous/450W peak, 50–60Hz; USA Power Cord
Continuous Power Consumption	Up to 45W for NVR; up to 200W for PoE
Operating Temperature	14°F ~ 131°F (-10°C ~ +55°C)
Operating Humidity Range	10% ~ 90%
Cooling Fan	1, in power supply
Size	1.5U Rack mountable chassis (rack ears provided) 17.52" x 15.35" x 2.76" (445 x 390 x 70mm)
Weight (without hard drives or ODD)	8.8 lb./4 Kg allow ~1.4 lb. per HDD
Certifications	FCC, CE, RoHS