

UN1A-16X16L 16 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
Front Panel Controls	Bandwidth Optimization	Arming Schedule	Digital Zoom	Smart Search	NASTSAN	uPnP Router Setup
Remote Backup	Substream	Remote Preview	Multi-Browser	2-Way Audio	Email Notification	Redundant Recording
IPC OSD Pass Thru	POS Support	Free App iOS & Android	FREE CMS	Free MAC Client		

UN1A-16X16L Features

- Connect up to 16 IP cameras in any combination with no special licenses required
- 'Hands Free' Plug-and-Play cameras on the 16 built-in PoE ports
- Power cameras with up to 30W each (802.3af 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
- Choose up to 32Tb of internal HDD storage, or record to external NAS/SAN

Features

- · Onvif or other supported IP cameras* (*See list of manufacturers/models)
- Select camera resolutions up to 12MP
- · Local HDMI/VGA monitor display
 - HDMI up to 4K
 - VGA up to 1080p
- Record based on schedule; continuous, event, motion, alarm, combinations, POS (special firmware), none
- 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
- 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 (requires special firmware)
- System automatically conserves resources by selecting sub-stream during multiple camera viewing
- User selectable viewing optimization for image detail of fluency of motion
- 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 channel
- 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
- · Rack mountable 1.5U chassis (ears included)

Ordering Information

UN1A-16X16L/2T: 8 Ch, 8 PnP, 2 TB UN1A-16X16L/4T: 8 Ch, 8 PnP, 4 TB UN1A-16X16L/12T: 8 Ch, 8 PnP, 12 TB UN1A-16X16L/16T: 8 Ch, 8 PnP, 16 TB UN1A-16X16L/24T: 8 Ch, 8 PnP, 24 TB UN1A-16X16L/32T: 8 Ch, 8 PnP, 32 TB





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Streaming Video Inputs & Recording	
Maximum Number of IP Cameras	16
Number of built in PnP/PoE Switch Ports	16
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Supported Live View/ Record Resolutions	12MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / QCIF
Sub-stream	Supported for recording, playback and live viewing
Audio streaming	Supported from audio capable cameras
Maxi FPS rate per cam (Live & Record)	30FPS Main stream; 30FPS Sub-stream Up to 480FPS total for 16 cameras
Maximum Record Streaming Video Input	256Mb/s
Bandwidth (all cameras combined)	ZOOIVID/S
Recording Compression	Depends on IP Camera; typically H.264 for main stream, MJPEG for sub-stream/H.265, H.264+
Recording Modes	Continuous, Motion, Alarm, Motion+Alarm, Motion, Alarm, VCA, POS, or None
Motion & VCA Detection	Camera Side, configurable from NVR for Ultra-IP 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
'Hands free Plug and Play' Cameras Fully Supported	Any Ultra-IP Models (IPCAM protocol). See camera datasheets for details.
Third Party Cameras Supported (requires traditional configuration & setup)	Onvif; Acti, Arecont, Axis, Bosch, Brickcom, Canon, Hikvision, Hunt, Panasonic, Pelco, Samsung, Sanyo, Sony, Vivotek, Zavio
Local Live Presentation of Streaming Video/A	Audio
Local Display Main Monitor Outputs	HDMI 60Hz: 4K (3840x2160), 2K (2560x1440), 1920×1080, 1600×1200, 1280×1024, 1280×720, 1024×768
Correct Display Laws 1	VGA 60Hz: 1920×1080P, 1600×1200, 1280×1024, 1280×720, 1024×768
Camera Display Layouts	1, 2x2, 1+5, 1+7, 3x3, 4x4, 5x5, 32, 6x6 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
Automatic Stream Selection	maintain parity between per-camera screen area and image size
Audio Output	1-ch Line Level, RCA synched to CVBS, one synched to VGA; HDMI audio on HDMI monitor output (requires audio equipped cameras)
Playback of Recorded Video/Audio	
Supported Playback Resolutions	12MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / 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
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
•	Supported on Local Displays, CMS and web browser
Digital Zoom During Playback	supported on Local Displays, Civis and web blowser
Local Hard Drives and Other Storage	
Number of Internal Hard Drives	Up to 4 SATA HDD; up to 8TB each for 32TB 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 Suppo	
Integral PoE Switch	16 Ports 10/100 Mb/s
Camera Network Security	Option to enable pass though access from LAN/WAN to cameras, or to isolate camera network from LAN/WAN for increased security
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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 InVid Tech Ultra-IP Series cameras connected to internal PnP PoE switch ports)
Remote Viewing and Local/Remote Configu	uration
Built in Web Server Interface	Live view, playback and configuration via IE, Firefox, Safari (with free plug-in/extension installed)
	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 cam-
CMS	eras in 4:3 and 48 cameras in 16:9; up to 4 cameras in playback
	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
Mobile Apps	version of app, optimized for tablets, is available
User Rights Control	Per user-per camera for multiple functions
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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
	Automatic port forwarding/redirection using uPnP on routers with this capability
Port Mapping/uPnP	
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 & Environmental	
Power Input	100~240VAC, up to 300W max. continuous/450W peak, 50~60Hz; USA Power Cord
Continuous Power Consumption	Up to 40W for NVR; up to 200W for PoE
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Operating Temperature	100/ 000/
Operating Humidity Range	10% ~ 90%
Operating Humidity Range Cooling Fan	1, in power supply
Operating Humidity Range	
Operating Humidity Range Cooling Fan	1, in power supply
Operating Humidity Range Cooling Fan Size	1, in power supply 1.5U Rack mountable chassis (rack ears provided) 17.52" x 15.35" x 2.76" (445 x 390 x 70mm)

