



UN1A-16X16

16 Channel NVR with 16 Plug and Play Ports

Standard Features

- 16 Plug & Play Ports for easy camera setup PoE (Power Over Ethernet) available on all ports
- Up to 12 Megapixel Resolution Recording
- 160 Mbps Bit Rate Input
- Supports up to 16 channel simultaneous playback
- Works with ONVIF or other supported IP cameras
- Local HDMI & VGA main monitor output up to 1080p
- Multiple video search options including Smart and Sub-Period Search for quick retrieval of footage.
- Unique Virtual Host provides remote access to all IPC login menu based features and capabilities
- H.264/MJPEG/H.264+ video compression
- 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

Model	UN1A-16X16
Streaming Video Inputs & Recording	
Maximum Number of IP Cameras	16
Number of built in PnP/PoE Switch Ports	16
Supported Live View/ Record Resolutions	Up to 12MP Support
Sub-stream	Supported for recording, playback and live viewing
Audio streaming	Supported from audio capable cameras
Maximum FPS rate per camera (Live and Record)	30FPS Main stream; 30FPS Sub-stream Up to 480FPS total for 16 cameras
Maximum Record Streaming Video Input Bandwidth (all cameras combined)	160 Mb/s
Recording Compression	H.264 for main stream, MJPEG for sub-stream, H.264+ (w/ supported cameras)
Recording Modes	Continuous, Motion, Alarm, Motion+Alarm, Motion or Alarm, Event, 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; plus holidays
Pre- and Post- Event Recording	Pre-record 0-30 seconds; post record 5s-10 minutes
Hands free Plug and Play' Cameras Fully Supported	Any Ultra-IP models (IPCAM protocol)
Third Party Cameras Supported (requires traditional configuration and setup)	Onvif; Acti, Arecont, Axis, Bosch, Brickcom, Canon, Hikvision, Hunt, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Vivotek, Zavio
Local Live Presentation of Streaming Video/Audio	
Local Display Main Monitor Outputs	HDMI & VGA 60Hz: 1920x1080, 1280x1024, 1280x720, 1024x768
Camera Display Layouts	1, 2x2, 1+5, 1+7, 3x3, 4x4
Automatic Stream Selection	Single camera view and 2x2 at main stream resolution; Automatic switching to sub-stream resolution in other multi-view displays to conserve CPU capacity and maintain parity between per-camera screen area and image size
Audio Output (requires audio equipped cameras)	1-ch Line Level, RCA (Linear, 1KQ) HDMI audio on HDMI monitor output (requires audio equipped cameras)
Playback of Recorded Video/Audio	
Supported Playback Resolutions	Up to 12MP
Nominal Local Playback Capability	16 channels 4CIF; 12 channels 720p; 6 Channels 1080p, 1 Ch @ 12MP (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; Manual Tags; Smart Search, Event Search(Motion/ Alarm/VCA) and Sub-Periods
Playback Controls	Play; Pause; Forward/Reverse; speed control for single-1.8-x-Max (256x). Slide bar with overview of record type and snapshot display from slider position
Digital Zoom During Playback	Supported on Local Displays, Web Browser and CMS
Local Hard Drives and Other Storage	
Number of Internal Hard Drives	Up to 2 SATA HDD; up to 8TB each for 16TB 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 thru access from LAN/WAN to cameras or to isolate camera network from LAN/WAN for increased security
PoE Type	802.3at 30W max 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 Configuration	
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 up to 16; 4 camera playback; snapshots from live or play; copy clips/record to smartphone; audio support; PTZ control.
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	10M/100M/1000M adaptive Ethernet Interface
Connection of non-PnP IP cameras	Supported
Remote Monitoring Output Maximum Bandwidth	80Mb/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 (routers must support this capability)
Serial Interfaces	1xRS-485
USB Interfaces	1 USB2.0 front; 1 USB 3.0 rear
Audio Input	1 RCA (2VP-P, 1KQ)
General Mechanical and Environmental	
Power Input	100-240VAC, 47-63Hz
Continuous Power Consumption	200W including PoE
Operating Temperature	14°F ~ 131°F (-10°C ~ +55°C)
Operating Humidity Range	10% - 90%
Cooling Fan	2
Size	15.0" x 11.42" x 1.9" (380mm x 290mm x 48mm)
Weight (without hard drives or ODD)	4.4lb (2Kg) NVR only allow ~1.4 lb. per HDD
Certifications	FCC, CE, RoHS

Ordering Information

UN1A-16X16/2TB: 16 Ch, 2 TB UN1A-16X16/8TB: 16 Ch, 8 TB
 UN1A-16X16/3TB: 16 Ch, 3 TB UN1A-16X16/12TB: 16 Ch, 12 TB
 UN1A-16X16/4TB: 16 Ch, 4 TB UN1A-16X16/16TB: 16 Ch, 16 TB