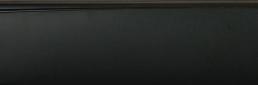


OMNI-IP Scalable IP Solutions





Key Features

KT&C

- Connect up to 16 IP cameras in any combination with no special licenses required - 'Hands Free' Plug-and-Play cameras on the 8 built-in PoE ports
- Onvif or other supported IP cameras* (*See list of manufacturers/models)
- Power cameras with up to 15W each (802.3af PoE) from a total of 100W built in PoE power
- Stream an aggregate bandwidth to the NVR of up to 80Mb/s from all connected cameras
- Select camera resolutions up to 5MP from up to 16 cameras
- Stream higher resolution/rate/image quality using only 8 'Hands Free' Plug-and-Play cameras
 Set lower resolution/rate/image quality to meet 16 camera application/installation requirements
- Local HDMI/VGA monitor displays at up to 1920x1080
- Employ digital zoom in both live view and playback for expanded view of fine details
- Record based on schedule, motion, event/alarm or combinations
- Easy to use on-screen menus include digital zoom and instant playback of recent video - Operate using front panel controls, wheel mouse or included 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
- 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 controls including zoom and instant playback of recent video
- 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 8Tb of internal HDD storage (optional mirroring), or record to external eSATA/NAS/ SAN
- Back up recorded video to any network connected NAS or FTP

POWER

- 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, Chrome, 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
- 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/16 playback views, manage and back up multiple sites
- Two way audio support (compatible camera required) from NVR, web screens and CMS
- Rack mountable 1U chassis (optional rack ears: KA-ORM1)



16 Channel NVR with 8 Plug & Play Ports



KNR-p16Px8

16 Channel NVR with 8 Plug & Play Ports

Streaming Video Inputs & Recording			
Maximum Number of IP Cameras	16		
Number of built in PnP/PoE Switch Ports	8		
Supported Live View/ Record Resolutions	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		
Maximum FPS rate per camera	30FPS Main stream; 30FPS Sub-stream		
(Live and Record)	Up to 480FPS total for 16 cameras		
Maximum Record Streaming Video Input Bandwidth (all cameras combined)	80 Mb/s		
Recording Compression	Depends on IP Camera; typically H.264 for main stream, MJPEG for sub-stream		
Recording Modes	Continuous, Motion, Alarm, Motion+Alarm, Motion or Alarm		
Motion Detection			
Schedule Period	Camera Side, configurable from NVR for KNC-p3 Omni IP Series Cameras Per day in 1 hour blocks; or 8 time periods per day, each with different record mode; plus		
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		
KT&C Omni-IP 'hands free Plug and Play' Cameras Fully Supported	KNC-p3BR4IR, KNC-p3BR6IR, KNC-p3BR12IR, KNC-p3DR4IR, KNC-p3DR3IR,KNC-p3DR6IR, KNC-p3BR12IR, KNC-p3BR4XIR, KNC-p3BR6XIR, KNC-p3BR12XIR, KNC-p3TR4XIR, KNC-p3TR3XIR, KNC-p3TR6XIR, KNC-p3LR4IR, KNC-p3LR3IR, KNC-p3LR6IR, KNC-p3BR28V12IR, KNC-p3DR28V12IR		
Third Party Cameras Supported (requires traditional configuration and setup)	Onvif; Acti, Arecont, Axis, Bosch, Brickcom, Canon, Hikvision, Hunt, Panasonic, Pelco, Sam- sung, Sanyo, Sony, Vivotek, Zavio		
Local Live Presentation of Streaming Video/	Audio		
Local Display Main Monitor Outputs HDMI	HDMI 60Hz: 1920×1080, 1600×1200, 1280×1024, 1280×720, 1024×768		
Local Display Main Monitor Outputs VGA	VGA 60Hz: 1920×1080P, 1600×1200, 1280×1024, 1280×720, 1024×768		
Camera Display Layouts	1, 2x2, 1+5, 1+7, 3x3, 4x4		
Automatic Stream Selection	Single camera view and 720p 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, 600Ω)		
Playback of Recorded Video/Audio			
Supported Playback Resolutions	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF		
Local Display Playback Maximum Video Bandwidth (all cameras combined)	~8Mb/s nominal		
Nominal Local Playback Capability	8 channels 4CIF; 4 channels 720p; 2 channels 1080p; 1 channel 5Mpix (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; Alarm (motion or other source); Manual Tags; Smart Search for motion events from recorded video		
Playback Controls	Play; Pause; Forward/Reverse; speed control for single~1.8~16X; Slide bar with overview of record type and snapshot display from slider position		
Digital Zoom During Playback	Supported on Local Displays and CMS		
Local Hard Drives and Other Storage			
Number of Internal Hard Drives	Up to 2 SATA HDD; up to 4TB each for 8TB maximum		
Mirror Recording	Can clone pairs of disks		
S.M.A.R.T	With extensive statistics, alarms, on demand tests and reporting		
Record to	HDD, NAS or SAN		
Archive to	USB, HDD, NAS or SAN		
Local Plug and Play Camera Network Supp			
Integral PoE Switch	8 ports 10/100 Mb/s		
Camera Network Security	Camera network is isolated from LAN/WAN port		
PoE Type	802.3af 15W max per port		
гое туре	ן פטצ.פער דאיי דוועג אפן אטון		

.

OMNI-IP Scalable IP Solutions

PLUG \$ PLAY IP



- PLAY	PORTS

0 2 2

Plug & Play	PoE	5 Megapixel	30 FPS	Front Panel Controls
HDMI 1080p	VGA Main Monitor	CVBS Main / Spot	NAS SAN	uPnP Router Setup
ONVIF	Remote Preview	Sub- Stream	2 WAY AUDIO	Mirror Recording
Remote Backup	Digital Zoom	Smart Search	Arming Schedule	Bandwidth Optimization
FREE App IOS/ Android	¢ FREE CMS	⇔ MAC Client	E-MAIL NOTIFICATION	

Total Power Budget	100W all ports	
	Integral DHCP function with address-per-port initial assignment (Using KT&C KNC-p3 Omni-IP	
PnP Network Support	Series cameras connected to internal PnP PoE switch ports)	
Remote Viewing and Local/Remote Configur	ation	
Built in Web Server Interface	Live view, playback and configuration via IE, Chrome, Firefox, Safari (with free plug-in/extension installed)	
CMS	PC and MAC Client supports multiple device viewing, playback (with digital zoom) and con- figuration; user rights per camera; E-map support; live view up to 64 cameras in 4:3 and 48 cameras in 16:9; up to 16 cameras in playback	
Mobile Apps	IOS and Android supported ; live 1 & 4 camera views; single 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 Maximum Bandwidth	40Mb/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-485	
USB 2.0 Interfaces	Two: 1 front; 1 rear	
Audio Input	1 RCA	
General Mechanical and Environmental		
Power Input	100~240VAC, 47~63Hz	
Continuous Power Consumption	145W including PoE	
Operating Temperature	14°F ~ 131°F (-10°C ~ +55°C)	
Operating Humidity Range	10% ~ 90%	
Cooling Fan	1, in power supply	
Size	17.52" x 11.42" x 1.77" (445mm x 290mm x 45mm) Rack Mountable with optional KA-ORM1 brackets	
Size Weight (without hard drives or ODD)		

www.ktncusa.com Ordering Information

KT&C America, Inc. reserves the right to make changes to improve our products at any time without notice; we are not responsible for misprints.

 KNR-p16Px8/1TB:
 16
 Ch,
 8 PnP,
 1 TB
 KNR-p16Px8/2TB:
 16
 Ch,
 8 PnP,
 2 TB

 KNR-p16Px8/4TB:
 16
 Ch,
 8 PnP,
 4TB
 KNR-p16Px8/6TB:
 16
 Ch,
 8 PnP,
 8 TB

 KNR-p16Px8/4TB:
 16
 Ch,
 8 PnP,
 4TB
 KNR-p16Px8/6TB:
 16
 Ch,
 8 PnP,
 8 TB