

ENR-p16Px16L 16 Channel NVR with 16 Plug & Play Ports



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

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
 - 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 160Mb/s from all connected cameras
 - Select camera resolutions up to 12MP
 - Set lower resolution/rate/image quality to meet 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
 - 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 oncamera 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 $\ensuremath{\mathsf{IR}}$ 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
- Choose up to 24Tb of internal HDD storage or 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 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 terminals
- Rack mountable 1.5U chassis (ears included)

Ordering Information

ENR-p16Px16L/2TB: 16 Ch, 16 PnP, 2 TB ENR-p16Px16L/4TB: 16 Ch, 16 PnP, 4 TB ENR-p16Px16L/6TB: 16 Ch, 16 PnP, 6 TB ENR-p16Px16L/8TB: 16 Ch, 16 PnP, 8 TB ENR-p16Px16L/12TB: 16 Ch, 16 PnP, 12 TB ENR-p16Px16L/16TB: 16 Ch, 16 PnP, 16 TB

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ENR-p16Px16L Specifications

	OL Specifications
Streaming Video Inputs & Recording	
Maximum Number of IP Cameras	16
Number of built in PnP/PoE Switch Ports	16
Supported Live View/ Record Resolutions	12MP / 5MP / 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 Bandwidth (all cameras combined)	160Mb/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, or None
Motion & VCA Detection	Camera Side, configurable from NVR for KNC-p3/o-4 Omni IP 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 Recordina	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'	KNC-p3BR4IR, KNC-p3BR4IR, KNC-p3BR6IR, KNC-p3DR4IR, KNC-p3DR3IR, KNC-p3DR6IR, KNC-p3DR1ZIR, KNC-p3BR4IR, KNC-p3BR4XIR, KNC-p3DR5IR, KNC-p3D
Cameras Fully Supported	KNC-p3TR3XIR, KNC-p3TR6XIR, KNC-p3LR4IR, KNC-p3LR3IR, KNC-p3LR6IR, KNC-p3LR6IR, KNC-p3BR28V12IR, KNC-p3DR28V12IR, KNC-p4BR4XIR, KNC-p4DR4IR, KNC-p4DR4IR, KNC-p4TR4XIR
Third Party Cameras Supported (requires	Onvif; Acti, Arecont, Axis, Bosch, Brickcom, Canon, Hikvision, Hunt, Panasonic, Pelco, Samsung, Sanyo, Sony, Vivotek, Zavio
traditional configuration and setup)	
Local Live Presentation of Streaming Video/	
Local Display Main Monitor Outputs	HDMI 60Hz: 4K (3840x2160), 2K (2560x1440), 1920 × 1080, 1600 × 1200, 1280 × 1024, 1280 × 720, 1024 × 768
	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
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, RCA synched to CVBS, one synched to VGA; HDMI audio on HDMI monitor output (requires audio equipped cameras)
Playback of Recorded Video/Audio	. S. T. S. C. S. M. S. M
Supported Playback Resolutions	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 Canability	4 channels @ 4K; 16 channels @ 1920x1080, Reduced total bandwidth permits greater number of cameras to be played. (actual playback depends on decoding load which
Nominal Local Playback Capability	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
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
External HDD	one eSATA Interface (up to 8 drives)
Record to	HDD, eSATA, NAS or SAN
Archive to	USB at
Local Plug and Play Camera Network Support	16 Ports 10/100 Mb/s
0	10 FOIIS 10/100 MID/S
	Option to applyla page though access from LANAMAN to compare or to isolate compare potwark from LANAMAN for increased eccurity.
Camera Network Security PoF Type	Option to enable pass though access from LAN,WAN to cameras, or to isolate camera network from LAN,WAN for increased security 802 3nt May 30W per part
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PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LANWAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NTP Port Mapping/uPnP Serial Interfaces	802.3at Max 30W per port 200W all ports Integral DHCP function with address-per-port initial assignment Internal bridge can forward connections from LANWAN network port to individual IPC for remote access to IPC OSD detail config menus (Using KT&C KNC-p3 Omni-IP Series cams connected to internal PnP PoE switch ports) uration 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 cameras 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 version of app. optimized for tablets, is available Per user-per camera for multiple functions Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type From USB or remotely For IVTR settings and for IP Camera settings; from USB or remotely One 10/100/1000Mb/s RJ-45 port Supported 256Mb/s 128 Supported; choice of time zone, NTP server, DST start/end/offset Automatic port forwarding/redirection using uPnP on routers with this capability 1xRS-232 DB9; 1xRS-485; 1xKeyboard controller input
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POE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LANWAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NIP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input	802.3at Max 30W per port 200W all ports Integral DHCP function with address-per-port initial assignment Internal bridge can forward connections from LANWAN network port to individual IPC for remote access to IPC QSD detail config menus (Using KT&C KNC-p3 Omni-IP Series cams connected to internal PnP PoE switch ports) uration Live view, playback and configuration via IE, Firefax, 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 cameras 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 version of app. optimized for tablets, is available Per user-per camera for multiple functions Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type From USB or remotely One 10/100/1000Mb/s RJ-45 port Supported 256Mb/s 128 Supported; choice of time zone, NTP server, DST start/end/offset Automatic port forwarding/redirection using uPnP on routers with this capability 1x8-232 DB9; 1x8-245; 1xKeyboard controller input 2 front; 1 rear
PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NTP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input Alarm Inputs	802.3at Max 30W per port 200W all ports 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 QSD detail config menus (Using KT&C KNC-p3 Omni-IP Series cams connected to internal PnP PoE switch ports) uration 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 cameras in 4:3 and 48 cameras in 16:9; up to 4 cameras in playback; 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 Per user-per camera for multiple functions Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type From USB or remotely One 10/100/1000Mb/s RJ-45 port Supported; choice of time zone, NTP server, DST start/end/offset Automatic port forwarding/redirection using uPnP on routers with this capability 1x85-232 DB9; 1x85-485; 1xKeyboard controller input 2 front; 1 rear
PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NTP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input Alarm Inputs Alarm Outputs	802.3at Max 30W per port 200W all ports 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 QSD detail config menus (Using KT&C KNC-p3 Omni-IP Series cams connected to internal PnP PoE switch ports) uration 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 cameras in 4:3 and 48 cameras in 16:9; up to 4 cameras in playback; 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 Per user-per camera for multiple functions Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type From USB or remotely One 10/100/1000Mb/s RJ-45 port Supported; choice of time zone, NTP server, DST start/end/offset Automatic port forwarding/redirection using uPnP on routers with this capability 1x85-232 DB9; 1x85-485; 1xKeyboard controller input 2 front; 1 rear
PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NTP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input Alarm Inputs Alarm Outputs General Mechanical and Environmental	802.3 at Max 30W per port 200W all ports Integral DHCP function with address-per-port initial assignment Internal bridge can forward connections from LANWAN network port to individual IPC for remote access to IPC OSD detail config menus (Using KT&C KNC-p3 Omni-IP Series cams connected to internal PnP PoE switch ports) uration 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 cameras in 4:3 and 48 cameras in 16-9; up to 4 cameras in 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; snapshots from live or play; copy clips/record to smartphone; audio support; PTZ control. HD version of app. optimized for tablets, is available Per user-per camera for multiple functions Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type From USB or remotely For NNR settings and for IP Camera settings; from USB or remotely One 10/100/1000Mb/s RJ-45 port Supported 256Mb/s 128 Supported 4. Automatic port forwarding/fectirection using uPnP on routers with this capability 1xRS-232 D89; 1xRS-485; 1xKeyboard controller input 2 front; 1 rear 1 RCA 16 4 single pole
PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NIP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input Alarm Inputs Alarm Outputs General Mechanical and Environmental Power Input	802.3at Max 30W per port 200W all ports Integral DHCP function with address-per-port initial assignment internal bridge can forward connections from LANWAN network port to individual IPC for remote access to IPC OSD detail contig menus (Using KT&C KNC-p3 Omni-IP Series cams connected to internal PnP PoE switch ports) uration Live view, playback and configuration via IE, Fiefox, 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 cameras in 48 cameras in 16/9; up to 4 cameras in playback (ISG 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 Per user-per camera for multiple functions Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type From USB or remotely For NNR settlings and for IP Camera settlings; from USB or remotely One 10/100/1000Mb/s RJ-45 port Supported; choice of time zone, NTP server, DST start/end/offset Automatic port forwarding/redirection using uPnP on routers with this capability 1xRS-232 DB9; 1xRS-485; 1xKeyboard controller input 2 front; 1 reca 1 RCA 16 4 single pole
PoE Type Total Power Budget PnP Network Support Remate Viewing and Local/Remate Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remate Monitoring Output Max Bandwidth Maximum number of remate connections DST/NTP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input Alarm Inputs Alarm Outputs General Mechanical and Environmental Power Input Continuous Power Consumption Operating Temperature Operating Humidity Range	B02.3at Max 30W per port 200W all ports Integral DHCP function with address-per-port initial assignment internal bridge can forward connections from LANWAN network port to individual IPC for remote access to IPC OSD defail conting menus (Using KT&C KNC-p3 Ornni-IP Series cams connected to internal PnP PoE switch ports) uration Live view, playback and configuration via IE, Fiefox, Safari (with free plug-invextension 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 cameras in 4:3 and 48 cameras in 16:9; up to 4 cameras in playback; snapshots from live or play; copy clips/record to smartphone; audio support, PTZ control. HD version of app. optimized for tablets, is available Per user-per camera for multiple functions Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type From USB or remotely For NVR settings and for IP Camera settings; from USB or remotely One 10/100/1000Mb/s RJ-45 port Supported; choice of time zone, NTP server, DST start/end/offset Automatic port forwarding/redirection using uPnP on routers with this capability 1xRS-232 DBP; 1xRS-485; 1xKeyboard controller input 2 front; 1 rear 1 RCA 1 6 4 single pole 100—240VAC, up to 300W max. continuous/450W peak, 50—60Hz; USA Power Cord Up to 40W for NVR; up to 200W for PoE
PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NTP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input Alarm Inputs Alarm Outputs General Mechanical and Environmental Power Input Continuous Power Consumption Operating Temperature	2023 at Max 30W per port
PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NTP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces Audio Input Alarm Inputs Alarm Outputs General Mechanical and Environmental Power Input Continuous Power Consumption Operating Temperature Operating Temperature Cocoling Fan Size	2023 at Max 30W per port
PoE Type Total Power Budget PnP Network Support Remote Viewing and Local/Remote Config Built in Web Server Interface CMS Mobile Apps User Rights Control Event Logging Firmware Upgrade Backup/Restore Configuration Network and Other Interfaces LAN/WAN Network Port Connection of non-PnP IP cameras Remote Monitoring Output Max Bandwidth Maximum number of remote connections DST/NTP Port Mapping/uPnP Serial Interfaces USB 2.0 Interfaces USB 2.0 Interfaces Audio Input Alarm Outputs General Mechanical and Environmental Power Input Continuous Power Consumption Operating Temperature Operating Humidity Range Cooling Fan	2023 at Max 30W per port