NR8201/8301	NR7401
Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)	-- (H.264 not supported)
Simultaneous Viewing & Recording	V
Built-in 802.3af Compliant PoE	V
Camera Installation through Easily Plug and Play	V
External USB Interface for Video Backup	V
LED Indicator for Quick Status Display	V
Integrated Firewall Protects System from Network Attacks and Unauthorized Access	V
Built-in Gateway for Separating the Networks from the Network Cameras and Data Transmitting	V
IP Address Filtering	V
PTZ & ePTZ Camera Control	-- (ePTZ not supported)
Removable & Lockable HDD Design	--
Compatible with VIVOTEK VAST Central Management Software	--
Professional Rack Mount Design	--
External eSATA Interface (NR8201)	--
Support RAID 0, 1 Scalable Storage Solution (NR8301)	--
Power Timer for Power Safety	--
Support All Series of VIVOTEK Products	--
Convenient Video Settings of Resolution, Quality and Frame Rate	--
Gigabit Ethernet Port for Higher Transmitting Rate	--
Multiple Streams	--

Technical Specifications

System
· CPU: Marvell 88F6281 1.2G
· Flash: 128MB
· RAM: DDR-SRAM 512MB
· Embedded OS: Linux

Channels
· NR8201: Support up to 4 channels
· NR8301: Support up to 8 channels

Hard Disk
· NR8201: Support 1 x 3.5" SATA I/II HDD, up to 2TB (Support external eSATA interface)
· NR8301: Support 2 x 3.5" SATA I/II HDD, up to 4TB (Support RAID 0, 1 scalable storage)

Compatibility
· Support VIVOTEK all series of network cameras

Codec
· Video compression: H.264/MJPEG/MPEG-4
· Audio compression: AAC/GAMR/G.711

Recording Throughput
· Total 50Mbps
  NR8201: 4 x 30fps @ 1080P
  NR8301: 8 x 30fps @ 1280x800

Recording Policy
· Alarm recording
· Scheduled recording
· Continuous recording
· Manual recording

Connectors
· 1 x Gigabit, RJ45 (1 WAN port)
· NR8201: 10/100 BaseTX Ethernet x 4, RJ45 (4 LAN ports)
· NR8301: 10/100 BaseTX Ethernet x 8, RJ45 (8 LAN ports)
· USB socket for backup
· Terminal block: 4 digital input, 1 relay output, and 1 power output with 12V Max. 1A

Camera Management
· Auto or manual installation for VIVOTEK cameras
· Video and network configuration through NR8301

Pan/Tilt/Zoom Control
· Pan/tilt/zoom control of VIVOTEK cameras

History Playback
· Playback of recorded media with time navigations

Networking
· Protocols: IPv4, TCP/IP, HTTP, RTSP/RTP/RTCP, IGMP, SMTP,FTP, DHCP, NTP, DNS, DDNS, 3GPP

Alarm and Event Management
· Four D/I and one D/O for external sensor and alarm
· Event notification using SMTP

Security
· Multi-level user access with password protection
· IP address filtering

Users
· Camera live and playback viewing for up to 10 clients

Dimension
· 446.4 mm (W) x 330.2 mm (D) x 43.6 mm (H)

Weight
· NR8201: 4kg
· NR8301: 4.7kg

LED Indicator
· System power, PoE, status and hard disk indicators
· Network link indicator

Power
· 100 ~ 240V AC
· 802.3af compliant Power-over-Ethernet
· Power consumption:
  NR8201: Max. 0.48 W (without PoE camera); Max. 60 W (with 4 PoE cameras)
  NR8301: Max. 0.96 W (without PoE camera); Max. 120 W (with 8 PoE cameras)

Approvals
· CE, FCC, VCCI, C-Tick, CB

Operating Environments
· Temperature: 0 ~ 50 °C (32 ~ 122 °F)
· Humidity: 20% ~ 80% RH

Viewing System Requirements
· OS: Microsoft Windows 2000/XP/Vista/Win7
· Browser: Internet Explorer 6 or above
· 3GPP access

Installation, Management and Maintenance
· VAST central management software
· Installation Wizard 2
· Support firmware upgrade
· Support VIVOTEK joystick

Warranty
· 24 months

Network Video Recorder
NR8201/8301

H.264 • Compatible with VAST CMS • Lockable HDD & Rack Mount Design

VIVOTEK's NR8201/8301 network video recorder offers an elegant recording solution for VIVOTEK network cameras and performs real-time monitoring and recording simultaneously. It supports up to 4-CH (NR8201) and 8-CH (NR8301) H.264, MJPEG, and MPEG-4 video and provides multiple recording modes including alarm recording, scheduled recording, manual recording and continuous recording. The installation is very simple as the camera is able to be inserted automatically when it's plugged in. It also offers a user-friendly interface for the user to configure the network settings and the camera control. Moreover, the 802.3af compliant PoE (Power-over-Ethernet) is able to reduce the complex of the installation, making NR8201/8301 the cost-effective recording systems.

The user can utilize the NR8201/8301 to record high-definition mega-pixel videos on removable hard disk(s) with large capacity and a USB interface for data backup. The NR8201 also supports an external hard disk from the eSATA interface, and the NR8301 supports RAID 0 and 1 storage solution. The built-in gateway separates the network camera connection and the data network connection for the prevention of network congestion. Functional four digital inputs and one digital output interfaces are capable of integrating with the security sensors and alarms. The NR8201/8301 are comprehensive network video recorders featuring with multiple functions to provide the best quality and highest performance in network video recording.

BUILT WITH RELIABILITY
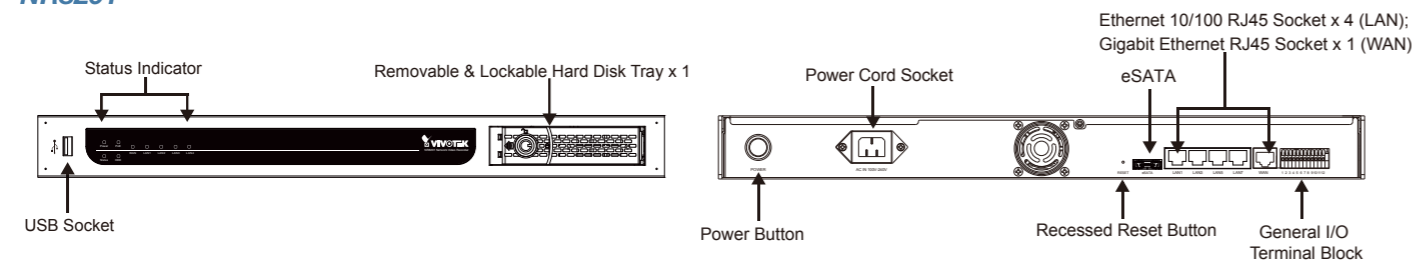
Features

NR8201/8301

- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- Simultaneous 4-CH (NR8201) and 8-CH (NR8301) Video Viewing & Recording
- Removable & Lockable HDD Design
- Compatible with VIVOTEK VAST Central Management Software*
- Built-in 802.3af Compliant PoE
- Camera Installation through Easily Plug and Play
- Professional Rack Mount Design
- External eSATA Interface for the Expansion of Video Recording (NR8201)
- Support RAID 0, 1 Scalable Storage Solution (NR8301)
- External USB Interface for Video Backup
- LED Indicator for Quick Status Display
- Integrated Firewall Protects System from Network Attacks and Unauthorized Access
- Built-in Gateway for Separating the Networks from the Network Cameras and Data Transmitting
- Support E-mail Alert Notification
- Power Timer for Power Safety
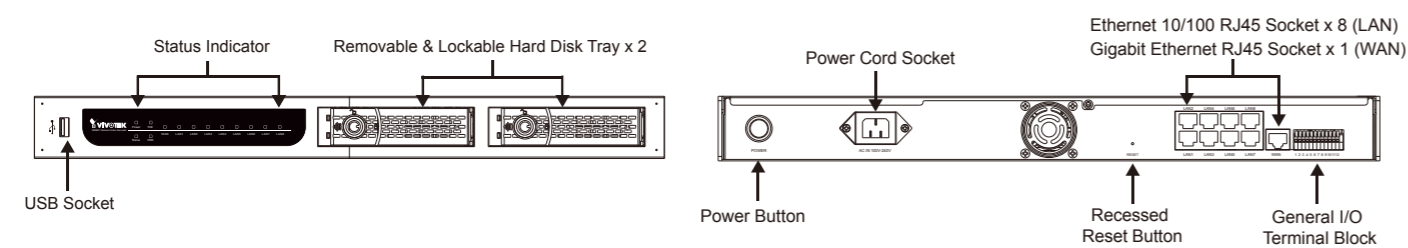- Support All Series of VIVOTEK Cameras

*The VIVOTEK VAST Central Management Software is not included in the package.
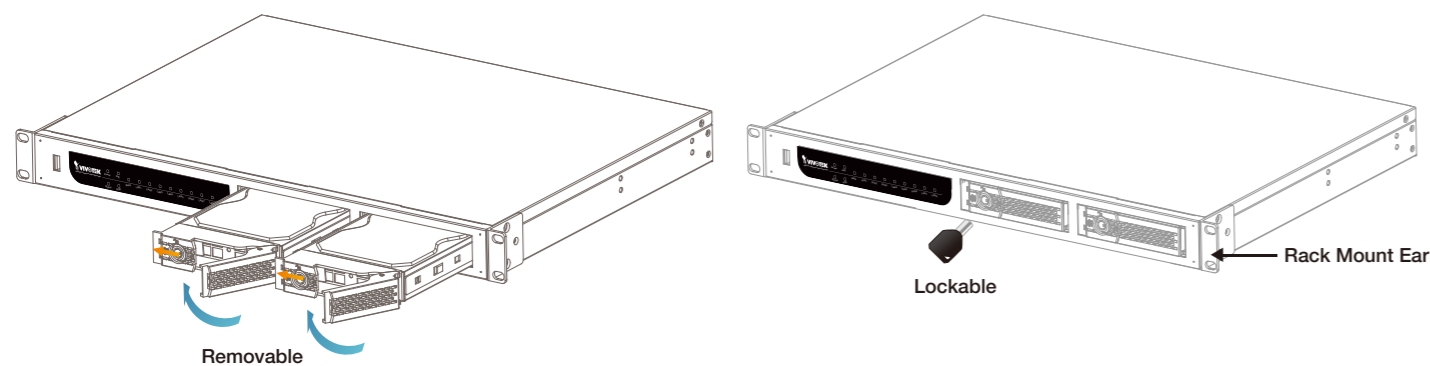
Physical Description

NR8201

Status Indicator

Removable & Lockable Hard Disk Tray x 1

Power Cord Socket

Ethernet 10/100 RJ45 Socket x 4 (LAN); Gigabit Ethernet RJ45 Socket x 1 (WAN)

eSATA

USB Socket

Power Button

Recessed Reset Button

General I/O Terminal Block

NR8301

Status Indicator

Removable & Lockable Hard Disk Tray x 2

Power Cord Socket

Ethernet 10/100 RJ45 Socket x 8 (LAN) Gigabit Ethernet RJ45 Socket x 1 (WAN)

USB Socket

Power Button

Recessed Reset Button

General I/O Terminal Block

Removable & Lockable HDD Design

Removable

Lockable

Rack Mount Ear

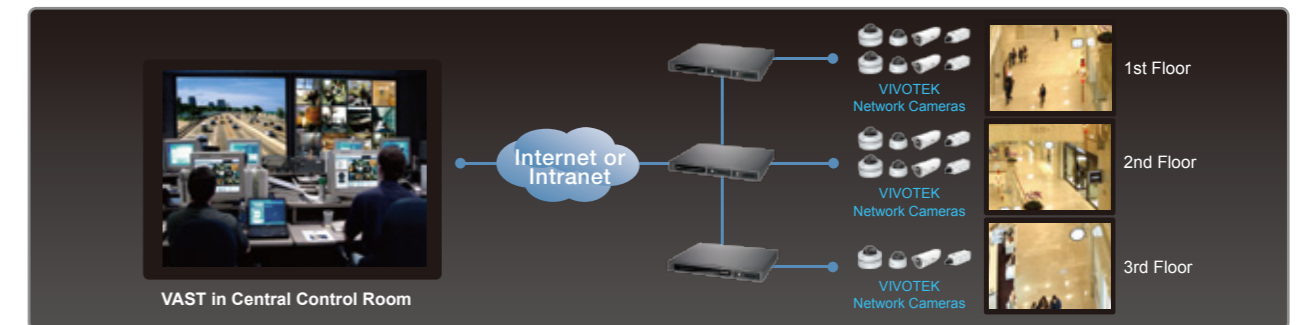## Compatible with VAST Central Management Software

The powerful integrated NR8201/8301 are compatible with the highly scalable central management software VAST providing live view, playback, and PTZ control for a large-scale application.
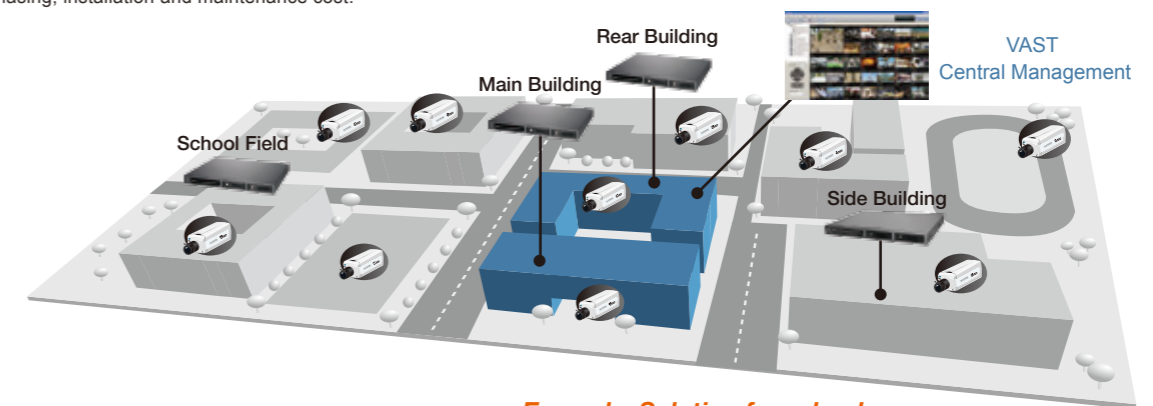

LiveClient

Centralized Management

8-CH PoE
Data Transmitting

NR8301

Power Supply

The Benefits of Distributed Recording:
- Ease of installation
- Cost effectiveness
- High reliability

Distributed Recording

Compatible with all VIVOTEK Cameras

4-CH PoE
Data Transmitting

Centralized Management

NR8201

Power Supply

Playback

Live View via web browser

Applications

Residential   School   Retail   Health Care   Factory   Government

Entry-level Installation

VAST in Central Control Room

Internet or Intranet

VIVOTEK Network Cameras   1st Floor
VIVOTEK Network Cameras   2nd Floor
VIVOTEK Network Cameras   3rd Floor

Multiple-site Structure for Medium to Large-scale Systems

VIVOTEK VAST can manage VIVOTEK NR8201/8301 as sub-stations, and also remotely monitor live image and playback media data of cameras managed by NVR. The NR8201/8301 can also serve as LAN/WAN gateway, internet router and PoE switch, which provides an all-in-one solution to reduce the purchasing, installation and maintenance cost.

Rear Building
Main Building
VAST Central Management
School Field
Side Building

Example: Solution for school