VIVOTEK ND8401 is a 16-CH Network Video Recorder designed for sophisticated recording applications. The unit is equipped with an Intel® Dual-core Processor with maximum recording throughput at a robust 96 Mbps. RAID 0/1/5/10 is supported with four HDDs, with an external eSATA port for additional expansion. Like VIVOTEK NVR ND8301, a local display output port is available with Full HD resolution (1920x1080), eliminating the need for a separate PC to view video from the unit. Setup of parameters such as IP address, HDD to logical volumes, and basic camera configuration can easily be performed with the setup wizard, making the ND8401 the easiest NVR to use yet. When connecting ND8401 to more than one of the same model of VIVOTEK camera, the "Shepherd" program can be used to duplicate the configuration to multiple cameras.

VIVOTEK's professional software VAST is installed in ND8401 with performance tuning, allowing for simple and effective management of a surveillance system using the LiveClient and Playback programs. As VIVOTEK's camera features are fully integrated into VAST, cutting-edge technologies such as Activity Adaptive Recording can be utilized to conserve bandwidth and optimize recording. A CMS server running VAST software can also directly control the ND8401, and compatibility with the iViewer application allows for remote access to the ND8401 on handheld devices. By integrating all of the components together using VIVOTEK's ND8401, network cameras, VAST and iViewer software, users can realize a fully-featured and robust next-generation surveillance system.

Features

Hardware
- Windows 7 Embedded
- Dual-Core Intel® Processor
- Standalone Desktop NVR Design
- Full HD Local Display
- RAID 0, 1, 5, 10 Storage Solution
- 4 x HDD Tray, Max. 16TB
- 2 x Gigabit RJ45 Ethernet Port
- 6 x USB Port
- External eSATA Interface
- Size: 204 mm (W) x 330 mm (D) x 215 mm (H)

Software
- Easy Installation and Configuration (Shepherd/Setup Wizard)
- VAST Inside (LiveClient/Playback)
- 16-CH Live View & 1-CH Playback
- H.264, MPEG-4 and MJPEG
- Multiple Recording Types & Event Trigger Sources
- Multiple Video Search Modes
- E-map
- Supported by VAST Central Management Software
- Full Integration with Most VIVOTEK Network Cameras
- VIVOTEK iViewer Support (iOS/Android)

*The VIVOTEK VAST Central Management Software is not included in the package.
## Technical Specifications

### System
- **CPU:** Dual-core Intel® processor
- **RAM:** 4GB DDRIII
- **OS:** Windows 7 embedded
- **Power Restoration:** System restart automatically after Power Recovery
- **System Recovery:** Recover operating system after restart every time

### Channels
- 16-CH selectable

### Storage
- 4 x 3.5" HDD, up to 16TB
- 4 x hot-swappable & lockable hard disk tray
- HDD S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology)
- RAID 0, 1, 5, 10
- External eSATA storage

### Connectors
- 1 x VGA for Full HD local display
- 1 x Gigabit RJ45 Ethernet port
- 6 x USB 2.0 port
- 1 x RS232
- 1 x eSATA
- 1 x MIC in and line in
- 1 x line out

### Camera Compatibility
- Full integration with most VIVOTEK network cameras
- Integration with ONVIF network cameras (ONVIF version 2.2 compatible)

### Easy Setup
- Setup Wizard for network/HDD/camera easy setup
- IW2 for search internal camera
- Shepherd for duplicating the camera's configuration to multiple cameras

### Networking
- IPv4, TCP/IP, HTTP, RTSP/RTPI/RTCP, IGMP, SMTP, DHCP, DNS
- CE, FCC Class B, VCCI, C-Tick
- Temperature: 0°C ~ 40°C
- Humidity: 20%~95% RH

### Recording
- Throughout: max. 96 Mbps
- Recording policy: scheduled (event/continuous modes) and manual recording
- Video compression: H.264/MJPEG/MPEG-4
- Audio compression: AMR/G.711/G.726/AAC
- Resolution: Up to 5-Megapixel recording
- Format: AVI/3GPP/EXE

### Display layout
- 1X1, 2X2, 3X3, 4X4, 1+5, 1+12

### Operating Environment
- Display performance:
  - MJPEG: 16-CH, 30 fps @ CIF
  - MPEG4: 16-CH, 30 fps @ CIF or 2-CH, 30 fps @ 1080P
  - H.264: 7-CH, 30 fps @ CIF or 1-CH, 30 fps @ 1080P
  - Auto stream size

### Application

#### Multi-site Chain Stores

![Multi-site Chain Stores Diagram](image)

1. **Site 1**: VAST CMS
2. **Site 2**: Web Browser
3. **Site 3**: VIVOTEK iViewer App

### Local Playback
- Display layout: 1X1
- Playback mode: play, pause, stop, next/previous, speed control
- Search mode: browsing, time, event, bookmark
- Graphical timeline
- Snapshot
- Bookmark design
- PIP video control
- Video enhancement
- Log viewer

#### Web Liveview
- Display layout: 1X1
- Playback mode: play, pause, stop, speed control
- Search mode: browsing, event
- Graphical timeline

### Event/Action Management
- Trigger sources: motion, temperature, tampering, DIO, IR, PIR, IVA, video lost, recording error, recording status, substation connection status, storage connection status, storage capacity status, license status, network status & memory status
- Actions: email, start recording, move to the preset position, set DO, GSM short message & send CGI command

### Security
- 5 levels of user roles
- Multi-level user access with password protection
- Device buzzer notification (HDD/network)

### Backup
- Manual/scheduled backup
- VIVOTEK iViewer (iOS/Android)

### Dimension
- **Width:** 304 mm
- **Height:** 330 mm
- **Depth:** 215 mm

### Part No.
- **ND8401**, USA: 100091100G
- **ND8401**, UK: 100091130G
- **ND8401**, AUN: 100091110G
- **ND8401**, EU: 100091120G
- **ND8401**, Mexico: 100091200G

All specifications are subject to change without notice. Copyright © VIVOTEK INC. All rights reserved.

### Distributed by:

- **VIVOTEK INC.**
  - 6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C.
  - T: +886-2-82455282 F: +886-2-82455532
  - E: sales@vivotek.com

- **VIVOTEK USA**
  - 2050 Ringwood Avenue, San Jose, CA 95131
  - T: 408-773-8686 F: 408-773-8298
  - E: salesusa@vivotek.com

- **VIVOTEK Europe**
  - Randstad 22-133, 1316BW Almere, The Netherlands
  - E: sales@vivotek.com

**Ver 1.4**