**D-Link Corporation**

**External Specification**

**2-bay Professional Network Video Recorder**

**DNR-326 ver. A1**

***Version 1.0***

Date: 2011/09/21

DNR-326 External Spec Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | **Revised Date** | Person Name | Content Revised |
| **1.00** | **2011/09/21** | **Steven Ku** | **First Edition** |
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1. Introduction

DNR-326 is a standalone wired Network Video Recorder (NVR) which supports multi-channel network cameras with M-JPEG, MPEG4 or H.264 recording with 2 high-speed 3.5-inch SATA hard disks for long time recording. Thanks to the powerful embedded system, the NVR can record video from network cameras located in local or remote sites into a dedicated HDD storage without turn on PC.

DNR-326 can be setup for Internet access by PPPoE and DDNS. It supports real-time monitoring and playback from everywhere via IE browser. The triplex function can keep recording while user live viewing or searching playback at the same time. With complete video management, display and playback ability makes it as a convenient and stable video recorder.

DNR-326 is a professional NVR design for small and medium business, it supports all

D-Link network cameras and multiple brand cameras (like Axis, Panasonic, Sony, Mobotix,

Arecont Vision, IQinVision, Cisco and ACTi).(Detail list is provided separately). With Smart

Search during playback, it brings intelligence to the device and dramatically reduces the pain of

searching recorded video. To support DI/DO recording and control makes it a event management

center of whole surveillance system. Furthermore, the bundle software – “D-ViewCam NVR” can

connect and group multiple NVR, and display them in a split window.

1. Product Features
   1. Key Features:

* Easy network camera setup and management
* Simultaneous live view, recording and playback
  + Support up to 9-channel live view and recording
  + Supports 4 channel playback simultaneously
* Supports M-JPEG, MPEG4 or H.264 compression format
* Week days or daily scheduled recording
* Audio & video recording in synchronization
* Recording Type: recording by schedule, manual and event (DI trigger, motion detection from camera)
* Continuously recording with automatic overwrite function
* Power fail recovery recording
* File sharing server support with Samba protocol on second HDD
* Embedded two SATA II 3.5” HDD interface, support 3TB HDD
* RAID 0/1 and JBOD supported
* One 10/100/1000 Mbps auto-MDIX fast Ethernet LAN port
* PPPoE, DHCP and Static IP assignment support
* Green solution with low power consumption and eliminating the use of a PC
* User-friendly UI for live view with full-screen, snapshot and PTZ control
* User-friendly UI for playback with step/fast forward/rewind, enhance video and backup
* Calendar search and video preview before playback
* Export video clips from the playback as evidence
* For home and SMB indoor use
* Supports D-Link network cameras and multiple brand cameras (include Axis, Panasonic, Sony, Mobotix, Arecont Vision, IQinVision, Cisco and ACTi)
* Support file server feature
* Smart Search technology accelerates and simplifies event investigation
* Supports DI/DO event trigger and management
* Supports multi-NVR viewer software (can connect DNR-322L as well, DNR-322L doesn’t include this software module)
  1. H/W Features
     1. Specification

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| --- | --- |
| **Key Components / Interfaces** | |
| Main Processor | ARM RISC processor (1.2GHz) |
| Flash ROM | 128MB |
| RAM | 256MB DDRII |
| NIC | Giga LAN port (10/100/1000 Ethernet LAN ) |
| I/O ports | RJ45 port x1 (auto MDI/MDIX)  DC-in jack x1  USB port for UPS status update |
| Power Adapter | DC12V/4A |
| Reset Button | Reset to factory default |
| Power Consumption | Max. power consumption: 25.20 W Standby state max. power consumption: 0.234W |
| Dimension | 178.5 (H) x 146.4 (D) x 115 (W) mm |
| Weight | 875.1g |
| Security lock hole | Protect your NAS from theft by locking it down with Kensington lock. |
| Cooling FAN | Cooling FAN with 3 control modes, and the Fan Operation Temperature:   * + - * + Fan Off: 46℃         + Fan Low Speed: 49℃         + Fan High Speed: 52℃ |

* + 1. LED indicators

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| --- | --- | --- | --- |
| **LED Indicative** | **Color** | **Status** | **Description** |
| Power LED | Blue | Solid Light | Power is on, device is in a ready state and device is cold |
| Blinking Blue | Booting / Restart |
| Light off | Power is off or Power saving mode |
| HDD1 LED | Blue | Solid Light | HDD is present |
| Blinking | HDD is writing/reading |
| Light off | Power is off or no hard drive inserted |
| Orange | Solid Orange | Hard drive is installed but failed |
| HDD2 LED | Blue | Solid Light | HDD is present |
| Blinking | HDD is writing/reading |
| Light off | Power is off or no hard drive inserted |
| Orange | Solid Orange | Hard drive is installed but failed |
| LAN -  Link/ACT (Right) | Green | Solid Light | While connected to LAN port |
| Blinking | While transferring data |
| Light off | Not connected, power is off. |
| LAN-  Speed (Left) | Green | Solid Light | While connected to Gigabit Ethernet |
| Light off | While connected to Fast Ethernet |

* + 1. Button:

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| --- | --- | --- |
| **Button Indicative** | **Status** | **Description** |
| Power | Push | Power on |
| Push over 5 sec | Power Off |
| Reset | Push over 10 sec | Reset configuration to default |

\* System will auto recovery while power fail in accident, except user turn off the device normally by push the power button over 5 seconds.

* 1. Software Features

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| --- | --- |
| **Feature Item** | **Detailed Description** |
| OS | Linux |
| Standards | - IEEE 802.3/u/z  - auto MDI/MDI-X  - SATAI, II. |
| Network Service Protocols | - IPV4, ARP, TCP, UDP, ICMP  - DHCP Server  - DHCP Client  - NTP Client (D-Link)  - DNS Client  - DDNS Client (D-Link)  - SMTP Client  - HTTP Server  - PPPoE  - UPnP  - IP filtering  - Samba Server |
| Network Client OS Type | - Microsoft: XP, Vista, 7 |
| User Interface | - HTTP Web browser  - Internet Explorer v7 or later  - NVR Search utility  - Multiple Language GUI |
| HDD | - HDD control & manage via PC  - Reformat Disk  - RAID 0  - RAID 1  - JBOD |
| File Server | File sharing as NAS(only works on second HDD) |
| Two RESET modes | - Reset firmware GUI button  - Reset by HW reset button (press over 5 seconds) |
| Camera Search | UPnP |
| Audio & Video Recording | Audio & video recording in synchronization. |
| Compression Format | H.264, MPEG-4;M-JPEG (depends on IP camera) |
| Video Setting | Resolution, quality, frame rate, enable audio, go to camera interface |
| Cameras support | Support all D-Link IP cameras and multiple brand cameras (include Axis, Panasonic, Sony, Mobotix, Arecont Vision, IQinVision, Cisco and ACTi)  Include 1.3 Megapixel and HD resolution |
| Recording Performance | To enable the File Server function will affect the recording performance. It also differs by video compression.   |  |  |  | | --- | --- | --- | | Max. capacity | File Server | | | OFF | ON | | H.264 1080P (bitrate) | 90Mbps | 68Mbps | | H.264 720P (bitrate) | 90Mbps | 68Mbps | | MJPEG 1080P (frame rate) | 90fps | 70fps | | MJPEG 720P (frame rate) | 192fps | 150fps | |
| Recording Type | Recording by schedule, event(motion detection) and manual record |
| Remote Live View | Supported via IE remote live viewer  Maximum 9 channels at the same time |
| Remote Live View Control | Live view, preset/go, patrol, focus, PTZ functions, snapshot, Full screen, Auto scan, Digital zoom(Zoom in & Zoom out) |
| Remote Playback | Supported via IE and NVR client  Playback system with timeline GUI, search by event, area, cameras, date and time  IE & NVR client support 4 channels playback |
| Remote Playback Control | Playback with normal, fast forward/backward and step forward/backward |
| Smart Search | Intelligent detection function: General Motion, Missing Object, Foreign Object, Camera Occlusion, Lose Focus |
| Auto Recycling Recording | Auto recycling when storage disk is full |
| E-Map | Support user upload E-Map |
| File Export | Export video to “AVI” or “ASF” file  Export Image to “BMP” or “JPG” file |
| Digital Watermark Tool | To prevent recorded video files/snapshots from being tampered, provide a tool for verification |
| User Account | Additional accounts can be created to allow user access to the system  And specify authorization for camera channel, PTZ, etc. |
| DDNS | D-Link DDNS server support |
| System Time | Set the system time(D-Link NTP, Input time, Synch with computer ,Daylight Saving’s Time) |
| Auto Backup | NVR can backup recorded data to remote FTP site by daily schedule |
| Remote Backup | Remote software can backup raw data to redundant storage |
| System Status | Camera status, System status |

1. Physical & Environment
   1. MINIMUM SYSTEM REQUIREMENTS

**OS Support**

+ Windows XP SP2, Vista or 7 (32bit)

+ Web browser -Internet Explorer v7or above

+ Computer with:

* + Pentium 4 – 2.4 GHz
  + 512MB RAM

3.2 Environment

**OPERATING TEMPERATURE**

+ Operating: 0˚ to 55˚ C (32˚ to 131˚ F)

+ Storage: -20˚ to 70˚ C (-4˚ to 158˚ F)

**HUMIDITY**

+ Operating: 5% to 90% (non-condensing)

**SECURITY**

+ Device lock hole

**3.3 PACKAGE CONTENTS**

+ 2-Bay NVR

+ Power Adapter

+ Ethernet Cable

+ Quick Installation Guide

+ Power Cable Clip

+ CD-ROM with:

- Software

- Product Documentation

1. Product picture

