

## Product Highlights

### Concurrent Viewing

Record and view real-time video from up to nine cameras in the office or remotely over the Internet

### Easy Setup and Configuration

mydlink technology enables easy setup of remote viewing using a web browser over the Internet

### Flexible and Dependable

With up to 6 TB of storage you can choose to record all the time, define a precise schedule, or simply record in response to events



## DNR-312L

# mydlink One-bay Standalone NVR

## Features

### Trustworthy Surveillance

- Reliable network camera surveillance recorder for home and DIY users
- View real-time and recorded video of all nine cameras from anywhere in your home or office, or remotely via the Internet
- M-JPEG, MPEG-4 or H.264 video format

### Convenient Interface

- Effortless network camera setup and management
- User-friendly interface provides 9 channels of simultaneous live view, recording, and playback and PTZ control
- Continuous or scheduled recording with automatic overwrite function

### Precision Technology

- One-bay SATA 3.5" HDD interface, up to 6 TB of hard disk storage space of recorded video<sup>1</sup>

### Flexible and Scalable

- Stand-alone device: Eliminates the need for a dedicated PC
- Supports D-Link network cameras
- Power fail recovery recording
- One 10/100/1000 Mbps auto-MDIX fast Ethernet LAN port

The DNR-312L mydlink One-bay Standalone NVR is a standalone storage device that can record video from up to nine network cameras to its dedicated HDD storage<sup>1</sup> without requiring users to turn on their PC. Empowered by mydlink technology, the DNR-312L supports real-time remote monitoring and playback via a web browser using the mydlink website or the NVR's web GUI. The DNR-312L has the ability to continue recording live while a user is viewing or searching footage at the same time. With complete video management, the DNR-312L's display and playback ability make it a convenient and effective video recorder.

## mydlink Technology on your Mobile Device

Empowered with mydlink technology, the DNR-312L enables users to remotely view and manage mydlink enabled devices from anywhere via a web browser using the mydlink website or the NVR's web interface. Additionally, using the mobile app means you can access and monitor your DNR-312L from your mobile devices.

## Versatile Monitoring

Users are provided with a variety of options for viewing and organizing camera footage on-screen. For a system with multiple channels, users can simply drag and drop selected cameras to the viewing area. Camera names and recording statuses are displayed via the on-screen display. A single camera may be viewed full-screen with two-way audio support. Users can control pan/tilt/zoom (PTZ) functions from within the interface or by directly clicking on the video.

## Secure Storage

Administrators may filter external connections to the NVR by IP address, limiting access and thus increasing security. Administrators may also choose access privileges for users by specifying the cameras they may access. The recorded data can be backed up to additional storage locations periodically or whenever needed.

## Extensive Recording Functionality

The DNR-312L's clear interface allows for easy configuration including compression, resolution, and frame rate for all connected cameras. Once the cameras have been set up, recordings can be made continuously, or according to a user-defined schedule. The NVR also provides event recording based on specific triggers such as when motion is detected.

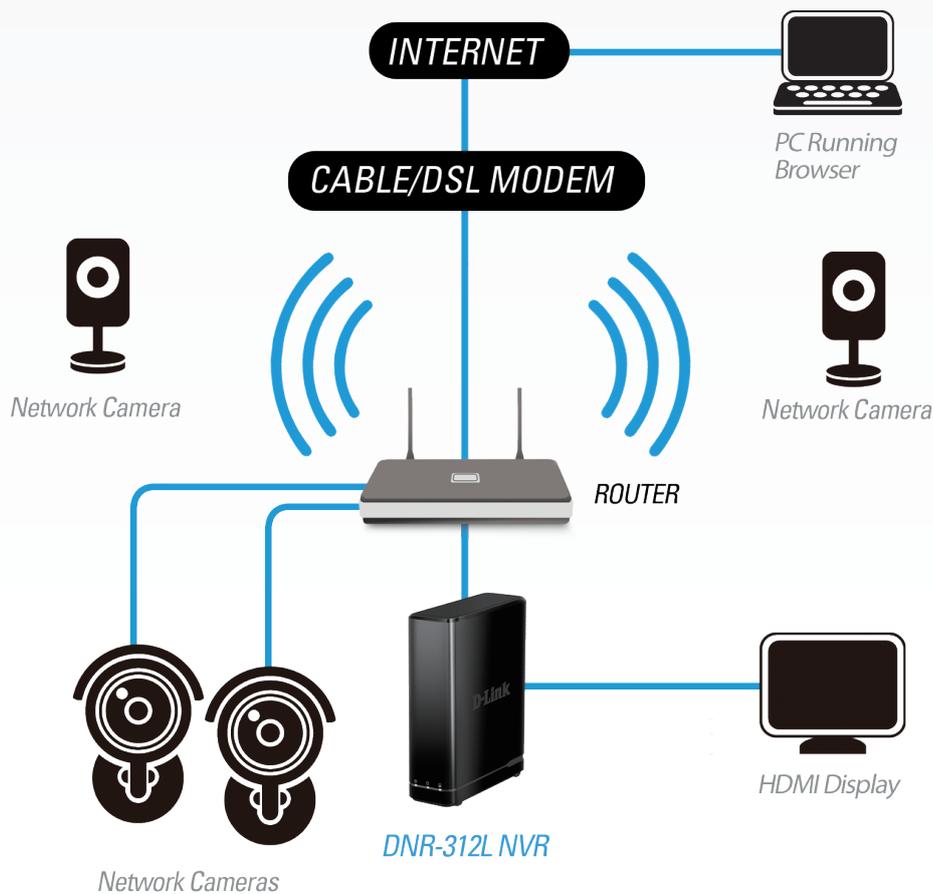
## Convenient and Reliable

The DNR-312L can manage multiple network cameras, providing direct access to view live video and play recorded data over the Internet from anywhere, anytime. Complete video management and the ability to playback and record new video simultaneously, the DNR-312L is an extremely convenient and effective video recorder. Moreover, the small size and portability of the DNR-312L make it easy to deploy in any location.

## Bundled NVR Software

The NVR software bundled with the DNR-312L consists of five main components including a Playback Manager, a Backup System, and a very versatile search tool. The Playback Manager includes a clean and simple web GUI interface that allows users to play, search, or export video. The Backup System is a flexible backup utility that greatly simplifies the process of backing up video data from the NVR to external storage.

## Network Setup



## Technical Specifications

### General

Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3/u/z</li> <li>• Auto MDI/MDI-X</li> </ul>	<ul style="list-style-type: none"> <li>• SATA I, II, III</li> </ul>
HDD <sup>1</sup>	<ul style="list-style-type: none"> <li>• Reformat Disk</li> <li>• Up to 6 TB HDD</li> </ul>	<ul style="list-style-type: none"> <li>• EXT3 file system</li> </ul>
Two Reset Modes	<ul style="list-style-type: none"> <li>• Reset firmware GUI button</li> </ul>	<ul style="list-style-type: none"> <li>• HW reset button (hold for 10 seconds)</li> </ul>
Reset Button	<ul style="list-style-type: none"> <li>• Reset to factory default</li> </ul>	

### Performance

Flash ROM	<ul style="list-style-type: none"> <li>• 128 MB</li> </ul>	
RAM	<ul style="list-style-type: none"> <li>• 1024 MB DDR III</li> </ul>	
Network Interface	<ul style="list-style-type: none"> <li>• Gigabit Ethernet LAN port (10/100/1000 Mbps)</li> </ul>	
I/O Ports	<ul style="list-style-type: none"> <li>• RJ-45 port</li> <li>• DC-in jack</li> <li>• HDMI (only supports 1080p resolution with 16:9 display ratio)</li> </ul>	<ul style="list-style-type: none"> <li>• 2 x USB 2.0 port (Mouse, Flash Disk, HDD with external power)</li> <li>• 3.5 mm audio input x 1, output x 1</li> </ul>
Power Adapter	<ul style="list-style-type: none"> <li>• DC 12 V/3 A</li> </ul>	

### Software Features

OS	<ul style="list-style-type: none"> <li>• Linux</li> </ul>	
Supported Cameras	<ul style="list-style-type: none"> <li>• Supports all D-Link network cameras and megapixel resolution</li> </ul>	
System Requirements for Web Interface	<ul style="list-style-type: none"> <li>• Browser: Internet Explorer, Firefox, Chrome, or Safari</li> </ul>	
Recording Performance	<ul style="list-style-type: none"> <li>• First video profile: <ul style="list-style-type: none"> <li>• H.264 at 720p at 270 fps</li> <li>or</li> <li>• H.264 at 1080p at 135 fps</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Secondary video profile: <ul style="list-style-type: none"> <li>• H.264 at VGA at 135 fps</li> </ul> </li> </ul>
Camera Search	<ul style="list-style-type: none"> <li>• UPnP</li> </ul>	
Audio and Video Recording	<ul style="list-style-type: none"> <li>• Synchronized audio &amp; video recording</li> </ul>	
Compression Format	<ul style="list-style-type: none"> <li>• H.264, MPEG-4, M-JPEG</li> </ul>	
Video Setting	<ul style="list-style-type: none"> <li>• Resolution, quality, frame rate, enable audio, go to camera interface</li> </ul>	
Recording Type	<ul style="list-style-type: none"> <li>• Record by schedule, manual, and event-based recording</li> </ul>	<ul style="list-style-type: none"> <li>• Motion-triggered recording</li> </ul>
Remote Live View	<ul style="list-style-type: none"> <li>• Supported via browser</li> </ul>	<ul style="list-style-type: none"> <li>• Supports mydlink portal</li> </ul>
Remote Live View Control	<ul style="list-style-type: none"> <li>• Live view, preset/go, patrol, focus, PTZ functions, snapshot, full screen, digital zoom</li> </ul>	<ul style="list-style-type: none"> <li>• e-map</li> </ul>
Remote Playback Control	<ul style="list-style-type: none"> <li>• Playback with normal, fast forward/rewind and step forward/rewind</li> </ul>	
Remote Playback	<ul style="list-style-type: none"> <li>• Supported via browser and NVR client</li> <li>• Playback system with timeline GUI, search by event, area, cameras, date, and time</li> </ul>	<ul style="list-style-type: none"> <li>• Browser or NVR Remote Client support four channel simultaneous playback</li> <li>• Digital zoom</li> </ul>
Overwrite Recording	<ul style="list-style-type: none"> <li>• Auto recycling when disk storage is full</li> </ul>	
File Export	<ul style="list-style-type: none"> <li>• Local : Export videos to AVI</li> <li>• Remote: Export videos to AVI or ASF file</li> </ul>	<ul style="list-style-type: none"> <li>• Export images to BMP or JPG file</li> </ul>
User Account	<ul style="list-style-type: none"> <li>• Additional accounts can be created to allow users system access and specify authorization for camera channels, PTZ</li> </ul>	

DDNS	• D-Link DDNS and DynDns server support	
System Time	• Set the system time (D-Link NTP, input time, sync with computer, Daylight Saving Time)	
Remote Backup	• Remote backup software can backup raw data to redundant storage	
System Status	• Camera status • Still picture EMAP support	• System status
Network Service Protocols	• IPV4, ARP, TCP, UDP, ICMP • DHCP Client • NTP Client • DNS Client • DDNS Client • SMTP Client • FTP Client	• HTTP Server • IP filtering • UPnP • HTTPS • Bonjour • SNMP
User Interface	• HTTP Web browser • mydlink portal	• Smart phone • NVR Search utility
Package Contents	• mydlink One-bay Standalone NVR • Power Adapter • Ethernet Cable • Quick Installation Guide	• CD-ROM with: • Software • Product Documentation

**Physical**

Weight	• 0.425 kg (0.93 lbs)	
Maximum Power Consumption	• 30 W	
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Storage: -20 to 70 °C (-4 to 158 °F)
Humidity	• 5% to 90% non-condensing	
Certifications	• CE • FCC	• RoHS • BSMI

Dimensions	<p>The diagram shows two views of the NVR. The top view is a perspective drawing of the front face, with a width dimension of 141.6 mm and a depth dimension of 49.8 mm. The bottom view is a side profile drawing showing the height of the device as 173 mm. The front view also features the D-Link logo in the center.</p>	
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# DNR-312L mydlink One-bay Standalone NVR

Order Information	
<i>Part Number</i>	<i>Description</i>
DNR-312L	mydlink One-bay Standalone NVR

<sup>1</sup> Hard disk not included.

Updated 2014/09/29