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D-Link DWA-140

D-Link DWA-140 RangeBooster Draft 802.11n Wireless USB Adapter User Manual

Model: DWA-140 | Brand: D-Link

1. INTRODUCTION

The D-Link DWA-140 RangeBooster N USB Adapter is designed to provide high-speed wireless connectivity for your desktop or notebook PC. Utilizing Draft 802.11n technology, this adapter offers significantly faster speeds and extended range compared to standard 802.11g networks, while maintaining backward compatibility. It enables seamless sharing of high-speed internet connections, files, photos, music, and printers across your network.

This manual provides detailed instructions for the installation, configuration, and maintenance of your DWA-140 adapter, ensuring you can maximize its performance and features.



Figure 1.1: The D-Link DWA-140 RangeBooster Draft 802.11n Wireless USB Adapter.

2. PACKAGE CONTENTS

Please verify that your package contains the following items:

- D-Link DWA-140 RangeBooster N USB Adapter
- USB Cradle with Extension Cable
- Resource CD (includes Drivers, Utility, and User Manual)
- Quick Installation Guide

If any of the above items are missing or damaged, please contact your local D-Link reseller for assistance.



Figure 2.1: The DWA-140 USB Adapter shown with its accompanying USB cradle, designed for flexible placement.

3. SETUP AND INSTALLATION

3.1 Hardware Installation

1. **Power Off Your Computer:** For best practice, power off your computer before connecting the adapter.
2. **Connect the Adapter:** Insert the DWA-140 USB Adapter directly into an available USB port on your computer, or connect it to the provided USB cradle and then plug the cradle's cable into a USB port. The cradle allows for optimal positioning of the adapter for better signal reception.
3. **Power On Your Computer:** Once the adapter is physically connected, power on your computer.

3.2 Software Installation

The D-Link Quick Adapter Setup Wizard simplifies the installation process. Follow these steps:

1. **Insert the Resource CD:** Place the included Resource CD into your computer's CD/DVD drive. The setup wizard should launch automatically. If it does not, navigate to the CD drive in 'My Computer' or 'This PC' and run the 'Setup.exe' file.
2. **Follow On-Screen Instructions:** The wizard will guide you through the driver and utility installation. Select your preferred language and accept the license agreement.
3. **Complete Installation:** Once the installation is complete, you may be prompted to restart your computer. Please do so to ensure all drivers are properly loaded.

4xrange¹
up to
12xspeed¹

Wireless range and speed rates are D-Link **RELATIVE** performance measurements based on the wireless range and speed rates of a standard Wireless G product from D-Link.



RANGEBOOSTER N[®] USB ADAPTER

Wirelessly connect to the Internet for work or play

Greater wireless reception around your home or office

Backward compatible with 802.11g networks



EXCEPTIONAL PERFORMANCE

The D-Link[®] RangeBooster N[®] USB Adapter (DWA-140) is a draft 802.11n compliant wireless client for your desktop or notebook PC. It delivers up to 12x faster speeds¹ and 4x farther range¹ than an 802.11g network while staying backward compatible with 802.11g networks. Once connected, you can share a high-speed Internet connection, photos, files, music, printers, and more.

GET CONNECTED, STAY CONNECTED

The DWA-140 is powered by RangeBooster N technology to provide superb wireless performance in the home or office. Connect to a RangeBooster N Router (DIR-628) and experience smooth Internet phone calls (VoIP), responsive network gaming, secure Web surfing, faster file transfers, enhanced audio streaming, and greater wireless coverage in larger homes and offices¹. The DWA-140 supports WPA[™] and WPA2[™] encryption and includes a Wi-Fi Protected Setup[™] (WPS) Push Button to easily connect to a wireless network.

EASY TO SETUP, EASY TO USE

The D-Link Quick Adapter Setup Wizard guides you step-by-step through the installation process. Configure this USB adapter without having to call a networking expert to help you. The D-Link Wireless Manager is also included with this product to keep track of your most frequently accessed networks so that you can join them quickly and easily.

With unmatched wireless performance, reception, and security protection, the D-Link RangeBooster N USB Adapter (DWA-140) is a great choice for easily adding or upgrading wireless connectivity to your desktop or notebook PC.

WIRELESS

N

DWA-140

Figure 3.1: The DWA-140 packaging, emphasizing its enhanced range and speed capabilities.

4. OPERATING THE ADAPTER

After successful installation, the D-Link Wireless Manager utility will help you connect to wireless networks.

1. **Launch Wireless Manager:** The D-Link Wireless Manager icon should appear in your system tray (bottom-right corner of your screen). Double-click it to open the utility.
2. **Scan for Networks:** The utility will automatically scan for available wireless networks in your vicinity. A list of detected networks (SSIDs) will be displayed.

3. **Connect to a Network:** Select your desired wireless network from the list. If the network is secured (recommended), you will be prompted to enter the network's security key or passphrase (WPA, WPA2, or WEP).
4. **Confirm Connection:** Once the correct key is entered, click 'Connect'. The adapter will attempt to establish a connection. Upon successful connection, the utility will show the connection status as 'Connected' and display signal strength.

The DWA-140 supports WPA and WPA2 encryption, providing robust security for your wireless communications. For optimal performance, connect to a D-Link RangeBooster N Router (e.g., DIR-625) to experience enhanced audio streaming, faster file transfers, and greater wireless coverage.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your D-Link DWA-140 adapter, follow these maintenance guidelines:

- **Keep Clean:** Regularly wipe the adapter with a soft, dry cloth. Avoid using liquid cleaners or aerosols, which can damage the device.
- **Avoid Extreme Conditions:** Do not expose the adapter to extreme temperatures, humidity, or direct sunlight.
- **Proper Handling:** Handle the adapter with care. Avoid dropping it or subjecting it to strong impacts.
- **Ventilation:** Ensure the adapter's vents (if any) are not obstructed to prevent overheating.
- **Software Updates:** Periodically check the official D-Link website for updated drivers and firmware to ensure compatibility and performance improvements.

6. TROUBLESHOOTING

If you encounter issues with your D-Link DWA-140 adapter, refer to the following common problems and solutions:

- **No Wireless Connection:**
 - Ensure the adapter is securely plugged into a USB port.
 - Verify that the wireless network (router/access point) is powered on and broadcasting.
 - Check if the correct network security key (password) has been entered.
 - Restart your computer and the wireless router.
- **Slow Connection Speed:**
 - Ensure the adapter is positioned for optimal signal strength, ideally using the USB cradle.
 - Reduce interference from other electronic devices (cordless phones, microwaves).
 - Update the adapter's drivers from the D-Link website.
 - Check your router's settings to ensure it is operating in 802.11n mode if supported.
- **Adapter Not Detected:**
 - Try plugging the adapter into a different USB port.
 - Reinstall the drivers from the Resource CD or download the latest drivers from D-Link's support website.
 - Check Device Manager (Windows) to see if the adapter is listed and if there are any error indicators.

For more advanced troubleshooting or persistent issues, please refer to the comprehensive user manual on the Resource CD or visit the D-Link support website.

7. SPECIFICATIONS

Feature	Detail
Model Number	DWA-140
Product Dimensions	3.46 x 1.1 x 0.47 inches
Item Weight	7.2 ounces (0.45 Pounds)
Hardware Interface	USB 2.0
Data Link Protocol	IEEE 802.11g, Draft 802.11n
Data Transfer Rate	Up to 300 Megabits Per Second (Mbps)
Compatible Devices	Desktop, Notebook PC
Compatible Operating System Family	Windows (including 64-bit versions)
Color	Black/Gray
Manufacturer	D-Link Systems, Inc.
First Available Date	December 5, 2007

8. WARRANTY AND SUPPORT

D-Link products are backed by a limited warranty. For specific warranty terms and conditions applicable to your DWA-140 adapter, please refer to the warranty information included with your product or visit the official D-Link website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, driver downloads, and additional resources, please visit the D-Link support portal on their official website. You can typically find support by searching for your product model (DWA-140) on the D-Link support page.

Legal Disclaimer: This product is sold as brand new and factory sealed. Any claims regarding performance metrics such as '12x faster speeds' and '4x farther range' are relative performance measurements based on D-Link's 802.11n devices compared to standard Wireless G products from D-Link. Actual data throughput and wireless range will vary due to network conditions, environmental factors (e.g., building materials, network traffic), and overhead.