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D-Link DIR-655

D-Link Wireless N300 Mbps Extreme-N Gigabit Router (DIR-655) Instruction Manual

Model: DIR-655

1. PRODUCT OVERVIEW

The D-Link Extreme-N Gigabit Router (DIR-655) is a high-performance networking device designed to provide fast and reliable internet access. It is compliant with the draft 2.0 802.11n standard, offering significantly faster speeds and extended range compared to 802.11g devices, while maintaining backward compatibility. This router allows users to connect to a cable or DSL modem to share high-speed internet across multiple devices, including computers, game consoles, and media players. It facilitates the creation of a secure wireless network for sharing files, music, videos, and printers.



Figure 1: D-Link Wireless N300 Mbps Extreme-N Gigabit Router (DIR-655)

2. SETUP INSTRUCTIONS

Follow these steps to set up your D-Link DIR-655 router:

1. **Unpack the Router:** Carefully remove the router and all included accessories from the packaging. Ensure you have the router, power adapter, and Ethernet cable.
2. **Connect to Modem:** Power off your cable or DSL modem. Connect one end of the provided Ethernet cable to the WAN (Internet) port on the DIR-655 router (often blue or labeled "Internet"). Connect the other end of the Ethernet cable to your modem's Ethernet port.
3. **Power On Modem:** Power on your modem and wait for it to fully initialize (usually indicated by stable status lights).
4. **Power On Router:** Connect the power adapter to the router's power input and then plug it into a power outlet. Press the On/Off button if available. Wait approximately 2 minutes for the router to start up. The LED indicators on the front panel will light up, indicating its status.
5. **Initial Configuration:**
 - **Via Web Browser:** Connect a computer to one of the router's LAN ports using an Ethernet cable, or connect wirelessly using the default Wi-Fi network name (SSID) and password found on the router's label. Open a web browser and enter `http://dlinkrouter.local` or `192.168.0.1` in the address bar. Follow the on-screen instructions to complete the setup.
 - **Via Mobile App:** Download the D-Link Wi-Fi app from your device's app store. Follow the app's instructions to detect and configure your router.
6. **Secure Your Network:** During initial setup, change the default Wi-Fi network name (SSID) and password to a strong, unique password for enhanced security.

3. OPERATING INSTRUCTIONS

Once your D-Link DIR-655 router is set up, you can manage and optimize your network:

- **Wireless Connectivity:** The router supports 802.11n wireless standard, operating on a single 2.4 GHz frequency band. Ensure your wireless devices are compatible with this standard for optimal performance.
- **Wired Connections:** Utilize the Gigabit LAN ports on the back of the router to connect devices such as desktop computers, gaming consoles, or network-attached storage (NAS) for high-speed wired connections.
- **USB Port Functionality:** The router features a USB port. This can be used to:
 - **Share a Printer:** Connect a USB printer to the router to make it accessible to all devices on your network.
 - **Share Storage:** Attach an external USB hard drive or flash drive to create network-attached storage, allowing network users to access files.
- **Quality of Service (QoS):** The Intelligent QoS technology automatically prioritizes internet traffic. This ensures that bandwidth-intensive applications like online gaming and Voice over IP (VoIP) calls receive priority, providing a smoother experience.
- **Network Security:** The dual active firewall protection (SPI and NAT) helps safeguard your network from external threats and malicious attacks from the internet.

4. KEY FEATURES

- **High-Speed Wireless-N:** Delivers speeds up to 14 times faster and 6 times farther range than 802.11g, providing extensive coverage for your home or office.
- **Optimized for Multimedia:** Ideal for streaming high-definition (HD) video and running multiple applications

simultaneously without lag.

- Intelligent QoS:** Prioritizes both wired and wireless internet traffic to enhance gaming and VoIP experiences.
- Gigabit Ethernet Ports:** Equipped with Gigabit LAN ports for incredibly fast wired network speeds, perfect for connecting high-bandwidth devices.
- Advanced Firewall Protection:** Features dual active firewall protection (Stateful Packet Inspection - SPI and Network Address Translation - NAT) to block unauthorized access and protect your network from internet-based attacks.

5. SPECIFICATIONS

Attribute	Detail
Model Number	DIR-655
Brand	D-Link
Wireless Standard	802.11n (Draft 2.0)
Frequency Band	Single-Band (2.4 GHz)
Connectivity Technology	Wired, Wireless
Ethernet Ports	Gigabit LAN Ports, Gigabit WAN Port
USB Port	Yes (for printer/storage sharing)
Dimensions (L x W x H)	7.6 x 4.6 x 1.2 inches (193 x 117 x 30 mm)
Item Weight	11.2 ounces (317.5 grams)
Color	White
Included Components	Cables and Cable Adapters, Modem Cables
Security Features	Dual Active Firewall (SPI and NAT)

6. TROUBLESHOOTING

If you encounter issues with your D-Link DIR-655 router, consider the following troubleshooting steps:

- No Internet Connection:**
 - Verify that your modem is working correctly and has an active internet connection.
 - Check all cable connections between the modem and the router, ensuring they are secure.
 - Power cycle both your modem and router: unplug them from power, wait 30 seconds, then plug the modem back in. Once the modem is fully online, plug the router back in.
- Slow Wireless Speeds:**
 - Ensure your devices are within optimal range of the router.
 - Minimize interference from other electronic devices (cordless phones, microwaves) operating on the 2.4 GHz band.
 - Check for firmware updates for your router on the D-Link support website.
- Cannot Access Router Settings:**
 - Ensure your device is connected to the router's network (wired or wireless).

- Try accessing the router's web interface using `http://dlinkrouter.local` or `192.168.0.1` .
- If you forgot your password, perform a factory reset (see Maintenance section).

- **Dropped Connections:**

- Adjust the router's antennas for better signal strength.
- Ensure the router is placed in a central location, away from obstructions.
- Check for conflicting IP addresses on your network.

7. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your router:

- **Firmware Updates:** Periodically check the D-Link support website for the latest firmware updates. Updating firmware can improve performance, add new features, and fix security vulnerabilities.
- **Physical Placement:** Place the router in a well-ventilated area to prevent overheating. Avoid placing it in enclosed spaces or near heat sources.
- **Regular Reboots:** Occasionally rebooting your router (unplugging it for 10-15 seconds and plugging it back in) can resolve minor connectivity issues and improve performance.
- **Factory Reset:** If you experience persistent issues or forget your router's login credentials, you can perform a factory reset. Locate the reset button (usually a small pinhole) on the router, press and hold it for about 10 seconds using a paperclip until the power LED blinks. This will restore the router to its original factory settings, requiring re-configuration.

8. WARRANTY AND SUPPORT

Warranty Information: This product is sold as a used item and may show signs of wear. It has been tested and is fully functional. Please note that no warranty is provided with this used item.

For further assistance, technical support, or to find updated drivers and manuals, please visit the official D-Link support website or contact D-Link customer service.

Manufacturer: D-Link Systems, Inc.