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Belkin F5D7230-4

Belkin Wireless-G Router DSL/Cable Gateway (Model F5D7230-4) User Manual

Model: F5D7230-4

1. Introduction and Overview

The Belkin Wireless-G Router is designed to create a wireless network in your home or office, allowing multiple computers to share a broadband Internet connection and networked peripherals without the need for cables. This router utilizes 802.11g technology, offering wireless speeds up to 54 Mbps and backward compatibility with 802.11b devices. It provides approximately 400 feet of wireless coverage and includes an integrated 4-port 10/100Base-T Ethernet switch for wired connections.

Key features include:

- Easy setup with the Belkin Easy Install Wizard, automatically detecting Internet settings.
- Enhanced data and network security through 64- and 128-bit WEP encryption.
- Compatibility with both Macintosh and PC computers.

Figure 1: Belkin Wireless-G Router packaging highlighting key features like speed and range.

2. Setup Guide

2.1. Package Contents

Before you begin, ensure your package contains the following items:

- Belkin Wireless-G Router
- Power Supply Unit
- User Manual (this document)
- Quick Installation Guide
- RJ-45 Networking Cable
- Software CD (containing Easy Install Wizard and PDF manual)

2.2. Hardware Connection

Follow these steps to connect your router:

1. **Disconnect Power:** Unplug the power and Ethernet cable from your existing DSL/Cable modem.
2. **Connect Modem to Router:** Plug the Ethernet cable from your modem into the blue 'WAN' port on the back of the Belkin Wireless-G Router.
3. **Connect Computer to Router:** Use the included RJ-45 networking cable to connect your computer's Ethernet port to any of the yellow 'LAN' ports on the router.
4. **Power On Modem:** Plug the power back into your DSL/Cable modem and wait for it to fully reboot (indicator lights should stabilize).

5. **Power On Router:** Connect the power supply to the router and plug it into a power outlet. The router's indicator lights should illuminate.

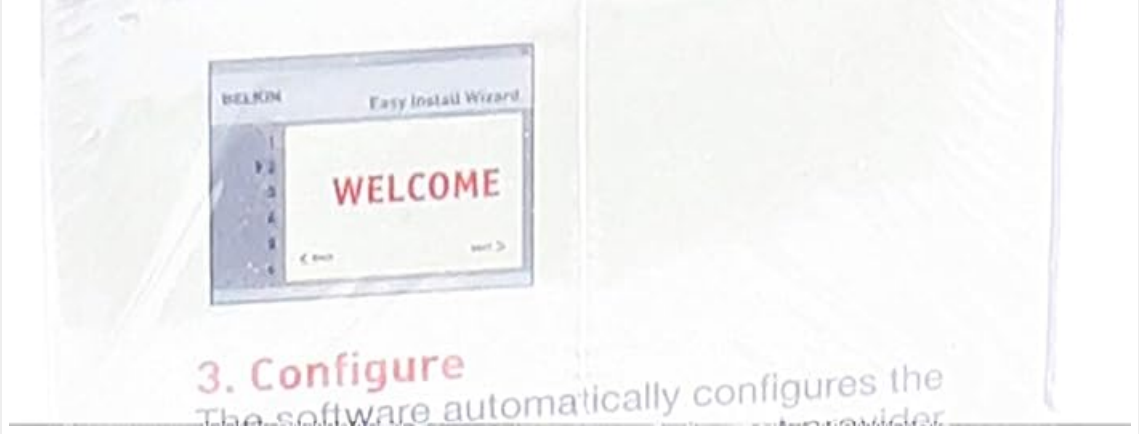

Figure 2: Visual guide for connecting the router to your modem and computer.

2.3. Software Installation

After connecting the hardware, proceed with the software setup:

1. **Insert Software CD:** Place the included software CD into your computer's CD-ROM drive.
2. **Launch Easy Install Wizard:** The Belkin Easy Install Wizard should launch automatically. If it does not, navigate to your CD-ROM drive in 'My Computer' or 'This PC' and run the 'setup.exe' file.
3. **Follow On-Screen Instructions:** The wizard will guide you through detecting your Internet settings and configuring the router for your network. This process typically takes less than 3 minutes.
4. **Complete Setup:** Once the wizard finishes, your router should be configured and ready for use.

3. Operating the Router

3.1. Basic Wireless Operation

The Belkin Wireless-G Router broadcasts a wireless signal using the 802.11g standard, operating at 2.4GHz. To connect wireless devices (such as laptops with Wireless-G Notebook Cards or desktops with Wireless-G Desktop Cards/USB Network Adapters), ensure they are within the router's 400-foot range and configured to connect to your network's SSID (network name).

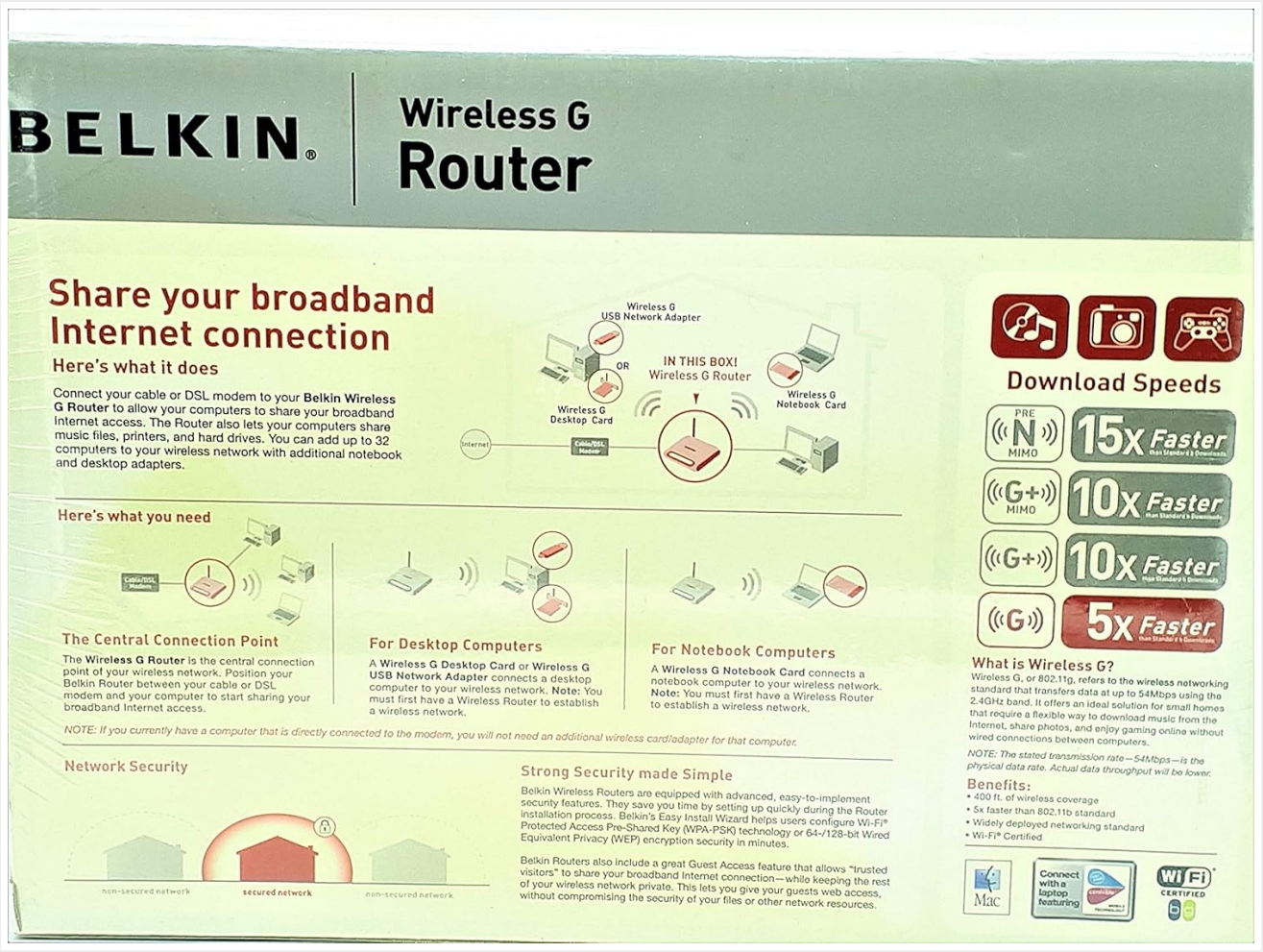

Figure 3: Network diagram illustrating how the router shares an internet connection with multiple devices.

3.2. Network Security

To protect your wireless network from unauthorized access, it is crucial to enable security features. The Belkin Wireless-G Router supports 64-bit and 128-bit WEP (Wired Equivalent Privacy) encryption. During the Easy Install Wizard, you will be prompted to set up your network's security. It is highly recommended to use the strongest encryption available.

For advanced security settings or to change your WEP key, access the router's web-based utility by typing its IP address (usually 192.168.2.1) into your web browser. Refer to the full user manual (available on the software CD or Belkin's website) for detailed instructions on configuring advanced security options.

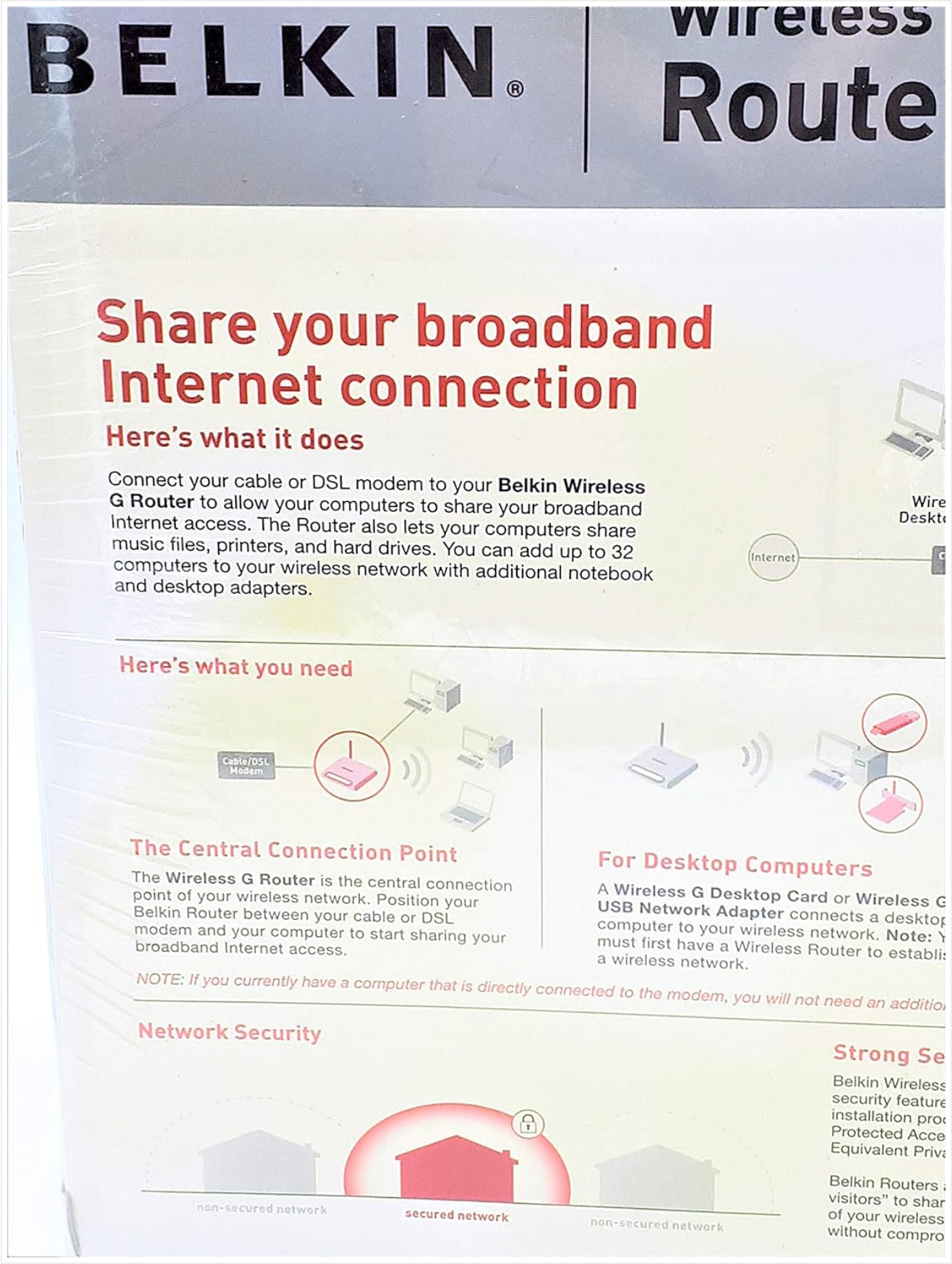

Figure 4: Illustration of network security, distinguishing between non-secured and secured networks.

4. Maintenance

To ensure optimal performance and longevity of your Belkin Wireless-G Router, consider the following maintenance tips:

- **Placement:** Position the router in a central location within your home or office, away from obstructions and devices

that may cause interference (e.g., cordless phones, microwaves).

- **Firmware Updates:** Periodically check the Belkin support website for firmware updates. Updating firmware can improve performance, add features, and enhance security.
- **Cleaning:** Keep the router clean and free of dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Restarting:** If you experience network issues, try restarting the router by unplugging its power adapter for 10 seconds and then plugging it back in.

5. Troubleshooting

If you encounter problems with your Belkin Wireless-G Router, try the following troubleshooting steps:

- **No Internet Connection:**
  - Verify all cables are securely connected to the correct ports (modem to router WAN, computer to router LAN).
  - Restart your modem, then your router, and then your computer in that order.
  - Check the indicator lights on the router and modem. Refer to the full user manual for light status meanings.
  - Ensure your Internet Service Provider (ISP) service is active.
- **Cannot Connect Wirelessly:**
  - Confirm your wireless device is within range of the router.
  - Check that your wireless adapter is enabled on your computer.
  - Verify you are connecting to the correct SSID (network name) and entering the correct WEP key.
  - Temporarily disable wireless security on the router to see if it resolves the connection issue (re-enable immediately after testing).
- **Slow Network Speeds:**
  - Ensure your router is placed optimally, away from interference sources.
  - Check for other devices on your network consuming bandwidth.
  - Consider updating your router's firmware.
- **Easy Install Wizard Issues:**
  - If the CD wizard does not work, you can often configure the router manually via its web interface (e.g., http://192.168.2.1). Consult the PDF manual on the CD or Belkin's support website for manual setup instructions.

6. Specifications

Feature	Specification
Model Name	F5D7230-4
Product Dimensions	11.5 x 8.25 x 3.25 inches
Item Weight	1.25 pounds (1.3 Pounds)
Wireless Communication Standard	802.11g (backward compatible with 802.11b)
Frequency Band Class	Single-Band (2.4 GHz)
Connectivity Technology	Wireless, Wired (4x 10/100Base-T Ethernet LAN ports)

Antenna Type	Internal
Special Feature	WPS (Wi-Fi Protected Setup)
Compatible Devices	Personal Computer, Printer

7. Warranty Information

Belkin provides a lifetime warranty for the Wireless-G Router. Please note that the warranty does not cover misuse of the product. For full details regarding warranty terms and conditions, refer to the documentation included with your product or visit the official Belkin website.

8. Support

For technical assistance or further inquiries, please contact Belkin customer support:

- **Phone Support:** 1-877-736-5771 (Free 24/7 Tech Support)
- **Online Support:** Visit the official Belkin support website for FAQs, drivers, firmware, and additional resources.

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