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D'link dap 1522 user manual

28 Jul D-Link Xtreme N™ Duo Wireless Bridge/Access Point is designed for users who want to create a wireless network or connect multiple wired devices to an existing wireless network. Xtreme N Duo is the latest addition to the award-winning Xtreme N product family. Duo means DAP-1522 works with next generation dual bands (2.4GHz or 5GHz)* 802.11n wireless devices as well as legacy 802.11g products. Bring your wired device into the Wi-Fi world with the Dap-1522 Xtreme N® Duo Wireless Bridge. You'll be Xtremely glad you did. These products use the current draft version of the 802.11n standard. Compatibility with other draft-n and 802.11n products is guaranteed by the Wi-Fi Alliance. However, some features are added in the specification revision later, and it is possible that they will not work correctly. In most cases, a firmware upgrade will solve any problems (consider if you feel confident doing such an update). Also, while the 802.11n is designed to be backward compatible with 802.11g, 802.11b and 802.11a, it has been noted that -n can interfere with the current operation of 802.11b and g products. Other features, see Price range: $74.99 – $102.24 User Reviews: chanman says: HD Movie :d an You Tube streaming into my TV work is excellent, which is really all that matters. Customer support, which you need to set it up, is probably the most knowledgeable I've worked with in recent years. Works with Apple Time Capsule.. Cons: Difficult to set up unless you happen to have a d-link router and use one-button settings. Call the help desk 24/7 and they'll walk you through the setup. Manual's weak. Also, the range is limited. Can't get in a drawer or a closet. Need to sit on top. Summary: For the price, it is a good product. Actual data streaming works very well, which in the end is important. Manuals are weak but customer service is strong. The range is limited, but enough if you don't mind putting the unit on the surface. bc0203 says: Pro: Easy, pushbutton settings, including 4-port hub.. Cons: The web interface can be a little more accessible.. Summary: I have a home theater system with multiple devices that require Internet access, some of which are not wireless. D-Link DAP-1522 allowed me to route everything through a single access point, with all devices set to wired mode and a router assigning DHCP addesses to each device. Tags: Access Point, Router D-Link, DAP-1522, Reviews, Wi-Fi

Product Overview Package Contents Product Overview •D-Link DAP-1522 Wireless N Dual Band Access Point and Ethernet Bridge •Power Adapter •ETHERNET CABLE CAT5 •Rubber Foot •CD-ROM with User Manual Note: Using a power supply with a different voltage than that included with DAP-1522 will cause damage and void the warranty for this product. •System Requirements •Computers with Windows®, Macintosh®, or Linux-based operating systems with Ethernet adapters installed •Internet Explorer Version 7.0, Mozilla or Firefox 3.0 and above (for configuration) D-Link DAP-1522 User Manual 4 Part 1 - Total Performance Product Overview Introduction Combines award-winning access point features and 802.11n Draft wireless technology to provide best wireless performance. TOTAL SECURITY A set of sleeping security features including WPA2 and MAC Address Control to protect your network from outside intruders. TOTAL COVERAGE Provides greater wireless signal levels even at longer distances for best-in-class Whole Home Coverage. ULTIMATE PERFORMANCE TheD-LinkXtremeN™DuoWirelessBridge(DAP-1522)isadraft802.11ncompliantdevicethatdeliversrealworldperformance is up to 650% faster than an 802.11g wireless connection (also faster than a 100Mbps wired Ethernet connection). Create a secure wireless network to share photos, files, music, videos, printers, and network storage throughout your home. Connect the Duo Xtreme N™ Wireless Bridge to your router and share your high-speed Internet access with everyone on the network. In addition, this Wireless Bridge includes a Quality of Service (QoS) engine that keeps digital phone calls (VoIP) and online games smooth and responsive, providing a better Internet experience. EXTENDED HOME COVERAGE Powered by Xtreme N™ Duo technology, this high-performance Wireless Bridge provides superior All-Home Coverage while reducing dead spots. The Duo ™ Xtreme Wireless Bridge is designed for greater home use and for users who demand higher performance networks. Add an Xtreme N™ duo notebook or desktop adapter and stay connected to your network from almost anywhere in your home. TOTAL NETWORK SECURITY The Duo Xtreme N™ Wireless Bridge supports all the latest wireless security features to prevent unauthorized access, be it from over a wireless network or from the Internet. Support for WPA and WEP standards ensures that you will be able to use the best encryption methods, regardless of your client's device. environmental factors, including network traffic volume, building and construction materials, and network overhead, lower actual data throughput rates. Environmental conditions will adversely affect the range of wireless signals. D-Link DAP-1522 User Manual 5 Part 1 - Product Overview Features •Faster Wireless Networks - DAP-1522 provides wireless connections up to 300Mbps* with other 802.11n wireless clients. This capability allows users to participate in real-time online activities, such as video streaming, online gaming, and real-time audio. The performance of this 802.11n wireless access point gives you wireless network freedom at speeds 650% faster than 802.11g. •Compatible with Devices 802.11a, 802.11b, and 802.11g - DAP-1522 is still fully compatible with the existing IEEE 802.11a/b/g standard, so it can connect with existing PCI, USB and Cardbus adapters. •AdvancedFirewallFeatures-Web-based user interface features advanced network management including Content Filtering, which allows filtering of content to be applied easily based on MAC Address. •WPS PBC- (Configure Wi-Fi Protected Settings Button) The Push Button Configuration is a key that can be pressed to add a device to an existing network or to create a new network. Virtual keys can be used on utilities when physical buttons are placed on the side of the device. This easy setup method allows you to form secure wireless links between DAP-1522 and other WPS enabled devices. PCs are no longer required to log in to a Web-based interface. •WPS PIN - (Wi-Fi Protected Settings Personal Identification Number) A PIN is a unique number that can be used to add an access point to an existing network or to create a new network. The default PIN can be printed at the bottom of the access point. For extra security, a new PIN can be generated. You can restore your default PIN at any time. Only an Administrator (admin) account can change or reset your PIN. Easy-to-use Settings Guide - Through the easy-to-use Web-based user interface, DAP-1522 lets you control what information is accessible to those on wireless networks, either from the Internet or from your company's servers. Configure your access point to your specific settings in minutes. D-Link DAP-1522 User Manual 6 Part 1 - Product Overview Hardware Overview Connections AP-Auto-Bridge Switch A three-way switch used to select ap, auto, or bridge modes. Reset Pressing the Reset button restores the access point to its original factory default settings. Lan Ports (1-4) Connects Ethernet devices such as computers, switches, game consoles, setup boxes, and hubs. Power Receptor Receptors for the supplied power adapter. D-Link DAP-1522 User Manual 7 Part 1 - Product Hardware Overview LED Bridge Flashing lights indicate that DAP-1522 is in Power BRIDGE MODE A LED light indicates the right connection to the power supply. WPS LED Solid lights indicate a successful WPS connection. Flashing lights indicate the device is trying to establish a connection. AP LED Flashing lights indicate that DAP-1522 is in AP mode. LAN LED Solid light indicates the connection to ethernet-supporting devices on ports 1-4. This LED flashes during data transmission. D-Link DAP-1522 User Manual 8 Part 1 - Installation Of This Section will guide you through the installation process. The placement of DAP-1522 is very important. Do not place DAP-1522 in enclosed areas such as cabinets, cabinets, or in attics or garages. Before You Start Please configure the wireless bridge with the computer that was last connected directly to your modem. Additionally, you can only use the Ethernet port on your modem. If you used a USB connection before using Wireless Bridge, you must turn off the modem, disconnect the USB cable and connect the Ethernet cable to the Internet port on the Wireless Bridge, and then turn the modem back on. In some cases, you may need to call your ISP to change the connection type (USB to Ethernet). If you have DSL and are connected via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoet, Broadjump, or Enternet 300 from your computer or you won't be able to connect to the Internet. D-Link DAP-1522 User Manual 9 Part 2 - Consideration of Wireless Installation The D-Link wireless access point lets you access your network using a wireless connection from anywhere within the range of your wireless network operation. But keep in mind that the number, thickness, and location of walls, ceilings, or other objects that wireless signals must pass through, can limit range. Typical ranges vary depending on the type of material and background RF sound (radio frequency) in your home or business. The key to maximizing wireless coverage is to follow these basic guidelines: 1.Keep the number of walls and ceilings between D-Link access points and other network devices to a minimum. Any wall or ceiling can reduce the range of your adapter from 3-90 feet (1-30 meters). Position your device so that the signal will run straight through the wall or ceiling (instead of at an angle) for better reception. 3.Building Materials make a difference. Solid metal doors or aluminum studs may have a negative effect on the range. Try to position the access point, wireless access point, and computer so that the signal drywall or open door. Materials and and such as glass, steel, metal, walls with insulation, water (fish tank), mirrors, file cabinets, bricks, and concrete will lower your wireless signal. 4.Keep your products (at least 3-6 feet or 1-2 meters) away from electrical devices or rf noise generating equipment. 5.If you use a 2.4GHz or X-10 wireless phone (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless device as possible. The base sends a signal even if the phone is not in use. D-Link DAP-1522 User Manual 10 Section 2 - Installation AP/Bridge/Auto Mode Depending on how you want to use DAP-1522 you will determine which mode you are using. This section will help you figure out which settings work with your setup. AP mode If you already have a wired or wireless router, and want to add MediaBand (5GHz wireless), to your network, you must move the switch on the rear panel of the DAP-1522 to the AP. Bridge Mode If you want to connect multiple wirelessly enabled ethernet devices such as game consoles, media players, or network-attached storage devices, you must move the switch on the dap-1522 rear panel of the Bridge. D-Link DAP-1522 User Manual 11 Section 2 - Automatic Installation Mode If the switch on the rear panel of DAP-1522 is set to Auto, the device will wait for 30 seconds, looking for the DHCP server from the ethernet port. If an IP address is assigned, it automatically shifts to AP mode. If the IP address is not assigned then the DHCP server, DAP-1522 automatically shifts to Bridge mode. Create a Full MediaBand Network (5GHz wireless) If you have two DAP-1522 devices and want to create a wireless network with full MediaBand technology, you must connect one Wireless Bridge to your router and move the switch on the rear panel to the AP. A second Wireless Bridge should be placed next to an Ethernet-supporting device and you must move the switch on the rear panel to the Bridge. D-Link DAP-1522 User Manual 12 Part 3 - Configuration Configuration for AP Mode This section will show you how to configure your new D-Link wireless access point using a web-based configuration utility. Web-based Configuration Utility To access the configuration utility, open a web browser such as Internet Explorer and enter dlinkap or 192.168.0.50 in the address field. Select Adminfrom the drop-down menu and enter your password. Leave passwords blank by default. If you get a Page Cannot Be Displayed error, please see the Troubleshooting section for help. D-Link DAP-1522 User Manual 13 Part 3 - Configuration Setup Wizard Click Wireless Setup Wizard to quickly configure your access point. To set up your wireless network, click Add Wireless Device WPS and skip to page 22. If you want to enter settings without running the wizard, click Manual Network Setup and skip to page 24. D-Link DAP-1522 User Manual 14 Part 3 - The Configuration Wizard Wireless Setup Wizard This wizard is designed to assist you in connecting your wireless device to your access point. This will walk you through step-by-step instructions on how to connect your wireless device. Enter an AP Device Name and click Next to continue. It is recommended to change the Device Name if there is more than one D-Link device in the subnet. If you want to change your admin account password, enter the new password and click Next. D-Link DAP-1522 User Manual 15 Part 3 – Configure Auto Selects as configuration method only if your wireless device supports Wi-Fi Protected Setup. Skip to page 17 for Manual configuration. Click Next to continue. Click Save to save your network settings. D-Link DAP-1522 User Manual 16 Part 3 - Configuration The following screen opens to indicate that you have successfully saved your new settings. Select Manual as the configuration method to manually set up your network. Click Next to continue. D-Link DAP-1522 User Manual 17 Part 3 - Configuration Enter the network name and select Automatically assign a network key. To manually assign a network key, skip to page 19. Click Next to continue. If you select WPA-PSK encryption, the following screen will show your Network Key to log in to your wireless client. Click Save to complete the Setup Wizard. D-Link DAP-1522 User Manual 18 Part 3 - Configuration If you select WEP encryption, the following screen will show your Network Key to log in on your wireless client. Click Save to complete the Setup Wizard. Select Manually assign a network key to create your own key. Click Next to continue. D-Link DAP-1522 User Manual 19 Part 3 - Configure For WPA encryption, enter a Network Key between 8 and 63 characters or enter exactly 64 characters using 0-9 and A-F. Click Next to continue. If you select WPA encryption, the following screen will show your network key to log in to your wireless client. Click Save to complete the Setup Wizard. D-Link DAP-1522 User Manual 20 Section 3 - Configuration For WEP encryption, enter a Network Key with a length of exactly 5 or 13 characters or precisely 10 or 26 characters using 0-9 and A-F. Click Next to continue. If you select WEP encryption, the following screen will show your network key to log in to your wireless client. Click Save to complete the Setup Wizard. D-Link DAP-1522 User Manual 21 Part 3 - Add Device Configuration With WPS This wizard is designed to assist you in setting up your wireless network. This will walk you through step-by-step instructions on how to set up your wireless network and how to make it secure. Select the PIN to use the PIN number of your wireless device to your access point. For PBC configuration, skip to page 23. Click Connect to continue. Start WPS on the wireless device you added to your wireless network to complete the setup. D-Link DAP-1522 User Manual 22 Part 3 - Configure Select PBC to use The Push Button Configuration to connect to your network. Click Connect to continue. Press the press-down button on a wireless device that you added to your network to complete setup. D-Link DAP-1522 User Manual 23 Part 3 - Manual Configuration Wireless Settings Wireless Settings Wireless mode is currently set to Access Point, mode: will create a wireless infrastructure network. Enable Check boxes to enable wireless functionality. If Wireless: You don't want to use wireless, clear the check box to turn off all wireless functions. Wireless When you browse for an available wireless Network, this is the name that will appear in the Name: list (unless Visibility Status is set to Invisible, see below). The name is also referred to as SSID. For security purposes, it is highly recommended to change from a preconfigured network name. 802.11 Band: Band frequency operation. Choose 2.4GHz for visibility to older devices and for longer range. Choose 5GHz for the least interference. 802.11 mode: If you choose the 2.4GHz band, then choose one of the following: Mixed 802.11n, 802.11g and 802.11b - Choose if you are using a mix of 802.11n, 11g, and 11b wireless clients. Only 802.11g - Choose if you only use the 802.11g wireless client. Only 802.11n – Choose if you only use the 802.11n wireless client. Mix 802.11g and 802.11b - Choose if you are using a mix of 802.11g and 11b wireless clients. Mix 802.11n and 802.11g - Choose if you are using a mix of 802.11n and 11g wireless clients. If you choose a 5GHz band, then choose 802.11a Only, 802.11n Only, or Mixed 802.11n and 802.11a. D-Link DAP-1522 User Manual 24 Part 3 - Configure Enable Automatic Channel Scanning: Wireless Channels: Transmission Rate: Channel Width: Visibility Status: Security Mode: Current PIN: Generate New PIN: Reset PIN to Default: Auto Channel Scan Settings can be selected to allow DAP-1522 to select the channel with the least number of interruptions. Indicates the channel settings for DAP-1522. Channels can be changed to match channel settings for existing wireless networks or to customize wireless networks. If you turn on Automatic Channel Scanning, this option will be grayed out. Choose the transmission rate. It is highly recommended to choose Best for best performance. Choose Channel Width: Automatic 20/40 - Choose if you are using 802.11n and non-802.11n wireless devices. 20MHz – Choose if you are not using 802.11n 802.11n wireless Select Invisible if you do not want your wireless network SSID to be broadcast by DAP-1522. If Invisible is selected, the DAP-1522 SSID will not be viewed by the Site Survey utility so your wireless client should

know your DAP-1522 SSID to connect to it. See page 65 for more information on wireless security. Enable Wi-Fi Protected Setup. Locking wireless security settings prevents settings from being changed by new external users using their PIN. Devices can still be added to wireless networks using Wi-Fi Protected Setup. It is still possible to change wireless network settings with Manual Wireless Network Setup, the Wireless Network Setup Wizard, or an existing external WLAN Manager user. Shows the current access point PIN value. Creates a random number that is a valid PIN. This becomes an access point PIN. You can then copy this PIN to the user interface. Restore the access point's default PIN. Resets Wi-Fi Protected Status to Unconfigured. The Vista WPS icon will only be displayed when the Wi-Fi Protected Status is Not Configured. D-Link DAP-1522 User Manual 25 Part 3 – DHCP Network Configuration Settings This section will allow you to change the local network settings of the access point and to configure DHCP settings. LAN connection Use the drop-down menu to select Dynamic IP Type: (DHCP) to automatically get the IP address on the LAN/private network. Device Name: Enter an AP Device Name. It is recommended to change the Device Name if there is more than one D-Link device in the subnet. D-Link DAP-1522 User Manual 26 Part 3 – Configure Static IP Select Static IP Address if all Internet port IP information is provided to you by your ISP. You must enter the IP address, subnet mask, gateway address, and DNS address assigned to you by your ISP. Each IP address entered in the field must be in the corresponding IP form, i.e. four octets separated by dots (x.x.x.x). The Access Point will not accept IP addresses if not in this format. LAN Connection Use the drop-down menu to choose Static IP if your Type: THE ISP gives you the IP address, subnet mask, gateway, and DNS server address. Select Dynamic IP (DHCP) to automatically assign an IP address to a computer on a LAN/private network. IP Access Point Enter the IP address of the access point. Default address: The IP address is 192.168.0.50. If you change the IP address, after clicking Apply, you will need to enter a new IP address in your browser to return to the configuration utility. Subnet Mask: Enter the Subnet Mask assigned by your ISP. Default Gateway: Enter the Gateway assigned by your ISP. Device Name: Enter an AP Device Name. It is recommended to change the Device Name if there is more than one D-Link D-Link Subnet. D-Link DAP-1522 User Manual 27 Part 3 - Advanced MAC Address Filter Configuration The MAC address filter section can be used to filter network access by machine based on the unique MAC address of their network adapter. This is most useful to prevent unauthorized wireless devices from connecting to your network. A MAC address is a unique ID assigned by the manufacturer of the network adapter. Configure MAC On Turn Off MAC Filtering is selected, Filtering: MAC addresses are not used to control network access. When Turn on MAC Filtering and IZINkan the computers listed for accessing the network are selected, only computers with MAC addresses listed in the MAC Address List are granted network access. When Enable MAC Filtering and REJECT computerslistlisttoaccessthenetwork is selected, any computer with a MAC address listed in the MAC Address List is denied access to the network. Add MAC This parameter lets you manually add MAC Filtering Rules: filtering rules. Click the Add button to add a new MAC filtering rule to the MAC Filtering Rules list at the bottom of this screen. D-Link DAP-1522 User Manual 28 Part 3 - Advanced Wireless Transmit Power Configuration: Adjust antenna transmission power. Beacon Period: A beacon is a package sent by an Access Point to synchronize a wireless network. Specify a value. 100 is the default and recommended setting. Interval DTIM: (DeliveryTrafficIndicationMessage)1isthedefault settings. DTIM is a countdown that informs clients from the next window to listen to broadcast and multicast messages. RTS Threshold: This value must remain at the default setting of 2346. If inconsistent data flow is a problem, only minor modifications should be made. Fragmentation Threshold fragmentation, specified Threshold: in bytes, determines whether the package will be fragmented. Packages exceeding byte setting 2346 will be fragmented prior to transmission. 2346 is the default setting. WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and sound applications for your wireless clients. Short GI: Check this box to reduce guard interval time thus increasing data capacity. However, it is less reliable and can create higher data loss. IGMP Snooping: It allows IGMP reconnaissance for wireless connections. We recommend enabling this if you frequently use multicast services such as video conferencing and audio/video streaming. D-Link DAP-1522 User Manual 29 Part 3 - WLAN Partition WLAN Partition Configuration allows you to segment your Wireless network by managing access to internal stations and Ethernet access to your WLAN. Internal Use the drop-down menu to allow or Deny internal station connections Connection: Ethernet Use the drop-down menu to Allow or Deny to WLAN Ethernet to Wireless LAN access. Access: D-Link D-Link User Guide 30 30

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