# D-Lifestyle

Technology solutions & lifestyle magazine  FREE

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**Effortless** PC security

**Wireless security** how-to
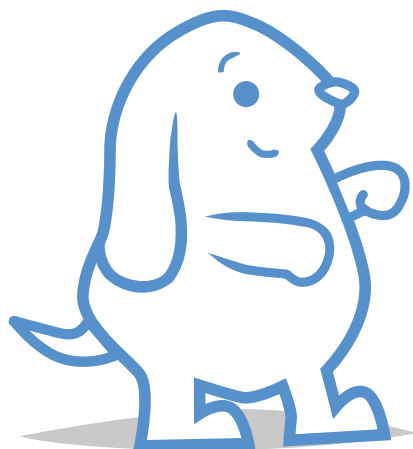
**LATEST** Technology Guide

# fastest
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**Building Networks for People**
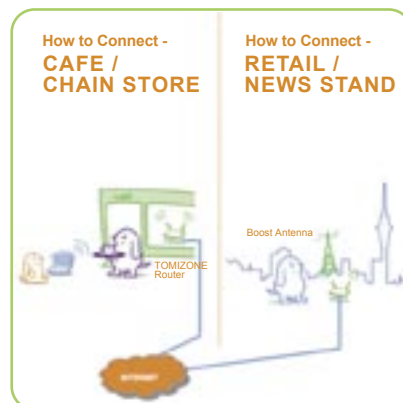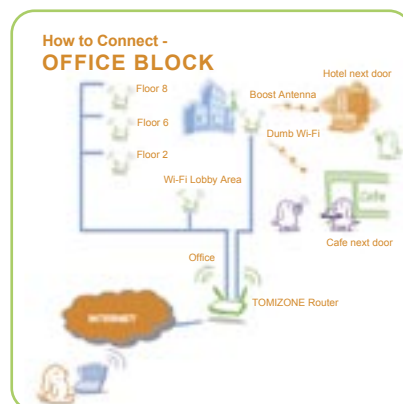
# HOW WI-FI MAKES YOU MONEY

## Share your Wi-Fi securely and make money.

Tomizone enables any broadband connection anywhere, to be a revenue earning Wi-Fi or wireless hotspot in an international network for global customers.

By turning on the Tomizone hotspot function in D-Link Wireless Router/Access Point*, you instantly create a revenue earning hotspot which automatically collects cash from users and gives you half the money back to spend on whatever you like!

**It's easy, register your interest now, email tomi@tomizone.com**

### How to Connect - APARTMENT

Hotel next door
Boost Antenna
Dumb Wi-Fi
Cafe next door
Apartment
INTERNET
TOMIZONE Router

### How to Connect - OFFICE BLOCK

Floor 8
Floor 6
Floor 2
Wi-Fi Lobby Area
Hotel next door
Boost Antenna
Dumb Wi-Fi
Cafe next door
Office
INTERNET
TOMIZONE Router

### How to Connect - CAFE / CHAIN STORE

### How to Connect - RETAIL / NEWS STAND

TOMIZONE Router
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INTERNET

**More at:
www.tomizone.com/toolkit**

D-Link
Building Networks for People

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# D-Lifestyle
## Technology solutions & lifestyle magazine — Issue 7

D-Link is a worldwide leader and award-winning designer, developer and manufacturer of network-ing, broadband, Wireless, digital electronics, and voice and data communications solutions for the digital home, Small Office/Home Office (SOHO), Small to Medium Business (SMB), and Workgroup to Enterprise environments.

With global manufacturing International Standards Organization ISO 9001, 9002, ISO 14001 Certifications and numerous National Technical Excellence awards earned for R&D and manufac-turing, D-Link delivers product excellence, quality, reliability, compatibility, high-performance within standards, and easy installation software, educa-tional materials, and manuals.

D-Link is a dominant market participant and price/performance leader in the network and communi-cations market. D-Link has been profitable every year since its inception in 1986, and continues to grow at a rate that will allow the Company to experience continued prosperity. D-Link sets the standards for market affordability, while focusing on Building Networks for People.

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### Features

## FROM THE EDITOR

The year of living digitally

What an exciting year 2007 has already turned out to be! New technologies in wireless, networking, Internet phone calling, digi-tal media and operating systems have arrived, or are building on strong gains made in 2006. The faster wireless standard in draft 802.11n equipment will become mainstream this year. Cordless phones that offer Internet phone calling are now standard. This year we'll see more GSM mobile phones that also let you make VoIP Internet calls, with D-Link planning to launch its model later this year. Devices to stream digital media from PCs to televisions have been with us for years, with many more people foregoing the much more expensive and uncertain choices offered by Blu-ray and HD DVD. And new advances in gadgets are seeing better digital cameras, phones, mp3 players and more –with the Apple iPhone a case in point. D-Link is an enabler in the digital world, provid-ing much of the infrastructure that lets you access your digital life from almost any device - from ultra high-speed wired connections and wireless technologies that have reached new levels of speed, range and reliability. There's a lot of strength in D-Link's current line-up of technology, and plenty more still to come this year. 2007 really is the year of living digitally – are you living it?

Happy computing,

Alex Zaharov-Reutt

# News

▶Super network storage     ▶Wi-Fi VoIP phone     ▶Xtreme wireless speed     ▶Windows Vista launches!

## D-Link wins Innovation award

The US Consumer Electronics Association, which holds the annual Consumer Electronics Show (CES) in Las Vegas, has awarded its prestigious CES Innovations 2007 Design and Engineering Award to two D-Link products – the V-CLICK Dual-Mode GSM/Wi-Fi Phone, due in Australia later in 2007, and the DNS-323 2-Bay Network Storage Enclosure, available now.

The V-CLICK dual-mode phone, honoured in the Wireless Communications category, is an advanced, palm-sized, lightweight solution that allows you to switch easily between tri-band (900/1800/1900MHz) GSM cellular and 802.11 Wi-Fi (2.4GHz) networks.

With the V-CLICK, you can use an existing SIM cards to automatically gain GSM access while maintaining key data, such as phone numbers and address books. With the simple press of a button you can switch to a Wi-Fi connection for access to websites or an Internet phone service, and enjoy reduced communication costs and faster transfer speeds.

The D-Link 2-Bay Network Storage Enclosure, honoured in the Home Networking category, enhances multimedia file sharing, secures important data and streams content to video players, while offering robust backup and recovery.

It features a full complement of next-generation technology – a fast Gigabit Ethernet connection, support for two internal 3.5" SATA hard drives (which are not included), built-in FTP server, built-in UPnP audio visual media server for streaming digital content to compatible media players, and RAID 1 technology for backing up and mirroring important files. It is available now!

## PowerLine – a new way to network

Coming later in 2007 is D-Link's new DHP-301 PowerLine HD Network Kit. Operating at speeds of up to 200Mbps, it lets you extend your home network using existing electrical wiring, and enjoy high-definition media streaming, online gaming and other next-generation digital home applications.

It's also a great complement to a wireless home network, giving you access to the network in rooms where a wireless signal doesn't reach. By simply attaching one adapter from your router into your existing electrical system, you can turn every power outlet into a possible network connection. This way, you can extend your network's range without drilling holes into walls.

This device is also ideal for homes or small offices where concrete walls, successive floors in multi-storey buildings, or other impediments could inhibit a wireless signal.  You can connect multiple devices in the farthest corners of your home by attaching a switch or wireless access point to a D-Link PowerLine HD Ethernet Adapter.

## Start the wow up now with Windows Vista and D-Link

The Windows Vista operating system unleashes the multimedia power of today's modern PCs. D-Link makes it possible for consumers to harness that power and share downloaded digital entertainment, dominate online gaming, save money with Internet phone calls (VoIP) and more. The first draft 802.11n compliant router to be 'Certified for Windows Vista', the D-Link DIR-655 Xtreme N Gigabit Router with 'Windows Connect Now' support makes it easy to create a network and connect additional devices. With the industry's first wireless prioritisation technology and D-Link's award-winning intelligent QoS engine, the benefits of jitter-free Internet phone calls (VoIP), high-definition video streaming, and web gaming can be yours. Windows Vista puts a high value on Internet security and so does D-Link. Support for WEP, WPA, and WPA2 security standards help ensure that you will be able to use the best possible encryption—regardless of your other wireless devices. If you're looking to unleash the power of Windows Vista, D-Link is at the forefront to make it easy for you!

# Case study

With the D-Link-powered wireless hot spot in place, Eagle Point Marina in Texas, USA, and its local business owners can benefit from offering wireless hot spots to lake visitors.

D-Link's technology is used around the world to enable network infrastructure, both wired and wireless, that powers the digital lifestyle. Here's one example of how D-Link technology is helping to build networks for people. For more information this case study, along with many others, visit D-Link's US web site at *www.dlink.com/business/casestudies.asp*.

### The Challenge:
Floating Access is a Texas-based solution provider specialising in implementing and servicing Wi-Fi hot spots in marina and resort locations throughout the US. The wireless access means lake visitors can stay connected and stay longer – bringing incremental revenue to marina owners and local businesses.

Floating Access's most recent project, a large-scale wireless networking rollout at Eagle Point Marina at Lake Lewisville, Texas, proved the typical marina challenge. With over 700 boat slips, 450 over water, and multiple boathouses and local businesses, the marina required a special configuration of wireless access points and antennae to deliver seamless wireless coverage through the heavy metal bars of the boathouses, across the wide expanse of water and to each business.

Aside from providing public access to lake visitors on boats in the slips, the Eagle Point Marina Office, Slalom Shop Yacht Sales and Sneaky Pete's Restaurant each needed to keep Internet access secure from one another.

### The Solution:
Floating Access found the ideal product solution in combining D-Link's Enterprise-level 802.11b AirPremier Access Points with several different high-range D-Link antennae. The AirPremier Outdoor Access Points are contained in industrial-grade housing that can

withstand Lake Lewisville's most violent weather.

Both the Outdoor and standard AirPremier access points provide high-level power and security. The D-Link antennae extend the wireless network coverage area and each antenna is specially designed to redirect the wireless access in a certain direction or omni-directionally, ensuring the maximum coverage area - meaning that customers would be able to get wireless access to the Internet wherever they are in the Marina.

Floating Access came up with a specific engineering design that uses the D-Link antennae to point the wireless signal through the boat slips and directly into the docked boats – a challenge not easy to overcome with all of the metal and water involved.

### Benefits:
With the D-Link-powered wireless hot spots in place, now Eagle Point Marina and its local business owners can benefit from offering wireless hot spots to lake visitors, receiving incremental income from Floating Access's daily and monthly 802.11b Wi-Fi service. Additionally, since 60% of the lake's visitors are busy executives and business owners, offering Internet access to lake visitors allows Eagle Point Marina's visitors to stay connected, allowing them to stay longer at the lake and enjoy all the marina has to offer.

"Each marina has a different configuration and requirement to ensure the wireless signal is available to all visitors, whether on a boat or in a restaurant," said Scott Orr, CEO of Floating Access. "D-Link's product offering combines power, flexibility and price, helping us to create the ideal solution to fit the Eagle Point Marina, while staying within our budget.

"We look to D-Link as an excellent product providing partner to help us create the best fit solution for each of our marina projects."

# Stay secure with SecureSpot

VIRUS PROTECTION          SPYWARE PROTECTION          PARENTAL CONTROL

In today's world, security is paramount – in both the offline and online worlds. Just as you wouldn't leave your car or your house unlocked and the doors wide open, neither should you venture online without suitable protection. Without the right security, you're vulnerable to viruses, spyware, spam, pop-ups, identity theft and other Net nasties. These threats are real and can cause you to lose valuable personal and business data, and cost a lot of time and money to repair or replace.

But sometimes it seems like protecting yourself online requires a PhD in software installation, maintenance and computer security – along with a big bank balance to pay for updates, especially if you have a network. Isn't there an easier and much cheaper way to stay secure?

Thankfully, there is – the D-Link SecureSpot DSD-150 Internet Security Device (ISD). This award-winning, all-in-one device is a marvel of modern technology – a complete Internet security solution that gives you automatic around-the-clock virus, spyware and identity theft protection, as well as a firewall, pop-up blocker, spam blocker and parental control – all in a tiny, palm-sized box.

## Hassle-free management and monitoring
SecureSpot is designed for non-technically savvy people, thanks to an easy-to-use web-based control panel, so anyone can set it up in minutes.

Using a simple web-based control centre, you can configure every aspect of how SecureSpot protects your home network: from the level of parental control to the aggressiveness of the firewall. Of course, those of us who are less technical can use the default settings and still receive full protection.

Because it has been expressly designed to be truly simple, SecureSpot implements everything for you, eliminating the time and hassle it takes to update, purchase and install stand-alone security products. How good is that!

## Three layers of protection for true peace of mind
SecureSpot is designed to provide three layers of protection. The Web Service Layer manages your home network security and

ensures you receive automatic real-time updates of antivirus, spam, spyware, reporting and content filtering databases.

The SecureSpot Layer provides network perimeter protection through firewall, content filtering, virus filtering, application control, identity theft and reporting.

The Individual Computer Layer protects by applying antivirus and spyware detection and removal, pop-up control, and application control.

In plain English, this simply means that SecureSpot offers robust security to ensure that you and your computer network are impervious to the wide range of attacks that can be launched over the Internet.

## Easy to install and use for PCs or Macs
SecureSpot installs a single software program to interact with the physical SecureSpot device, instead of running several different programs on each protected computer. So unlike other software-only-based solutions, SecureSpot's software will not overload system resources to slow down your computer.

SecureSpot comes with licenses to protect up to four computers, be they Windows, Mac or a combination of both. If you have more than four computers, you can purchase additional user licenses online.

**Let's look at SecureSpot's functions in more detail:**

### Content Filters
Want to make sure that your children can't access unsavoury and inappropriate websites? SecureSpot's fast, reliable, up-to-date Content Filtering database is the answer. In addition, the Application Control feature allows you to define software usage, like instant messaging, so you know the kids are doing their homework instead of chatting to friends. It can even control what applications are downloaded to your computers.

### Pop-up Blocker
Sick of annoying pop-ups that slow down your computer and litter your desktop? Block them all while still allowing approved pop-ups

IDENTITY THEFT PROTECTION

▶ SecureSpot DSD-150

to come through, such as those for your Internet banking. You can customise this feature by adding to the pop-up control database.

### Virus Protection

Automatically protect your computer, files, email, downloads and overall network from viruses, malicious Internet worms and back-door Trojans whenever you go online. SecureSpot automatically updates, so you'll always be protected from the latest virus threats.

### Spam Blocker

Unwanted junk email is the bane of our digital lives. Stop it filling up your in-box and get anti-phishing protection at the same time, so your Internet banking details won't end up in the hands of online thieves. Easily plug this protection directly into your Microsoft Outlook or other email applications and across all email accounts without changing addresses, forwarding mail or giving out passwords.

### Spyware Protection

Spyware, adware and malware are a class of software program that surreptitiously installs itself onto your computer, monitoring your browsing habits and computer system specifications and reporting your private details and online activities to outside entities on the Internet. Not only is this an invasion of your privacy, but it can present new security threats. SecureSpot automatically protects your computer from all forms of malware and keeps itself up-to-date without any user intervention.

### Identity Protection

Worried about your personal information being used by identity thieves? SecureSpot protects your personal identification and financial information from malicious applications looking to expose names, phone numbers, credit card numbers, bank account information and other critical data.

### Firewall Protection

While Windows XP and Macs come with built-in firewalls, SecureSpot's firewall is a more advanced way to protect your infor-

mation and stop application intrusions and hackers accessing your network. Get additional security using the Phishing Protection feature that blocks and alerts you about emails attempting to get your personal information.

### Reporting

Keep track of your family's computer and Internet usage through a detailed report that breaks down how long each user has spent on the machine. Information is supplied in minutes, hours and days, giving you precise detail.

### Complete security made easy

You get everything you need, including parental controls to decide what websites your children can visit, and which programs they are allowed to use, should you wish to use this feature. The pop-up blocker stops annoying pop-ups from getting in the way. Virus protection keeps you safe from viruses, worms and Trojan horses. The spam blocker stops almost all spam from landing in your inbox. Essential spyware protection gives spyware and malware the cold shoulder. Identity protection makes online life safer, while the improved firewall does a much better job than software only solutions, and the reporting tool lets you keep track of computer usage in your home or office.

So, why deal with complicated software programs that need to be loaded onto each computer on your network? Don't let them slow your computer down or subject you to a range of expensive updates for each PC! Hardware-based computer security is the safest and most robust way to keep your computers automatically protected at all times.

D-Link's SecureSpot won the CNET Best of CES 2006 award for the best security product at the annual Consumer Electronics Show in Las Vegas, highlighting the esteem in which SecureSpot is held as an effective and reliable security solution. Now that this outstanding device is available in Australia and New Zealand, what are you waiting for? It's the best security product for homes and small businesses available. See it in stores, or take a look at D-Link's new Flash movie *www.dlink.com.au/SecureSpot* to see it in action today!

D-Lifestyle

# Feel the need
# for wireless speed

## Looking for the speediest wireless link around?
## D-Link's DIR-655 Xtreme N is the answer!

Works with Windows Vista™

The new DIR-655 Xtreme N™ Gigabit Router is D-Link's fastest ever wireless router, offering superior performance over competing "Draft N" routers at speeds up to 14x times faster and up to 6x times further in range than 802.11g (Wireless G) solutions, making it ideal not only for web browsing and connecting computers to your network, but also for the latest games consoles and streaming media players that connect your computer to your TV screen.

So what is the secret sauce inside the Xtreme N? It's the new Draft N standard, the successor to 802.11g, which in itself superseded 802.11b and 802.11a. Although final ratification of the standard isn't due until 2008, networking companies have released products based on Draft N, allowing consumers to take advantage of the faster speeds and greater range that Draft N wireless products offer.

What does it mean for your home or office? It means greater coverage than ever, filling in "dead spots" thanks to three advanced antennae combined with the power of Xtreme N technology, while staying compatible with existing 802.11b and 802.11g wireless devices.

It also includes a 4-port 10/100/1000 megabit (1 gigabit) switch that connects gigabit wired devices for lag-free network gaming and faster file transfers. So if your external network hard drive or other wired devices can connect at 1 gigabit speeds (1000 megabits), your wired network can now take advantage of this to transfer files over a wired connection at faster speeds than ever before.

Naturally, the features don't stop there – this is D-Link's flagship wireless router after all. Also included is D-Link's new Intelligent QoS technology. QoS stands for Quality of Service, which ensures that certain types of data, such as gaming or voice traffic, are given priority over web browsing or emails, for example.

But D-Link's new QoS technology goes a step further than competing routers, by separating wired and wireless traffic into multiple data streams. These streams are then analysed and categorised by sensitivity to delay, so applications like VoIP, video streaming and online gaming are given priority over web browsing. This enables multiple applications to stream smoothly to your TV or PC.

As you'd expect, security is also top-notch. The latest wireless security features help prevent unauthorised access, from over a wireless network or the Internet. Included is support for WEP, WPA, and WPA2 standards to ensure that you'll be able to use the best possible encryption regardless of your client devices. In addition, this Xtreme N router utilizes Dual Active Firewalls (SPI and NAT) to prevent attacks from across the Internet.

Setting up the DIR-655 Xtreme N router is easy thanks to D-Link's new Quick Router Setup Wizard, and this router even plays nicely with others as it supports the "Good Neighbour Policy", so it doesn't interfere with other wireless networks, be they in your own home, or in the homes of your neighbours. It even works flawlessly with Microsoft's new Windows Vista operating system.

If you feel the need for Xtreme N speed, the DIR-655 delivers the best-in-class performance, network security, and coverage for your wireless network - and it's coming soon to a store near you.

# The ultimate cordless VoIP phone

Still thinking about saving money by using Voice over Internet Protocol (VoIP)? Today's technology has improved so much you'll get clear cordless calls and slash your phone bills – for good!

D-Link introduced a new innovation in cordless phone technology late last year – the DPH-C160S. Instead of being a cordless Internet (VoIP, or 'voice over Internet Protocol') phone that had to be connected to your PC through a USB cable, as is the case with most competing cordless Internet phones on the market (which can be limiting, especially if you choose to connect it to a laptop or notebook computer), D-Link's cordless phone connects directly into a spare Ethernet port on your broadband router, meaning it doesn't need to be connected to your PC at all.

**Ultra flexible two-in-one cordless phone**

It also lets you connect your existing telephone line, so on the one phone, you can make and receive regular phone calls and Internet phone calls at the same time, even allowing you to join a regular landline phone call and an Internet call in a three-way conference at the press of a button! That means it's a DECT cordless phone and Internet VoIP cordless phone in one, delivering the ultimate cordless calling experience for your home or office.

**Slash your phone bills**

To get access to the much cheaper call rates and plans of Internet phone calling, you will need to sign up to an Internet VoIP phone service, such as that offered by Engin and Gotalk, although the DPH-C160S is compatible with most VoIP phone plans in Australia and New Zealand, giving you the freedom to choose the best deal available. You will also need a high-speed broadband Internet connection to ensure quality voice calls, with at least a 512kbps connection recommended. It's also important to note here that D-Link is not a telephone service provider or a VoIP phone service provider. You will also be able to make calls to emergency services (000 in Australia 111 in New Zealand), with more information on emergency calling available from the VoIP phone provider you choose for Internet VoIP service.

**Essential Modern Features**

As you'd expect, the DPH-C160S has all the features you'd expect to find on any modern day DECT cordless phone. It has speed dial, call forwarding, call waiting (which even works between Internet calls and regular phone calls), 3-way conferencing capabilities, speakerphone capability, last number redial, mute and hold functions, an LCD screen to display numbers dialled and other useful information and echo cancellation for enhanced voice quality. If you misplace the handset, there's also a nifty 'handset locator' feature that will cause the phone to ring, allowing you to easily find it under the couch cushions or wherever it ends up being hidden.

The DPH-C160S will, as you'd expect, automatically detect incoming VoIP calls and regular calls, and will ring accordingly so you know which line is calling. If there is any loss or service interruption to your Internet connection, the phone will automatically switch to regular landline phone mode so you can still make calls on your regular phone line until your Internet connection is restored.

**Internet phone calls that sound great**

It also features what's known as "packet delay compensation" and "lost packet recovery", which in plain English means that you can expect the voice quality from the DPH-C160S to be similar to traditional phone calls.

**See D-Link's new 'Flash movie' today**

To see D-Link's new Adobe Flash driven mini website on how the DPH-C160S works, visit *www.dlink.com.au/DPH-C160S*, or see it in stores, where the DPH-C160S is now available. If you haven't tried Internet VoIP calls yet, now is the time to try them out for yourself – and make big savings on your phone calling costs at the same time!

# Security and your wireless network

If you have new or existing Wi-Fi equipment but have not yet activated the crucially important security settings, this guide will show you how

In today's modern connected world, security is more important than ever. If you want to access the Internet, a good security package – in software form, or innovative new hardware such as D-Link's SecureSpot (see page 6) – is essential for keeping hackers, viruses, malware/spyware/crimeware, Trojan horses and other net nasties out of your system. After all, security has long been a concern in the offline world too, as our daily use of locks and keys readily demonstrates.

All of this makes turning on and using the security features of your wireless network an obvious decision, yet many choose not to activate them, either because they don't know how or simply don't think it's important. But crucially important it is – after all, would you leave the front door of your house unlocked when you leave, or your car unlocked with the keys in the ignition, and hope no-one will notice?

The good news is that turning on the security features of your wireless network is simple, quick and painless. Once turned on, your "neighbours" can no longer connect to the Internet using your wireless network and download large files, such as movies, chewing up your precious monthly download allowance. Malicious people can no longer hack into other computers, send spam or do anything which may leave you susceptible to future criminal investigation if the trail stops at your home or office. If you work in an office, other businesses likewise cannot use (or steal) your Internet connection. Hackers and even competitors who want to steal data will be denied access, for your security defenses are up and active. There are a number of ways to secure your wireless network, with the three most common being WEP (Wired Equivalent Privacy), WPA-PSK (Wi-Fi Protected Access – Pre Shared Key), also known as WPA Personal, and WPA2, also known as WPA2 Personal, which is the latest, even more secure wireless security standard.

When setting up your wireless network security, you may notice something called WPA Enterprise and WPA2 Enterprise. This is a version of WPA security generally used in medium to large businesses and uses additional security infrastructure, so unless you fit into that category, don't use the 'Enterprise' versions.

While the original WEP wireless security system is available in all Wi-Fi equipment, it is now the oldest security standard and is much easier to compromise thanks to the efforts of hackers trying to find a way to bypass it. WPA-PSK and, in the latest equipment, WPA2, are a big upgrade. Because D-Link now recommends WPA-PSK or WPA2 for stronger wireless security, this guide does not cover the older WEP security standard.

This guide assumes you're using D-Link wireless networking equipment, but if you're not, the steps in this guide will be similar to other equipment on the market.

## Setting up WPA-PSK or WPA2

Important: Please ensure that you change the default username and password of your broadband router to ensure security! Please write and keep the new username and password in a safe place.

### Step 1: Setting up your wireless broadband router or access point's WPA-PSK or WPA2
1. Log into the Access Point using your Web browser, such as Internet Explorer. Often the address to type into your browser is 192.168.0.1. You'll usually be asked for a username and password to log into your account. You should have set these up when you first installed your wireless broadband router or wireless access point. If you haven't, or can't remember, check your manual for the default settings, but D-Link strongly suggests you change the password to something more secure. In the initial setup process, you'll also be asked to give your wireless network a name, known as an SSID, or Service Set Identifier. You'll need to remember this later, as it will be the name of the network you'll choose to connect to from your laptop or other wireless device.
2. Go to Wireless configuration page (Home→Wireless). Select the WPA-PSK option, or if available WPA2 (if the connecting device supports WPA2).
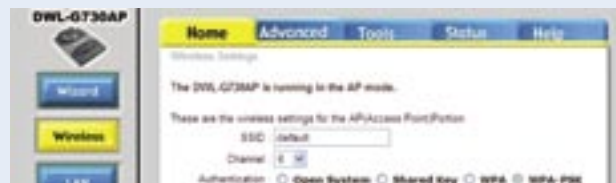


3. Type in a security code that you've chosen. This must be no less than eight characters and should include a mixture of letters and numbers.
4. Press Apply to complete the configuration.

You now have a WPA-PSK or WPA2 password set up in your wireless broadband router or access point. This password now needs to be entered into the laptop or other wireless device that you want to have securely connecting to your wireless network.

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▶DWA-645


▶DWA-547


▶DIR-635

## Step 2: Setting up the WPA-PSK or WPA2 key on your wireless network card

There are two ways to set up your computer's wireless card to connect with your wireless network. One is by using the wireless configuration utility that came with your wireless network card, such as the D-Link Wireless Utility. The second is by using Windows XP's wireless configuration utility. We'll look at both.

### 2a. If you're using D-Link Wireless Utility:

1. Open the D-Link AirPlus wireless utility by double-clicking on the bar graph icon and selecting Encryption. Usually a wireless networking icon will appear in your computer's tool bar, next to the clock on the bottom right-hand side of the screen.
2. Select your wireless network – it will have the name you gave to the SSID when you set up your wireless network.
3. Put a tick in the "Data Encryption" box and select either WPA-PSK or WPA 2. Then type in the password that was entered into the wireless broadband router or access point in Step 1.
4. Once you click OK, the D-Link Wireless Utility will attempt to connect you to your wireless network and, if successful, you will have an Internet connection. If unsuccessful, check that you've typed in the WPA or WPA 2 password correctly both here and in your wireless broadband router or access point settings.



### 2b. If you're using Windows XP's wireless network settings:

1. Using Windows XP as an example, right-click My Network Places on your desktop and click Properties, or if it's not there, click Start→Control Panel→Network.
2. Select your Wireless LAN Card, right-click on the icon and select Properties. Click on Wireless Network.
3. Select the name of your wireless network (or SSID). Then click Configuration on the right.
4. Under "Network Authentication" select WPA-PSK, and under "Data encryption", select TKIP. If available, select WPA2.
5. Type in the "Network key", which is the same password you entered on your wireless broadband router or access point.
6. Press OK to finish. Windows XP should now attempt to successfully connect to your wireless network, and if successful, you will be able to connect to the Internet. If unsuccessful, check that you've typed in the WPA or WPA 2 password correctly both here and in your wireless broadband router or access point settings.

That's it! Your computer's wireless network card is now talking to your wireless broadband router or access point. The data travelling across your wireless network is encrypted, making it very difficult for anyone to snoop, especially when you use the WPA-PSK or WPA2 security standards.

Once you've set up all of your computers with wireless Internet access, you can turn off the broadcasting of your wireless network name, or the SSID, in your wireless broadband router or access point. Turning this off means that your computers can still access the wireless network, but neighbours or hackers are unlikely to even know there's a wireless network there. If they're able to see anything, the name of the network will be scrambled, making it much harder for anyone to break in.

If you find you're still unsure how to set up the security of your wireless network properly, along with the very important step of changing the default username and password of your router, please seek help from knowledgeable friends or professionals.

So now that you know how important it is to set up the security in your wireless network, there's no excuse for not doing it. D-Link urges you to use your wireless network in a secure manner – today!

# Technology guide

## ▼ Wireless G

**Up to 54 Mbps**

### High-Speed 2.4GHz 802.11g Wireless Network Solutions

▶01. DWL-G122  ▶02. DWL-G630  ▶03. DWL-G510  ▶04. DWL-G710

▶05. DI-524UP  ▶06. DWL-G700AP  ▶07. DWL-G730AP

**01. AirPlusG™ 54Mbps Wireless USB Key Adapter**
USB 2.0 wireless adapter for 802.11g/b networks.

**02. AirPlusG™ 54Mbps Wireless LAN Cardbus Adapter**
A wireless PC card to access 802.11g/b networks.

**03. AirPlusG™ 54Mbps Wireless LAN PCI Adapter**
An internal PCI wireless card for desktop computers and 802.11g/b networks.

**04. AirPlusG™ 54Mbps Wireless Range Extender**
Create a larger wireless network.

**05. AirPlusG™ 54Mbps Wireless Broadband Router**
Create an advanced wireless network with USB and QoS for VoIP.

**06. AirPlusG™ 54Mbps Wireless LAN Access Point**
Plug into your wired network to create an 802.11b/g wireless network.

**07. AirPlusG™ Pocket Wireless Router/Access Point**
Create a wireless network anywhere!

▶08. DWL-922

▶09. DWL-923

▶10. DWL-925

**08. AirPlusG™ 54Mbps Wireless USB Kit**
This new kit features the DI-524 wireless router. It operates on the 802.11g standard at 54Mbps speeds. It comes with a DWL-G122 USB 54Mbps Wireless adapter which is suitable for desktop or laptop computers.

**09. AirPlusG™ 54Mbps Wireless Laptop Kit**
The second new kit is the DWL-923. This replaces the USB adapter with the DWL-G630, a 54Mbps wireless CardBus Adaptor for laptop computers.

**10. AirPlusG™ 54Mbps Wireless Desktop Kit**
The third new kit is the DWL-925. This kit replaces the USB adapter with the DWL-G510, a 54Mbps wireless PCI Adapter for desktop computers.

## ▼ Wireless 108G

**Up to 108 Mbps**

### High-Speed 2.4GHz XtremeG 108G Wireless Solutions

▶11. DWL-G132  ▶12. DWL-G650  ▶13. DWL-G520

▶14. DI-624S  ▶15. DWL-2100AP  ▶16. DWL-G810

**The 108G solutions transfer data at up to twice the speed of standard 802.11g equipment.**

**11. Wireless 108G USB Adapter**
A USB 2.0 wireless adapter for notebooks and desktops.

**12. Wireless 108G Cardbus Adapter**
A wireless PC Card adaptor for notebooks.

**13. Wireless 108G PCI Adapter**
An internal wireless adaptor for desktops.

**14. Wireless 108G Storage Router**
Share a network connection, Internet access, multiple USB 2.0 storage drives and printers. Create an advanced, high speed wireless network in your home or business.

**15. Wireless 108G Access Point**
Turn your wired network into a 108G wireless nework.

**16. High-Speed 108G Wireless Bridge**
Convert any Ethernet enabled device such as video games consoles, Ethernet based printers and more into a 108G wireless device.

## ▼ SecureSpot DSD-150

**New!**

### SecureSpot Internet Security Device

▶17. DSD-150

**One small box. Total Network Security.**

**17. SecureSpot DSD-150**
D-Link's SecureSpot Internet Security Device (DSD-150) is a complete all-in-one Internet security solution that provides several key features including network protection, firewall protection, virus protection, spyware protection, identity theft protection, pop-up blocker, SPAM blocker and parental control - all in a palm-sized box. Provide around-the-clock protection for your data and personal information with the SecureSpot Internet Security Device. Protects up to four computers out of the box, with the ability to easily buy more licenses if required.

# ▼ Voice Over Internet

▶20. DPH-C160S ▶21. DVG-2001S ▶22. DVG-G1402S ▶23. DI-102 ▶24. DVA-G3340S

New!

**Solutions for making phone calls over the Internet using VoIP**

**20. DPH-C160S Cordless Internet Telephone***
A full-featured cordless phone that works with normal and Internet phone lines at the same time! Compatible with most VoIP telephone service providers.

**21. DVG-2001S VoIP Terminal Adapter***
Plug in your existing corded or cordless analog telephone and use to make Internet phone calls.

**22. DVG-G1402S VoIP Station Gateway***
A wireless broadband router with VoIP phone sockets and QoS for increased quality calls.

**23. DI-102 Broadband Internet/VoIP Accelerator***
Uses QoS technology for static-free VoIP calls, jitter-free streaming video and lag-free online gaming by prioritising bandwidth-sensitive packets so that they can be sent over the Internet as soon as the request is made. Upgrade your existing VoIP equipment to take advantage of QoS.

**24. DVA-G3340S Wireless ADSL2+ Triple Play Router***
A wireless broadband router with ADSL 2+ modem, 2 VoIP phone ports and more.

* Note: You must choose an Internet (VoIP) Phone Service Plan and sign up for service. VoIP phone plans, rates and features may vary depending on VoIP Phone Service

Provider(s). D-Link Australia Pty Ltd is not a Telephone Service Provider or VoIP Phone Service Provider. Please check the limitations of liability as outlined by your VoIP Service Provider. Voice quality may be affected if large file transfer occurs at the same time.

# ▼ Wireless N    New!

**Do you feel the need for speed? Wireless N transfers data at speeds of up to 650% faster than standard 54G equipment with greater range than ever before. Based on the 802.11n draft standard, you can attain speeds even faster than 100Mbps wired Ethernet networks.**

▶ 25. DIR-655

▶ 26. DIR-635

▶ 27. DWA-645

▶ 28. DWA-547

**25. DIR-655 Xtreme N Gigabit Router**
D-Link's best wireless router ever using the latest Draft N standard for ever faster wired and wireless speeds than with the DIR-635 RangeBooster N below!

**26. DIR-635 RangeBooster N 650 Wireless Router**
The wireless router you need to create D-Link's superfast wireless network in your home or office.

**27. DWA-645 RangeBooster N 650 Notebook Adapter**
For portable computers, this card works with the RangeBooster N router to deliver faster speeds and greater range.

**28. DWA-547 RangeBooster N 650 Desktop Adapter**
Desktop computers can also benefit from the massive speed and range of the RangeBooster N solution. Put your desktop computers where they suit you - the triple antenna ensures you get coverage where you need it.

# ▼ Wireless Media Gateway

New!

▶29. DSM-320RD

**29. DSM-320RD Wireless Media Gateway**
Watch digital media stored on your PC's hard drive through your TV and existing home theatre system! Includes DVD player and memory card reader. Also available is the DSM-320.

# ▼ Indoor Wireless Antennae

▶30. ANT24-0700

▶31. ANT24-0600

**Increase the range of your 802.11b/g wireless network**

**30. 7dBi High Gain Omni-Directional Antenna**
Provides high transmission/reception rates for wireless LAN devices operating on the 2.4Ghz band. Works with 802.11b/g.

**31. 6dBi Indoor Directional Antenna**
Connect this antenna directly to the wireless access point or wireless router using a reverse SMA connector.

# Technology guide

## ▼ ADSL Modems & Routers

**01. Wireless ADSL2/2+ Router + Built-in 4-Port Switch**
An ADSL2/2+ wireless broadband router (up to 24Mbps download speeds*) with 802.11g wireless networking, a 10/100 4-port switch & much more.

**02. Fast Ethernet ADSL2/2+ Router + Built-in 4-Port Switch**
ADSL2/2+ wired router with 10/100 4-port switch, SPI Firewall, DHCP and more.

**03. RangeBooster N ADSL/ADSL2/2+ Modem Router**
Combine high-performance 802.11n wireless networking with ADSL 2/2+ speeds!

**04. USB/Fast Ethernet Combo ADSL2/2+ Router**
A USB and fast Ethernet ADSL2/2+ modem that lets you connect at up to 24Mbps speeds*.

**05. Wireless ADSL2/2+ VPN Router**
High-speed wireless router with VPN designed for business usage.

* Your ISP must support and provide you with an ADSL 2, ADSL 2+ service for these features to be available. This product will operate as a standard ADSL modem when an ADSL 2/2+ service is not available.

▶02. DSL-504T

New!

▶03. DSL-2740B

▶05. DSL-G804V

▶04. DSL-502T

▶01. DSL-G604T

## ▼ Wireless Print Servers

**Turn your wired printers wireless!**

**06. Wireless 2.4GHz USB 2.0 Print Server**
An 802.11g wireless Print Server with one USB 2.0 port that lets you share a USB printer on the network.

**07. Wireless 2.4GHz Parallel Print Server**
A wireless 802.11g Print Server with one bi-directional parallel port for direct connection to parallel port printers. Conveniently make existing printers wireless.

**08. Multi-Port Two USB 2.0 & Single Parallel Print Server**
An 802.11g wireless print server with two USB 2.0 ports and a parallel port for connecting legacy parallel printers with multiple networking options.

▶07. DP-G301

▶06. DP-G310

▶08. DP-G321

## ▼ USB

▶09. DUB-H4  ▶10. DFB-H7  ▶11. DUB-A2

**09. 4-Port USB 2.0 Hub, up to 480Mbps speed**
A 4-port USB 2.0 hub that connects 4 USB devices to your PC or Mac. Also available in a 7-port USB 2.0 model. Comes with a DC 5V/2.5A external power supply.

**10. USB 2.0/FireWire Combo Hub**
A combination USB 2.0 and 1394 FireWire hub that lets you connect four USB 2.0 devices and two FireWire devices and many more if daisy-chained. Comes with a USB and a FireWire cable and must be plugged into both sockets for all ports on the hub to work.

**11. USB 2.0 PCI Card**
Easily add two USB 2.0 ports to your PC. Great for older PCs without USB 2.0 ports, or for simply adding more ports to your current PC so you can connect more devices to your PC. Available for PCs only.

## ▼ KVM Switches

▶12. DVKM-2K  ▶13. DVKM-4K  ▶14. DVKM-CB

**12. Mini KVM Switch Kit for 2 PCs**
Control 2 different PCs from a single keyboard, mouse and VGA monitor. It includes a 2-port KVM (Keyboard, Video and Mouse) switch, and 2 sets of built-in cables for ready connection to 2 PCs.

**13. 4-Port KVM Switch**
A 4-port KVM switch for controlling up to 4 PCs using a single keyboard, monitor and mouse.

Includes two 6Ft. KVM cables. Use the at-a-glance LED indicators for computer status, hot keys and push buttons for switching between computers and a handy autoscan mode.

**14. DVKM-CB Cable Kit**
This cable kit allows you to effortlessly connect a computer's monitor, keyboard and mouse to a KVM switch. Keep your office or workspace organised, easy to manage and free of cable clutter.

# ▼ Internet Security Camera



**New!**

▶15. DCS-2120

▶16. DCS-G900

▶17. DCS-3220G

▶18. DVC-1000

▶19. DCS-5300G

**Internet cameras for security and surveillance**

**15. DCS-2120 Wireless Internet Camera for Home/SOHO**
A wireless Internet security camera that allows you to view a live video stream through a web browser or compatible 3G phones and PDAs when in 3G coverage.

**16. 802.11g Wireless G Internet Camera**
A stand alone camera with built-in CPU and web server that transmits high quality video images for

monitoring, and can be accessed remotely or controlled from any PC with Internet access.

**17. 802.11g Wireless 2-Way Audio Internet Camera**
A fully featured surveillance system that connects to wired Ethernet or 802.11g wireless. Offers two way audio allowing you to talk to anyone at your camera site. Sharp video with lifelike colour, a 4x digital zoom and more.

**18. Broadband Videophone**
Turns the TV into

a broadband video phone - no PC required! Instantly make and receive high quality video phone calls (at a smooth 30 frames per second) to anyone else also using a DVC-1000.

**19. Wireless IP Security Camera with Integrated Pan, Tilt, Zoom, Web Server & Motion Detection**
The ultimate wireless camera with pan, tilt, zoom, motion detection, a high-quality CCD sensor, remote web control and much, much more. The top of the range.

# ▼ Home Switches

*D-Link's high performance switches are designed to eliminate unnecessary traffic, and relieve congestion by delivering dedicated bandwidth for each port.*

▶20. DES-1008D



**20. DES-1008D 8-Port 10/100Mbps Switch**
Fast Ethernet Unmanaged Desktop Switch. Up to 200Mbps, auto-MDIX, Half/Full duplex support.

▶21. DGS-1008D



**21. DGS-1008D 8-Port 10/100/1000Mbps Switch**
Gigabit Unmanaged desktop switch, auto MDI/MDIX uplink, full/half duplex auto-negotiation, flow-control, 16Gbps switching capacity, desktop or wall-mount.

▶22. DES-1024DG



**22. DES-1024DG 22-Port 10/100Mbps Switch with 2-Port Gigabit**
Fast Ethernet Unmanaged Desktop Switch with Built-in 2-Port 1000BaseT Copper Gigabit. Auto MDI/MDIX, flow control, auto-learning of network configuration.

# ▼ Home Network Storage

**HI-SPEED USB CERTIFIED**

▶23. DNS-312H

▶24. DNS-300

▶25. DNS-120

**23. USB 2.0 Network Attached Storage Drives with built-in Print Server**
A Network Attached Storage (NAS) device that features a 120Gb pre-installed hard drive. Quick and

simple installation that requires no network downtime, with more features. Also available as the **(24)** DNS-300 without pre-installed hard disk, while the **(25)** DNS-120 connects USB drives to your wired network.

# ▼ Gaming Routers

**GAMERLOUNGE**

**26. DGL-4300 Wireless 108Mbps Gaming Router™**
A high-powered wireless router with high performance Gigabit LAN ports. Featuring GameFuel™ Priority technology for bandwidth-intense applications like online gaming, multimedia streaming, and VoIP applications. GameFuel™ Priority uses a custom traffic routing engine, which automatically prioritises and intelligently manages these bandwidth-sensitive applications.

Stay competitive in your game and still have enough available bandwidth to make VoIP calls and enjoy your streaming media. Also available as the DGL-4100 without wireless.

**27. DGL-3420 GamerLounge™ Wireless 108AG Gaming Adapter**
A high-performance Gaming Adapter designed to work with DGL series routers.

▶26. DGL-4300

▶27. DGL-3420

# HOW TO CONTROL THE INTERNET AND PROTECT YOUR CHILDREN

**securespot**
TOTAL NETWORK SECURITY by D-Link

DSD-150

- PARENTAL CONTROL
- ANTI VIRUS
- ANTI SPYWARE
- POP-UP BLOCKER
- SPAM BLOCKER

## Peace-of-mind and total home network protection with SECURESPOT™

SECURESPOT by D-Link takes the worry out of your children being exposed to, or accessing inappropriate content and unsavory sites and even allows you to define software usage (like instant messaging) on the internet to provide world-class protection at all times.

Easy to manage, monitor and install, SECURESPOT lets you configure every aspect of your home internet and even monitors the activity of each and every user – its like having a 24/7 sentry at your computer.

Take control of your internet and provide your family with the protection and safeguards they deserve with SECURESPOT, the all-in-one internet security device from D-Link.

This product and others are available from leading retailers and resellers.

For product enquiries please call
**Australia 1300 700 100**
**New Zealand 09 356 2158**

# D-Link®
**Building Networks for People**

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