



Quick Start Guide

V1.0

Vigor3220 Series Multi-WAN Security Router Quick Start Guide

Version: 1.0 Firmware Version: V3.8.2

(For future update, please visit DrayTek web site) Date: November 23, 2015

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Safety Instructions and Approval

Safety Instructions	 Read the installation guide thoroughly before you set up the router. The router is a complicated electronic unit that may be repaired only be authorized and qualified personnel. Do not try to open or repair the router yourself. Do not place the router in a damp or humid place, e.g. a bathroom. Do not stack the routers. The router should be used in a sheltered area, within a temperature range of 0 to +45 Celsius. Do not expose the router to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources. Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards. Keep the package out of reach of children. When you want to dispose of the router, please follow local regulations on conservation of the environment.
Warranty	We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary tore-store the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

European Community Declarations

Manufacturer: DrayTek Corp. Address: No. 26, Fu Shing Road, HuKou Township, HsinChu Industrial Park, Hsin-Chu County, Taiwan 303 Product: Vigor3220 Series

DrayTek Corp. declares that Vigor3220 Series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE 1999/5/EC, ErP 2009/125/EC and RoHS 2011/65/EU.

The product conforms to the requirements of Electro-Magnetic Compatibility (EMC) Directive 2004/108/EC by complying with the requirements set forth in EN55022/Class A and EN55024/Class A.

The product conforms to the requirements of Low Voltage (LVD) Directive 2006/95/EC by complying with the requirements set forth in EN60950-1.

This product is designed for 2.4GHz WLAN network throughout the EC region. Please see the user manual for the applicable networks on your product.

Regulatory Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device may accept any interference received, including interference that may cause undesired operation.



More update, please visit www.draytek.com.

Be a Registered Owner

Web registration is preferred. You can register your Vigor router via http://www.draytek.com.

Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

http://www.draytek.com

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1. Introduction

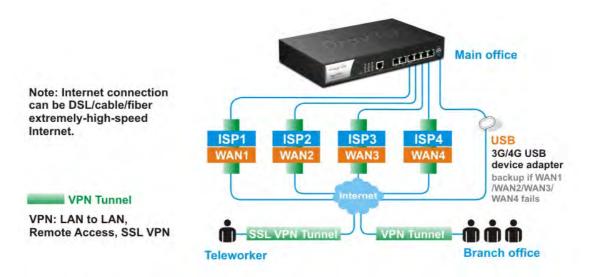
Vigor3220 Series is a broadband router. It integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

By adopting hardware-based VPN platform and hardware encryption of AES/DES/3DES, the router increases the performance of VPN greatly, and offers several protocols (such as IPSec/PPTP/L2TP) with up to **100** VPN tunnels (including 50 SSL VPN tunnels).

The object-based design used in SPI (Stateful Packet Inspection) firewall allows users to set firewall policy with ease. CSM (Content Security Management) provides users control and management in IM (Instant Messenger) and P2P (Peer to Peer) more efficiency than before. By the way, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

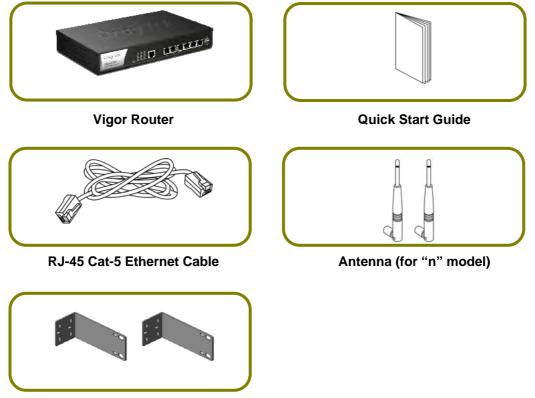
Object-based firewall is flexible and allows your network be safe. In addition, Vigor3220 Series supports USB interface for connecting USB printer to share printer or USB storage device for sharing files, or for 3G/4G WAN connection.

Vigor3220 Series provides two-level management to simplify the configuration of network connection. The user mode allows user accessing into WEB interface via simple configuration. However, if users want to have advanced configurations, they can access into WEB interface through admin mode.



2. Package Content

Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.



Rack mount kit (brackets)

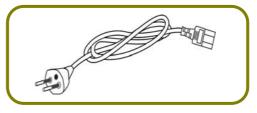
The type of the power adapter depends on the country that the router will be installed. * The maximum power consumption is *17-23 Watt*.



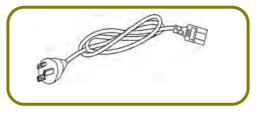
UK-type Power Cord



USA/Taiwan-type Power Cord



EU-type Power Cord



AU/NZ-type Power Cord

3. Panel Explanation



LED	Status	Explanatio	n		
ACT	Blinking	The router is powered on and running normally.			
(Activity)	Off	The router is powered off.			
USB1~USB2	On	A USB device is connected and active.			
	Blinking	The data is transmitting.			
CSM	On	The profile of CSM (Content Security Management) for IM/P2P application is enabled from Firewall >> General Setup. (Such profile is established under CSM menu).			
WLAN	On	Wireless acc	Wireless access point is ready.		
	Blinking	Ethernet pac	ckets are transmitting over wireless LAN.		
	Off	The WLAN fu	unction is inactive.		
WAN1~WAN4	On	The WAN co	onnection is ready.		
	Blinking	It will blink	while transmitting data.		
VPN	On	VPN tunnel is up and down.			
	Off	VPN services are disabled.			
	Blinking	Traffic is passing through VPN tunnel.			
LED on Conne	ctor				
DMZ	Left LED	On	The port is connected.		
	(Green)	Off	The port is disconnected.		
		Blinking	The data is transmitting.		
	Right LED	On	The port is connected with 1000Mbps.		
	(Green)	Off	The port is connected with 10/100Mbps.		
	Left LED	On	The port is connected.		
LAN	(Green)	Off	The port is disconnected.		
		Blinking	The data is transmitting.		
	Right LED	On	The port is connected with 1000Mbps.		
	(Green)	Off	The port is connected with 10/100Mbps.		
	Left LED	On	The port is connected.		
WAN1~WAN4	(Green)	Off	The port is disconnected.		
		Blinking	The data is transmitting.		
	Right LED	On	The port is connected with 1000Mbps.		
	(Green)	Off	The port is connected with 10/100Mbps.		





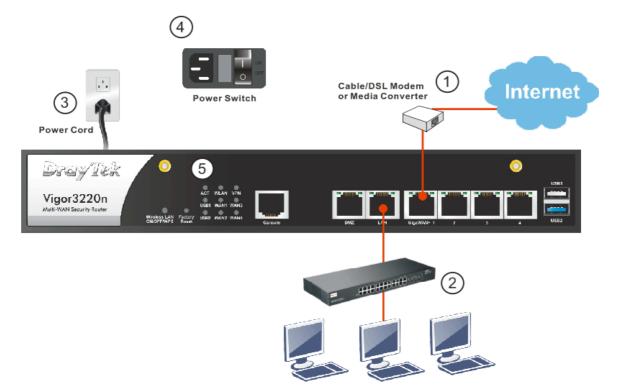
latarfa ao	Description
Interface	Description
Wireless LAN	WLAN On - Press the button and release it within 2 seconds.
ON/OFF/WPS	When the wireless function is ready, the green LED will be on.
	WLAN Off - Press the button and release it within 2 seconds to
	turn off the WLAN function. When the wireless function is not
	ready, the LED will be off.
	WPS - When WPS function is enabled by web user interface,
	press this button for more than 2 seconds to wait for client's
	device making network connection through WPS.
Factory Reset	Restore the default settings.
	Usage: Turn on the router (ACT LED is blinking). Press the hole and
	keep for more than 5 seconds. When you see the ACT LED begins to
	blink rapidly than usual, release the button. Then the router will
	restart with the factory default configuration.
Console	Connector reserved for debug or obtaining log of Vigor system.
DMZ	Connector for local DMZ host.
LAN	Connectors for local networked devices.
WAN1~WAN4	Connector for remote networked devices.
USB1~USB2	Connector for a USB device (for 3G/4G USB Modem or printer).
	Connector for a power cord.
-	
ON/OFF	Power Switch.

4. Hardware Installation

This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

Before starting to configure the router (taking Vigor3220n for example), you have to connect your devices correctly.

4.1 Network Connection



- 1. Connect the cable Modem/DSL Modem/Media Converter to any WAN port of router with Ethernet cable (RJ-45).
- 2. Connect one end of an Ethernet cable (RJ-45) to the LAN port of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer. Or, use a switch to connect Vigor router and computer(s).
- 3. Connect one end of the power cord to the router's power port on the rear panel, and the other side into a wall outlet.
- 4. Power on the device by pressing down the power switch on the rear panel.



5. The system starts to initiate. After completing the system test, the ACT LED will light up and start blinking.

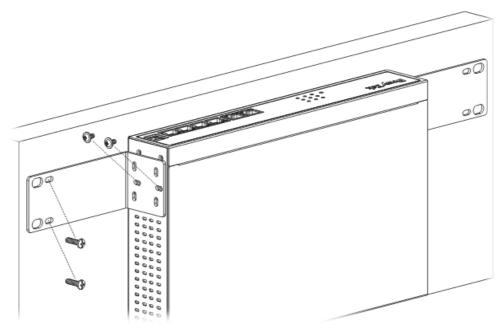
(For the detailed information of LED status, please refer to section 3. Panel Explanation)

4.2 Wall-Mounted Installation

Vigor can be mounted on the wall by using standard brackets shown below.



Choose a flat surface (on the wall) which is suitable for placing the router. Make the screw holes on the short side of the bracket aim at the screw holes on the router. Next, fasten both the bracket and the router with two screws; and fasten both the wall and the bracket with another two screws. Refer to the following figure.



Then, continue to fasten the screws on the other side of the router and the wall with other screws.

When you finished about procedure, the router has been mounted on the wall firmly.

5. Software Configuration

To access Internet, please finish basic configuration after completing the hardware installation.

5.1 Quick Start Wizard for Network Connection

The Quick Start Wizard is designed for you to easily set up your router for Internet access. You can directly access the Quick Start Wizard via Web Configurator.

1. Make sure your PC connects to the router correctly.



You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as the default IP address of Vigor router 192.168.1.1. For the detailed information, please refer to the later section - Trouble Shooting on the user's guide.

2. Open a web browser on your PC and type http://192.168.1.1. A pop-up window will open to ask for username and password. Please type "admin/admin" as the Username/Password and click Login.

Dray Tek	Vigor3220 Series
Login	
Username Password	admin •••••
	yright © 2015 DrayTek Corp. All Rights erved.

 Note
 If you fail to access to the web configuration, please go to "Trouble Shooting" on User's Guide for detecting and solving your problem.
 3. Now, the Main Screen will pop up. Click Wizards>>Quick Start Wizard.

Dray Tek	Vigor	SZZU Series					
Auto Logout 🔻 🛛 🛛 🦉	Dashboard	8					
Pashhoard Wizards Online Status WAN LAN Load-Balance/Route Policy NAT		r3220n Security Router	ACT WLA ACT WLA USB1 WAA FFWPS Reset	N VPN 41 98AN3 22 98AN4 Centrole	DALZ		, , , , , , , , , , , , , , , ,
Hardware Acceleration	System II	nformation					Quick Access
Jser Management	Model Nar	ne Vigor3220r	1	System Up Time	0:0:20		System Status
Objects Setting	Router Nan	ne DrayTek		Current Time	2000 Jan 1	. Sat 0:0:11	Dynamic DNS
CSM	Firmware	Version 3.8.2		Build Date/Time	Nov 18 20	15 14:31:20	TR-069
Bandwidth Management	LAN MAC /	Address 00-1D-AA-0	0-00-00				User Management
Applications							IM/P2P Block
VPN and Remote Access	IPv4 Inte	rnet Access					Schedule
Certificate Management		Line / Mode	IP Address	MAC Addre	SS	Up Time	SysLog / Mail Alert
Central VPN Management Central AP Management	WAN1	Ethernet /	Disconned			00:00:00	LDAP
Wireless LAN	WAN2	Ethernet /	Disconned		00-00-02	00:00:00	RADIUS
SSL VPN	WAN3	Ethernet /	Disconned			00:00:00	Firewall Object Setting
USB Application	WAN4	Ethernet /	Disconned			00:00:00	Data Flow Monitor
System Maintenance	WAN5	USB /	Disconned	ted 00-1D-AA-	00-00-05	00:00:00	
Diagnostics							-
External Devices	Interface						
	WAN	Connected : 0,		AN2 🔍 WAN3 🥥	WAN4 W	AN5	_
Support Area	LAN	Connected : 0,	AN1				_
Droduct Deviatration	WLAN	Connected : 0					-
	USB	Connected : 0,	USB 1 USB 2				
							-

 Note
 The home page will change slightly in accordance with the router you have.

4. Enter the login password on the field of New Password and retype it on the field of Confirm Password. Then click Next to continue.

nter login password				
Please enter an alpha-num	eric string as your	Password (Max 23 ch	aracters).	
Old Password	••••			
New Password				
Confirm Password				
	-	< Back Next >	Finish	Cancel

5. On the next page as shown below, please select the WAN interface (WAN 1 to WAN5) that you use. If Ethernet interface is used, please choose WAN1~WAN4. If USB interface is used, choose WAN5. For WAN 1 to WAN4, choose Auto negotiation as the physical type for your router. Here we take WAN1 as an example. Then, click Next for next step.

Quick Start W WAN Interfac		
WAN Displ Phys	Interface: ay Name: ical Mode: ical Type:	WAN1 V Ethernet Auto negotiation V Auto negotiation 10M half duplex 100M full duplex 100M full duplex 1000M full duplex
		< Back Next > Finish Cancel
? Note		five WAN selections available for you to choose. N5 is selected for 3G USB modem connection.

6. On the next page as shown below, please select the appropriate protocol according to the information from your ISP. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. Then click Next for next step.

Connect to Internet					
WAN 1					
Select one of the fo	llowing Internet Acc	ess types provi	ded by your IS	Ρ.	
	PPPoE				
	O PPTP				
	O L2TP				
	O Static IP				
	U DHCF				
		<pre>Back</pre>	Next ≻	Finish	Cancel

PPPoE: If you click **PPPoE** as the protocol, after clicking **Next**, you will get the following web page. Please manually enter the Username/Password provided by your ISP. Then click **Next**.

Quick Start Wizard

PPPoE Client Mode	
WAN 1	
Enter the user name and passwor	rd provided by your ISP.
Service Name (Optional)	
Username	
Password	
Confirm Password	
L	
	<pre></pre>

PPTP/L2TP: if you click PPTP/L2TP, you will get the following page. Please type in all the information originally provided by your ISP. Then click **Next** for next step.

WAN 1		
Enter the username, pas by your ISP.	sword, WAN IP configurat	ion and PPTP server IP provided
Username		
Password		
Confirm Password		
WAN IP Configuration		
🔘 Obtain an IP addres	s automatically	
💿 Specify an IP addres	s	
IP Address		
Subnet Mask		
Gateway		
Primary DNS	8.8.8	
Second DNS	8.8.4.4	
PPTP Server		

Static IP: if you click Static IP, you will get the following page. Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.

Quick Start Wizard

WAN 1			
Enter the Static IP config	uration provided by your IS	SP.	
WAN IP	172.16.3.302		
Subnet Mask	255.255.255.0		
Gateway	172.16.3.1		
Primary DNS	8.8.8.8		
Secondary DNS	8.8.4.4	(optional)	

DHCP: if you click DHCP, you will get the following page. Simply click **Next** to continue.

WAN 1	
If your ISP req enter it in.	uires you to enter a specific host name or specific MAC address, please
Host Name	Vigor (optional)
MAC	00 -1D -AA -00 -00 -01 (optional)

7. Now you can see the following screen. It indicates that the setup is complete. Different types of connection modes will have different summary. Click **Finish** and then restart the router. Afterward, you will enjoy surfing on the Internet.

Please confirm your settings: WAN Interface: Physical Mode:	WAN1 Ethernet	
Internet Access:	DHCP ges if necessary. Otherwise, click Finish to	o save the current
	< Back Next >	Finish Cancel

6. Customer Service

If the router cannot work correctly after trying many efforts, please contact your dealer/DrayTek for further help right away. For any questions, please feel free to send e-mail to support@draytek.com.