Quick Network Setup Guide

Connecting to the network using a router

By using a router, you can connect your computer and 1 ~ 3 DVR machines to the internet by sharing 1 internet connection via xDSL or cable modem.

This installation guide aims at casual users, not for network professionals.



For proper use of the router, strictly follow the steps 1 to 5.

Configure your router, computer and DVR equipments as described in the following steps.

- Step 1. Connecting Cables
- Step 2. Connecting your local computer to the router
- Step 3. Connecting DVR to the router
- Step 4. Connecting the router to the internet service line
- Step 5. Configuring router's port forwarding
- Step 6. Accessing DVR using DDNS service in dynamic IP environment

Step 1. Connecting Cables

- 1. Connect the internet service line (xDSL/Cable Modem) to your router's Internet (WAN) port.
- 2. Connect Ethernet cables from your computer and DVRs to the LAN (1 to 4) ports of the router.



Step 2. Connecting your local computer to the router

Step 2.1 Connection Setup

- 1. Click [Start] on your computer.
- 2. Open the <Control Panel>-<Network Connections>. The "Network Connections" window appears.
- 3. Select <Local Area Connection> and right click on it.
- 4. Select < Properties>.



- 5. "Local Area Connection Properties" window appears.
- 6. Select <Internet Protocol (TCP/IP)> and click [Properties] button.

🕂 Local Area Connection Properties 🛛 🖓 🗙				
General Advanced				
Connect using:				
Attansic L1 Gigabit Ethernet 10/100/				
This connection uses the following items:				
Client for Microsoft Networks Ple and Printer Sharing for Microsoft Networks Ple QoS Packet Scheduler Ple QoS Packet Scheduler Internet Protocol (TCP/IP)				
Install				
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
 Sho<u>w</u> icon in notification area when connected ✓ Notify <u>m</u>e when this connection has limited or no connectivity 				
OK Cancel				

- 7. Select <Obtain an IP address automatically> and <Obtain DNS server address automatically>, and click [OK] button.
- 8. Click [OK] button to finish the setup.

Internet Protocol (TCP/IP) Prop	erties ?X
General Alternate Configuration	
You can get IP settings assigned aut this capability. Otherwise, you need to the appropriate IP settings.	omatically if your network supports o ask your network administrator for
Obtain an IP address automatic	ally
Use the following IP address: -	
IP address:	
Sybnet mask:	
Default gateway:	
Obtain DNS server address auto	omatically
OUse the following DNS server a	ddresses:
Preferred DNS server:	
Alternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel

Step 2.2 Confirming the Connection

- 1. Click [Start] on your computer.
- 2. Click [Run...].
- On the appeared command dialog, type 'cmd' in the <<u>Open></u> box and click [OK].
- 4. In the DOS command window [cmd.exe], type 'ipconfig' and press [Enter].





- Run the Internet Explorer, and enter the <Default Gateway> IP address found from the "cmd.exe" window into the address field, and press [Enter].
- 6. The router's login page will appear if all connections are properly established.

http://192.168.1.1/ - Microsoft Internet Explorer				
File Edit Vie	ew Favorites To	ols Help		
G Back •		Search Search	Favorites	00.00
Address 🖉 htt	p://192.168.1.1/			
	Connect to 192	168.1.1	2 password Cancel	

 If the connection does not establish, check all cable connections and go to step 2.1 and select <**Repair**>.
 On the "Local Area Connection Status" window, click
 <**Support**> tab and check <**Default Gateway**> if matches to the one found in the [cmd.exe], and check the connection again.



Connection Mode

Transfer Bandwidth

Static

2Mbps

192.168.1.200

255.255.255.0

192.168.1.

10

168.126.63.1

Interface

IP Type

IP Address

Subnet Mask

Gateway

DNS

Step 3. Connecting DVR to the router

Step 3.1 Configuring DVR router setup

- 1. Press the [MENU] button on the remote control.
- Use the left/right button (◄►) to select <Network>. Network menu is selected.
- 3. Use the up/down buttons (▲▼) to move to <**Connection Mode**>, and press [ENTER] button.
- 4. Select <Interface>. A window of connection mode setup appears.
- 5. Use direction buttons $(\blacktriangle \lor \blacktriangleleft \triangleright)$ to move to a desired item.
- 6. Enter the <IP address>.

The IP address consists of 4 fields, and the first 3 fields should be same to those of **>Default Gateway>** address of your computer which can be found in Step 2, and the last field should be unoccupied number (between 2 and 254).

- ex) IP : 192.168.1.200
- 7. Enter the <Gateway> and <Subnet Mask> as same to those of your computer found in Step 2.
- Set the <Device Port> and <HTTP Port>. Set the Device Port and HTTP Port by referring to next page.

Interface	Port
Protocol Type	TCP
Device Port	4520 ~ 4524
UDP Port	8000~8160
Unicast/Multicast	UDP-Unicast
Multicast IP Address	224.126.63.1
Multicast TTL	5 🔛
HTTP Port	80
Secure Video Transmi	ssion 🔄 ON 👿 OFF
* Multi Browser Support	
Device Port 4505~4530	, HTTP Port 80

What is port?

As usual, the <HTTP Port> uses port 80.

If the port is not setted, it is automatically regarded to 80 in http protocol.

For example, http://www.yahoo.com and http://www.yahoo.com:80 are regarded the same.

Hence, if the <HTTP Port> has been changed other than 80, you need to specify the address as: http://<IP ADDRESS>:<HTTP Port>

 ex) http://192.168.1.200:80 to connect to the DVR using internet browser. (Only when the port is set to 80, you can omit the port in the address.)

It is recommended to set <HTTP Port> to port number between 1024 and 65535.

If the port is not set to 80, accessing can be restricted depending on your service provider's security policy or firewall configuration.

DVR uses <HTTP Port> and <Device Port> for web connections.

<HTTP Port> is used for accessing DVR by using an internet browser.

< Device Port> is used for receiving video from DVR to internet browser.



- When configuring multiple DVR, <HTTP Port> and <Device Port> settings should be configured differently for each device.
- ex) DVR #1 Device Port : 4520, HTTP Port : 80 DVR #2 Device Port : 50000, HTTP Port : 2000

Step 3.2 Checking DVR connection on your computer

- 1. Run the Internet Explorer, and enter the <IP ADDRESS> and <HTTP Port> of the DVR into the address, and press [Enter].
 - ex) http://192.168.1.200:80
- 2. If the connection establishes properly, the Web Viewer screen appears.
- **3.** If the connection fails, check Steps 1, 2 and 3 to confirm the connection setup.



Step 4. Connecting the router to the internet service line

Internet connection setup method and steps may differ from routers, check your router's setup method.

Connection types according to your internet service

Setting the internet connection may differ from internet service types, check your environment before proceeding and select the appropriate connection type.

- DHCP(Dynamic) : IP environment which allocates IP address automatically.
- Static(Fixed) : IP environment using public IP addresses.
- PPPoE: Common in DSL environments, which requires ADSL access ID and password. Ask your internet service provider for the user ID and password.
 - Name of each type described above may differ from router manufacturers.

Step 4.1 Connection guide by routers

Step 4.1-Case 1. D-LINK DIR-330

- 1. Run the Internet Explorer and enter the <**Default Gateway**> found in Step 2 into the address field and press [**Enter**].
- When the router login screen appears, enter the <User name> and <Password>.

Refer to the router user manual for ID and password.

Connect to 192.	168.1.1	? ×
F	B	- AL
The server 192.168 password. Warning: This serve password be sent in without a secure cor	.1, 1 at DIR-330 requires a use r is requesting that your user an insecure manner (basic au nnection).	ername and name and thentication
User name: Password:	😰 admin	×
	Remember my password	
	ОК	Cancel

- Select internet connection method from connection setup wizard and manual setup.
 Selecting the Internet Connection Setup Wizard automatically moves to the next step.
- 4. For manual setups, click < Manual Configure>.



5. Select your <Internet Connection Type>.

INTERNET CONNECTION TYPE :				
Choose the mode to be used by the router to connect to the Internet.				
My Internet Connection is : Dynamic IP (DHCP)				
DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE :				
Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address information and/or a username and password.				
Host Name :				
MAC Address : 00 - 00 - 00 - 00 - 00 (optional)				
Primary DNS Address :				
Secondary DNS Address : (optional)				
MTU: 1500				

Dynamic IP Address Environment

- 6. Select < Dynamic IP (DHCP)>.
- 7. Click [Save Settings] button.

INTERNET CONNECTION TYPE :				
Choose the mode to be used by the router to connect to the Internet.				
My Internet Connection is : Dynamic IP (DHCP)				
DYNAMIC IP (DHCP) INTERNET CONNECTION TYPE :				
Use this Internet connection type if your Internet Service Provider (ISP) didn't provide you with IP Address information and/or a username and password.				
Host Name :				
MAC Address : 00 - 00 - 00 - 00 - 00 - 00 (optional)				
Clone MAC Address				
Primary DNS Address :				
Secondary DNS Address : (optional)				
MTU: 1500				

Static IP Address Environment

- 6. Select <Static IP>.
- 7. Enter the <IP Address>, <Subnet Mask>, and <ISP Gateway Address> assigned by your ISP.
- 8. Click [Save Settings] button.

INTERNET CONNECTION TYPE :					
Choose the mode to be used by the router to connect to the Internet.					
My Internet Connection is : Static IP					
STATIC IP ADDRESS IN	ITERNET CONNECTION TYPE :				
Enter the static address information provided by your Internet Service Provider (ISP).					
IP Address :	0.0.0.0 (assigned by your ISP)				
Subnet Mask :	0.0.0.0				
ISP Gateway Address :	0.0.0.0				
MAC Address :	00 - 00 - 00 - 00 - 00 - 00 (optional)				
	Clone MAC Address				
Primary DNS Address :					
Secondary DNS Address :	(optional)				
MTU :	1500				

ADSL Environment

- 6. Select < PPPoE (Username/Password)>.
- Enter your <User Name> and <Password>. Ask your internet service provider for the username and password.

INTERNET CONNECTION TYPE :				
Choose the mode to be used by the router to connect to the Internet.				
My Tehning & Companying in a Conf. of the second distance in the second se				
Hy Internet connection b .	PPPOE (Oscillanie / Password) (*			
PPPOE :				
Enter the information provided by your Internet Service Provider (ISP).				
User Name :	Dynamic PPPoE Static PPPoE			
Password :				
Retype Password :				
Service Name :	(optional)			
IP Address :	0.0.0.0			
MAC Address :	00 - 00 - 00 - 00 - 00 - 00 (optional)			
	Clone MAC Address			
Primary DNS Address :				
Secondary DNS Address :	(optional)			
Maximum Idle Time :	5 Minutes			
MTU :	1492			
Connect mode select :	Always-on O Manual O Connect-on demand			

Step 4.1-Case 2. NETGEAR WGR614SS

- 1. Run the Internet Explorer and enter the <**Default Gateway**> found in Step 2 into the address field and press [**Enter**].
- Enter the user name and password when the router login window appears.
 Refer to the router user manual for user name and password.



3. Click <Setup>-<Basic Settings> on the left menu. Click <Setup Wizard> for automatic setup.

NETGE.	VIZARD 54 Mbps Wireless Router mode	St.WGR614v9
Setup Wizard Setup Basic Settings Wireless Settings Content Filtering	Basic Settings Does Your Infernet Connection Require A Login? O Yes O Ho	
Logs Block Sites Block Services Schedule	Account Name (I'Required) Domain Name (I'Required)	WGR614V9
Maintenance Router Status Attached Devices Backup Settings Set Password Router Upgrade Advanced Wireless Settings	Internet IP Address © Gel Dynamically From ISP © Use State: IP Address IP Address IP Submet Mark Gateway IP Address	66 188 116 164 255 254 0 66 188 116 1

Dynamic IP Address Environment

- 4. Select <Get Dynamically From ISP>.
- 5. Click [Apply] button.



Static IP Address Environment

- 4. Select < Use Static IP Address>.
- Enter <IP Address>, <IP Subnet Mask> and <Gateway IP Address>.
- 6. Click [Apply] button.

Internet IP Address				
C Get Dynamically From ISP				
Ose Static IP Address				
IP Address	10	.1	. 1	. 156
IP Subnet Mask	2.55	. 255	. 254	
Gateway IP Address	10	1	1	13

1.1	ndatina	
U	puating	

To check the connection

Once connected, status indicator < DHCPClient> is displayed on the top side of the settings screen.

Router Status		
Account Name	WGR614v6	
Internet Port	20-00-50-51-40-55	
IP Address DHCP	10.1.1.156 DHCPClient	
IP Subnet Mask Domain Name Server	255.255.254.0 10.1.1.6 10.1.1.7	

Step 4.1-Case 3. LINKSYS WRT54G

- 1. Run the Internet Explorer and enter the <**Default Gateway**> found in Step 2 into the address field and press [**Enter**].
- When the router login screen appears, enter the <<u>User name</u>> and <<u>Password</u>>.
 Refer to the router user manual for ID and password.

Connect to 192.	168.1.1 ?×
R	G
WRT54G	
User name:	2
Password:	
	Remember my password
	OK Cancel

- 3. Click <Internet Setup>.
- Select your <Internet Connection Type>. According to your selection of connection type, different settings screen will appear.

LINKSYS® A Division of Cisco Systems, Inc.	
Setup	Setup Wireless Security Access Restrictions
	Basic Setup DDNS
Internet Setup	
Internet Connection Type	Automatic Configuration - DHCP 🗸
Optional Settings (required by some ISPs)	Automatic Configuration - DHCP Static IP PPPoE PPTP LZTP Telstra Cable
	MTU : Auto 🗸
	Size : 1500

Dynamic IP Address Environment

- 5. Select < Automatic Configuration DHCP>.
- 6. Click [Save Settings] button on the bottom.



Static IP Address Environment

- 5. Select <Static IP>.
- Enter <Internet IP Address>, <Subnet Mask>, and <Gateway> assigned by your ISP.
- 7. Click [Save Settings] button on the bottom.

Internet Connection Type	Static IP	
internet connection Type	Internet IP Address :	192.168.0.66
	Subnet Mask :	255.255.255.0
	Gateway :	192.168.0.1
	Static DNS 1 :	168 126 63 1
	Static DNS 2 :	168.126.63.2
	Static DNS 3 :	0.0.0

ADSL Environment

- 5. Select <PPPoE>.
- Enter your <User Name> and <Password>. Ask your internet service provider for the username and password.
- 7. Click [Save Settings] button on the bottom.

Internet Cetur	
Internet Connection Type	PPPoE v
	User Name : a2000123
	Password :
	Connect on Demand : Max Idle Time S Min.
	Keep Alive : Redial Period 30 Sec.
Optional Settings	Router Name : WBT54G
(required by some ISPs)	Host Name :
	Domain Name :
	MTU : Auto
	Size : 1492
Notwork Sotup	
Router IP	Local IP Address : 192 168 1 1
	Subnet Mask : 255.255.0 V

8. Once finished, completion screen appears.

Settings are successful.	
Settings are successful.	

Step 4.1-Case 4. BELKIN F5D8236-4

1. Run the Internet Explorer and enter the <**Default Gateway**> found in Step 2 into the address field and press [**Enter**].



2. Click <WAN>-<Connection Type>. Select your internet service type.



Dynamic IP Address Environment

- Select <Dynamic> for the connection type and click [Next>] button.
- 4. Enter the <Host Name> and click [Apply Changes] button.
 - If your ISP provided specific DNS addresses, click <WAN>-<DNS> and enter the provided DNS addresses.

Static IP Address Environment

- 3. Select <**Static**> for the connection type and click [Next>] button.
- 4. Enter the <IP Address> assigned by your ISP.
- 5. Enter <Subnet Mask> and <ISP Gateway Address>.
- 6. Click [Apply Changes] button.





ADSL Environment

- Select <PPPoE> for the connection type and click [Next>] button.
- Enter user name and password. Ask your internet service provider for the user name and password.
- 5. Click [Apply Changes] button.

		Home Help Logout Internet Status: Not connected
LAN Settings	WAN > Connection Type > PI	PPoE
DHCP Cleet List Internet WAN	To enter your PPPoE settings, type in you	information below and click "Apply changes". Nore Info
Domescien Type	User Name >	
DNS VAC Address	Password >	
Wireleas	Retype Password >	
Chorenol and SSID		
Security	Get IP By DHCPS	<u>P</u>
/II) /I) Protected Setup	Service Name (Optional) >	
Use as Access Point		
VAD Address Control	MTU (500-1500) >	1454
Firewall		
Virtual Servers	Do not make changes to the birD setting.	uniess jour isp specificary requires a different setting than 1404.
Clert P Fiters	NOTE HID	
VAD Address Filtering	Disconnect after 5 minutes of a	a autority. Marca Inda
812	L. Disconnect analy minimums of it	o acong, nave neo

To check the connection

Once connected, status indicator <**Connection**> is displayed on the top side of the settings screen.



Step 4.1-Case 5. TRENDNET TEW-652BRP

- 1. Run the Internet Explorer and enter the <Default Gateway> found in Step 2 into the address field and press [Enter].
- Enter the user name and password when the router login window appears.
 Refer to the router user manual for ID and password.

	Wireless N Home Router TEW-652BRP
Log in to the roder User Name : Passwerd : Log in	
	Copyright © 2003 TRENDnet. All Rights Reserved.

- 3. Click <WAN> on the left menu of he settings screen.
- 4. Select your < Connection Type>.



Dynamic IP Address Environment

- 5. Select < DHCP Client or Fixed IP>.
- 6. Click < Obtain IP Automatically>.
 - If your ISP provided specific DNS addresses, click <WAN>-<DNS> and enter the provided DNS addresses.
- 7. Click [Apply] button on the bottom.



Static IP Address Environment

- 5. Select < DHCP Client or Fixed IP>.
- 6. Select <Specify IP>.
- 7. Enter the <IP Address>, <Subnet Mask>, and <Default Gateway>.
- 8. Enter <DNS1> and <DNS2>.
 - If your ISP provided specific DNS addresses, click <WAN>-<DNS> and enter the provided DNS addresses.
- 9. When finished, click [Apply] button on the bottom.



ADSL Environment

- 5. Select <PPPoE>.
- 6. Select appropriate method of obtaining <WAN IP> address.
- Enter the <Service Name>, <User Name> and <Password>. Ask your internet service provider for the user name and password.



To check the connection

 Click <Status>-<Device Information> on the left menu, and check the server's current status at <DHCP Server> under the LAN category.

When the connection establishes successfully, it displays <**Enabled DHCP Table**>.



Step 4.2 Checking the connection to the internet

- 1. Run the Internet Explorer on your computer.
- Enter the <Default Gateway> found in the Step 2 into the address field and press [Enter].

TRENDNET TEW-65258P Main LAN & DHCP Ser	ver - Microsoft Internet Explorer
	Wireless N Home Router TEW-6528RP
Login	
Log in to the router User Name : Password : Log in	

DHCP Renew

WAN

MAC Address 00:13:77:01:13:7A

Subnet Mask 255,255,255.0

IP 192.168.0.71

192.168.0.1

DNS 168 126 63 1 168 126 63 2

Connection

Default

Gateway

DHCP Client Connected DHCP Release



- 4. Check the WAN (Internet) connection status and WAN (Internet) IP address.
- When the connection establishes successfully, it displays <DHCP Client Connected> message and the WAN (Internet) IP shows an address.
- 6. Using the Internet Explorer, access Yahoo, Google and other well known web servers.
- 7. If the connection is properly set, Internet Explorer displays visiting web server's page correctly.
- 8. If connection fails, go to Step 4 and check again.



Step 5. Port forwarding

Port forwarding should be configured for accessing from the outside of the router network to a computer or DVR is connected to the router.

Configure your router's port forwarding as followings.

What is port forwarding?

It is a port mapping function of <**Router's WAN (Internet) IP: Port**> to <**DVR's IP: Port**>, that helps opening a communication channel between inside and outside of the private LAN

Since one DVR uses 2 ports for communication, port forwarding setup for both 2 ports should be configured.

If only <HTTP Port> is configured for port forwarding:

Accessing through the web browser is possible but video is not received since the *<***Device Port***>* for video data communication is not configured for port forwarding.

If only <Device Port> is configured for port forwarding:

Accessing through the web browser is impossible since the *HTTP Port*> for the communication is not configured for port forwarding.

In the below, port forwarding methods for each router are explained. For other routers not guided herein, refer to the user manual of the router.

Step 5.1 Port forwarding guide by routers

Run the Internet Explorer and enter the <**Default Gateway**> of the computer, which is the router's IP address found in Step 2, into the address field and pres [**Enter**].

Step 5.1-Case 1. D-LINK DIR-330

- 1. Select < Advanced >.
- 2. Set the <HTTP Port> for port forwarding.
 - 2-1. Check the <Checkbox> to select it.
 - 2⁻². Enter a name for the DVR port in the <Name> field.
 ex) DVR1
 - 2⁻³. In the <Public Port>, enter the <HTTP Port> defined in Step 3.
 - ex) 80~80
 - 2⁻⁴. In the <**Private Port**>, enter the <**HTTP Port**> defined in Step 3.
 - ex) 80~80
 - 2⁻⁵. In the <IP Address>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
 - 2⁻⁶. For the <Traffic Type>, select <Any>.
- 3. Set the < Device Port> for port forwarding.
 - $\label{eq:3-1} \textbf{3-1}. \quad \textbf{Check the } < \textbf{Checkbox} > \textbf{to select it.}$
 - 3⁻². Enter a name for the DVR port in the <Name> field.
 ex) DVR2
 - 3⁻³. In the <Public Port>, enter the <Device Port> defined in Step 3.
 - ex) 4520~4524
 - 3⁻⁴. In the <**Private Port**>, enter the <**Device Port**> defined in Step 3.
 - ex) 4520~4524
 - 3⁻⁵. In the <IP Address>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
- 4. After completion, click [Save Settings] button.

Step 5.1-Case 2. NETGEAR 614SS

- 1. Click < Port Forwarding / Port Triggering> in the left menu.
- 2. Select < Port Forwarding>.
- Set the <HTTP Port> for port forwarding.
 3⁻¹. Set the <Add Custom Service> for port forwarding.

Nease select the service ty Port Forwarding Port Triggering	pe
Service Name Age-of Empire	Server IP Address
# Service Name	Start Port End Port Server IP Address

PORT	PORT FORWARDING RULES :				
The Port Forwarding option is used to open a single port or a range of ports through your frewall and redirect data through those ports to a single PC on your network. Save Settings Don't Save Settings					
25 -	PORT FORWARD	ING RULES			
			Port		
	Name DVR1	Section Name	Public Port 80 ~ 80	Traffic Type	
1. 🗠	IP Address 192.168.1.200	Section Computer Name	Private Port 80 ~ 80	Schedule Always	

25 - P	25 - PORT FORWARDING RULES				
			Port		
. 🗖	Name DVR1	Application Name	Public Port 80 ~ 80	Traffic Type	
1. 🗹	IP Address 192.168.1.200	Section Computer Name	Private Port 80 ~ 80	Schedule Always	
	Name DVR2	Section Name	Public Port 4520 ~ 4524	TCP	
2. 🗹	IP Address 192.168.1.200	Section Computer Name	Private Port 4520 ∼ 4524	Schedule Always	

- 3⁻². Enter a name for the DVR port in the <Service Name> field.
 = ex) DVR1
- 3⁻³. Enter the <Starting Port> and <Ending Port> while matching to that of <HTTP Port> defined in Step 3.
 - ex) 80
- 3⁻⁴. In the <Server IP Address>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
- 3-5. Click [Apply] button to finish the setting.
- 4. Set the < Device Port> for port forwarding.
 - 4⁻¹. Click <Add Custom Service> button.
 - 4⁻². Enter a name for the DVR's <**Device Port**> in the <**Service Name**> field.
 - ex) DVR2
 - 4-3. Enter the <Start Port> and <End Port> while matching to that of <Device Port> defined in Step 3.
 - ex) 4520,4521,4522,4523,4524
 - 4⁻⁴. In the <**Server IP Address**>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
 - 4-5. Click [Apply] button to finish the setting.

Step 5.1-Case 3. LINKSYS WRT54G

- 1. Click < Applications & Gaming>.
- 2. Set the <HTTP Port> for port forwarding.
 - 2⁻¹. Enter a name for the DVR port in the <**Application**> field.
 ex) DVR1
 - 2⁻². In the <**Start**> and <**End**> fields, enter the <**HTTP Port**> defined in Step 3.
 - ex) 80
 - 2-3. Select [Both] for the <Protocol>.
 - 2⁻⁴. In the <IP Address>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
 - 2-5. Check the checkbox of <Enable> column for the specified port.
- 3. Set the < Device Port> for port forwarding.
 - 3⁻¹. Enter a name for the DVR port in the <**Application**> field.
 ex) DVR2
 - 3⁻². In the <Start> and <End> fields, enter the <Device Port> defined in Step 3.
 - 3⁻³. Select [Both] for the <Protocol>.
 - 3⁻⁴. In the <IP Address>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
 - 3^{-5} . Check the checkbox of $\langle Enable \rangle$ column for the specified port.

Service Name	DVR1
Service Type	TCP/UDP 💌
Starting Port	80 (1~65534)
Ending Port	80 (1~65534)
Server IP Address	192 168 1 200

Port	select the service typ Forwarding Triggering	be		
ervice Age-o	Name fEmpire	Server	IP Address	, Add
			Fair constant of the second	
#	Service Name	Start Port	End Port	Server IP Address
#	Service Name DVR1	Start Port 80	End Port 80	Server IP Address 10.0.0.200

Setup	Wirele	ss	Securit	ty /	Access	App & G	lications aming
Port Range F	orward	1	Port Trigg	gering 🚺	DMZ	QoS	;
			Port	Range			
Application	Star	t	End	Protocol	IP Address	s	Enable
dvr	80	to	80	Both 🗸	192.168.1.2	200	×
dvr1	4520	to	4524	Both 🗸	192.168.1.2	200	\checkmark
	0	to	0	Both 🗸	192.168.1.)	
	0	to	0	Both 🗸	192.168.1.)	
	0	to	0	Both 🗸	192.168.1.)	
	0	to	0	Both 🗸	192.168.1.)	
	0	to	0	Both 🗸	192.168.1.)	
	0	to	0	Both 🗸	192.168.1.)	
	0	to	0	Both 🗸	192.168.1.)	
	0	to	0	Both 🗸	192.168.1.)	
			Save	Settings	Cance	l Chai	nges

- 4. Click [Save Settings] button on the bottom.
- 5. Once finished, completion screen appears.



Firewall

Firewall > Virtual Servers

Add Active V

Clear entry 1

Step 5.1-Case 4. BELKIN F5D8236-4

1. Click <Firewall>-<Virtual Servers> on the left menu.

- 2. Set the <HTTP Port> for port forwarding.
 - 2⁻¹. Check the < Enable> checkbox to mark selected.
 - 2⁻². Enter a name for the DVR port in the <Description> field.
 ex) DVR1
 - 2⁻³. In the <Inbound port>, enter the <HTTP Port> defined in Step 3.
 - ex) 80
 - 2-4. For the <Type>, select [Any].
 - 2⁻⁵. In the <**Private IP address**>, enter the DVR's IP address defined in Step 3.
 ex) 192.168.1.200
 - 2⁻⁶. In the <Private port> field, enter the <HTTP Port> defined in Step 3.
 - ex) 80
- 3. Set the < Device Port> for port forwarding.
 - 3-1. Check the < Enable> checkbox to mark selected.
 - 3⁻². Enter a name for the DVR port in the <Description> field.
 ex) DVR2
 - 3-3. In the <Inbound port> fields, enter the <Device Port> defined in Step 3.
 - ex) 4520,4521,4522,4523,4524
 - 3-4. For the <Type>, select [Any].
 - 3⁻⁵. In the <**Private IP address**>, enter the DVR's IP address defined in Step 3.
 ex) 192.168.1.200
 - $\label{eq:3.6} \textbf{3-6}. \quad \text{In the } < \textbf{Private port} > \text{ fields, enter the } < \textbf{Device Port} > \text{ defined in Step 3.} \\ \textbf{3-6}. \quad \textbf{1} \text{ for a star port} > \textbf{1} \text{ for a star po$
 - ex) 4520,4521,4522,4523,4524
- 4. Once finished, click [Apply Changes] button.

his:	function	will allow you to r	oute external (Inter	net) calls for servi	ices such as a web se	erver (port 80), FTP
erve	er (Port	21), or other appli	cations through you	ır Routerto your in	nternal network. More	Info
		Clear Charges	5	Apply Changes		
hh	Active	Worlds				Add
lear	entry	1		_		Clear
	Enable	Description	Inbound port	Type	Private IP address	Private port
1		DVR1	80	Any 💌	192.168.2. 200	80
z		DVR2	4524	Any 💌	192.168.2. 200	4524
3				Any 💌	192.168.2.	
			-	-		

This function will allow you to route external (Internet) calls for services such as a web server (port 80), FTP server (Port 21), or other applications through your Routerto your internal network. More info

TCF

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192.168.2

192.168.2

- 192.168.

Clear Charges Apply Charges

18 🗖 🗍		TCP 192 168 2
19 🗖		TCP 192.168.2
20 🗂 🗍		TCP 192.168.2
	Clear Changes	Apply Changes

Step 5.1-Case 5. TRENDNET TEW-652BRP

- 1. Click <Access>-<Virtual Server> on the left menu.
- 2. Set the <HTTP Port> for port forwarding.
 - 2⁻¹. Select [Enable] for the item <Enable>.
 - 2⁻². Enter a name for the DVR port in the <Name> field.
 ex) DVR1
 - 2⁻³. Select [TCP] for the item < Protocol>.
 - 2⁻⁴. In the <**Private Port**> and <**Public Port**> fields, enter the <**HTTP Port**> defined in Step 3.
 - ex) 80
 - 2⁻⁵. In the <LAN Server>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
 - 2⁻⁶. Click [ADD] button.
- 3. Set the < Device Port> for port forwarding.
 - **3**⁻¹. Select [**Enable**] for the item <**Enable**>.
 - 3⁻². Enter a name for the DVR port in the <Name> field.
 ex) DVR2
 - **3**-3. Select [**TCP**] for the item <**Protocol**>.
 - **3**⁻⁴. In the <**Private Port**> and <**Public Port**> fields, enter the <**Device Port**> defined in Step 3.
 - ex) 4520,4521,4522,4523,4524
 - 3⁻⁵. In the <LAN Server>, enter the DVR's IP address defined in Step 3.
 - ex) 192.168.1.200
 - 3⁻⁶. Click [ADD] button.
- 4. Settings completed.

Step 5.2 Checking port forwarding on your computer

- 1. Confirm the router's <WAN (Internet) IP> which has been checked in Step 4.2 again.
- 2. Confirm the DVR's <HTTP Port> checked in Step 3.1 again.
- 3. Run the Internet Explorer and enter http://<WAN (Internet) IP>:<HTTP Port> into the address field and press [Enter].
- 4. DVR's Web Viewer screen appears if port forwarding configuration has been properly set.
- 5. If you cannot access to the Web Viewer or accessed but no video is displayed, go to the Step 5.1 and check again.

 If only <HTTP Port> is configured for port forwarding: Accessing through the web browser is possible but video is not received since the <Device Port> for video data communication is not configured for port forwarding. If only <Device Port> is configured for port forwarding: Accessing through the web browser is impossible since the <HTTP Port> for the communication is not configured for port forwarding.

	DNET	Wireless N Home Route TEW-6528
Main	Virtual Serve	er HELP
Wireless	Enable	Enable Disabled
Status	Name	
Routing	Protocol	TCP v
Access	Private Port	80
Filter	Public Port	80
Special AP	LAN Server	
DMZ Firewall Settings		Add Update Delete Cancel



Step 6. Accessing DVR using DDNS service in dynamic IP environment

Since the router's WAN IP address may vary in xDSL/Cable connections hiring dynamic IP allocations, DDNS (Dynamic Domain Name Server) service is provided for accessing the DVR with fixed DDNS address in dynamic IP network environments.

Step 6.1 DVR DDNS configuration

- Use the up/down buttons (▲▼) in <Network> window to move to <DDNS>, and press [ENTER] button.
- 2. Use virtual keyboard to enter user inputs.
 - Refer to "Using Virtual Keyboard".
- If selected <OFF> or <iPOLiS>, input fields are deactivated.
- If you select <iPOLiS>, the "DDNS Host Address" item will be displayed.
 - Type your set ID in <**Product ID**> field.
 More specific information is in "iPOLiS DDNS Setting".
 - Select <Use> in <Quick Connect> menu. After finishing "iPOLiS
 DDNS Setting", you can connect your DVR set with the address <http://www.samsungipolis.com/ SDRC5300HOMEDVR>.
 - The router used should support uPNP Port Forwarding function.
 - Note that uPNP Port Forwarding does not support UDP protocol.
 - If the program fails to read uPNP Port Forwarding List, try again after restarting the computer and router.
- 3. When the DDNS setup is done, press < OK>.

Step 6.2 Accessing DVR using DDNS address

1. Run the Internet Explorer and enter the DDNS address found in Step 6.1 into the address field end press [Enter].



🖉 Customize Your Settings - Windows Internet Explorer

Customize Your Settings

4

http://www.samsungipolis.com/SDRC5300HOMEDVR

DVR's Web Viewer screen appears. If failed with accessing, go to the Step 6.1 and check the settings

again.

It may take up to 10 minutes for updating the router's IP address recorded in the DDNS server. When failed with accessing, retry after 10 minutes.
 DVR reports its IP address to the DDNS server at every 10 minutes.

Configuration completed.

By remembering the DDNS address, ID and password, you can connect to your DVR from any computer that is connected to the internet.

For further operating information, refer to the user manual.

DDNS	
DDNS Site	iPOLIS
Server Name	www.samsungip
Product ID	SDRC5300HOMEDVR
Quick Connect	Not Use 🔽 Use
DDNS Host Address	http://www.samsungipolis.com/SDRC5300HOMEDVR
	OK Cancel