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Port Forwarding of Common Routers

Before you set up port forwarding manually, please check 2 things before you do it.

1. Make sure you know the router's brand, access URL, username and password. If you do not know them, please find help us the provider of the router, such as your ISP.

2. Find your camera's IP address and port, you could find them from network configuration.

BACK	Networ	rk Configuration
System	Device Name	TENVIS
Network	P Address	192.168.1.239
IP Config	Net Mask Default Gateway	255.255.255.0
WiFi	DNS Server	192.168.1.1
DDNS	Web Port (default 80)	81 New port born after reboot
Alarm Setting	OK	Cancel

	Basic Network Settings		
Obtain IP from DHCP Server			
IP Addr	192.168.1.239		
Subnet Mask 255.255.255.0			
Gateway	192.168.1.1		
DNS Server	192.168.1.1		
Http Port 81			
Submit Refresh			

The IP and port of the camera is very important for port forwarding.

For 2wire Router

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. The default URL is http://192.168.1.1

2. Click the Firewall Settings button, and then click Add a new user-defined application

Summa	ary - Firewall Settings Advanced	Settings	🛨 HOME Site I
tit	Eirowall Sattingo		
.un	r newan Settings		
Settin	gs		
pinhol To do applic need l	es. Opening trewail pinholes is also this, associate the desired applicatio ation, you can create a user-defined a o know protocol and port information.	known as opening frewall ports or triewall port forwarding, in with the computer below. If you cannot find a listing for you application profile. (To create a user-defined profile, you will .)	ur <u>settings</u>
Cr Cr Cr Cr	lect a computer loose the computer that will host app it firewall settings for this computer Maximum protection – Disallow ur Allow individual application(s) – Cl	lications through the firewall:	ih the firewall to this compute
Cr Cr Cr Ed	lect a computer loose the computer that will host app it firewall settings for this computer Maximum protection – Disallow un Allow individual application(s) – Cl Click ADD to add it to the Hosted Ap All applications	iications through the firewall:)h the firewall to this compute
See Cr	lect a computer mose the computer that will host app it firewall settings for this computer Maximum protection – Disallow ur Allow individual application(s) – Cl Click ADD to add it to the Hosted Ap All applications PF1 Age of Empires Age of Zings Age of Xings Age of Wonders Aliens vs Predator Anarchy Online Asheron's Call BattleCom Battlefield Communicator	lications through the firewall:	h the firewall to this compute

3. Add a new user-defined application.

dit Applicat	1		
	ion		
Settings			
Profile Name			1
Enter a name for the	application profile	that you are creating.	
Application Name:	IP Camera		-
Definition			
ADD DEFINITION to	add the definition to	the Definition List. If th	16 Vou will
ADD DEFINITION to application requires need to add multiple Note: In some rare ins changes in addition to appears in the applicat	add the definition to multiple ports or bo definitions. tances, certain applic simple port forwarding ion type menu below,	o the Definition List. If the oth TCP and UDP ports ation types require specia b. If the application you are it is recommended that yo	ne , you will lized firewall e adding u select it.
ADD DEFINITION to application requires need to add multiple Note: In some rare ins changes in addition to appears in the applicat Protocol:	add the definition to multiple ports or bo definitions. tances, certain applic simple port forwarding ion type menu below, TCP	o the Definition List. If the oth TCP and UDP ports ation types require specials. If the application you are it is recommended that yo C UDP	ne , you will lized firewall e adding u select it.
ADD DEFINITION to application requires need to add multiple Note: In some rare ins changes in addition to appears in the applicat Protocol: Port (or Range):	add the definition to multiple ports or bo definitions. tances, certain applic simple port forwarding ion type menu below, TCP From: 81	o the Definition List. If the oth TCP and UDP ports ation types require special filter application you are it is recommended that yo UDP	ne e , you will lized firewall e adding u select it.
ADD DEFINITION to application requires need to add multiple Note: In some rare ins changes in addition to appears in the applicat Protocol: Port (or Range): Protocol Timeout	add the definition to multiple ports or bo definitions. stances, certain applic simple port forwarding ion type menu below, TCP From: 81 86400	the Definition List. If the oth TCP and UDP ports ation types require special fit is recommended that yo UDP To: 81 TCP default 86400	ne e , you will lized firewall e adding u select it.
ADD DEFINITION to application requires need to add multiple Note: In some rare ins changes in addition to appears in the applicat Protocol: Port (or Range): Protocol Timeout (seconds):	add the definition to multiple ports or bo e definitions. simple port forwarding ion type menu below, TCP From: 81 86400	the Definition List. If the oth TCP and UDP ports ation types require specials of the application you are it is recommended that you UDP To: 81 TCP default 86400 UDP default 600	ne , you will lized firewall e adding u select it.
ADD DEFINITION to application requires need to add multiple Note: In some rare ins changes in addition to appears in the applicat Protocol: Port (or Range): Protocol Timeout (seconds): Map to Host Port:	add the definition to multiple ports or bo definitions. stances, certain applic simple port forwarding ion type menu below,	the Definition List. If the oth TCP and UDP ports ation types require specials. If the application you are it is recommended that you UDP To: 81 TCP default 86400 UDP default 86400 UDP default enter same por defined above.	ne , you will lized firewall e adding u select it.

Application Name: It is just a name whatever you want for port forwarding, Protocol: TCP Port for range: port of the camera Protocol timeout: 86400 Click Add.

4. Sign the application for the IP Camera



Select Computer

Select the IP camera in the list. You could choose the IP address or input the camera's IP address; it depends on the router's model.

Select allow individual application

Select User-defined

Find your application you just added.

Click Add

For Actiontec Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For theses routers, in general, it is http://192.168.0.1

2. Click Advanced Port Forwarding



IP Port Range: The camera's port.Protocol: TCPIP Address: The camera's IP address.Click Apply

For Apple Airport Extreme or Time Capsule

- 1. Go to your finder and type in Airport in the search and find your Airport Utility program.
- 2. If it prompts you to be configured manually or not select Manual
- 3. Find the Advanced Tab at the top and select it
- 4. Choose the Port Mapping option here

	AirPort Utility - Airport Base Statio	on Q Setting Name Find a setting
Airport Base Station	Logging & Statistics Por If you want computers outside your ne your network, click Add (+) and enter	t Mapping MobileMe IPv6 etwork to access specific devices on a service and port.
	Allow:	Description Camera 1 Camera 2 ✓ Camera 3 Wireless ✓ Camera 2 Wireless ✓ Camera 1 Wireless ✓ Lamera 1 Wireless
	(?) Assist Me	Revert Update

Add a service for IP camera.

Choose a service from the pop- address and ports that you war	-up menu or enter the public and t It to map between.	he private l
Service:	Choose a service	•
Public UDP Port(s):	81	
Public TCP Port(s):	81	and a state
Private IP Address:	192. 168. 1. 239	
Private UDP Port(s):	81	
Private TCP Port(s):	81	

Service: Choose a service Public UDP Ports: the camera's port Public TCP ports: the camera's port Private IP Address: the camera's IP address Private UDP ports: the camera's port Private TCP ports: the camera's port

Enter the description for this p	ort mapping entry.
Description:	Camera
	Advertise globally using Bonjour
Service Nan	ne:
Service Typ	be:
When you are finished, click Do	one to save your port mapping entry.



Be sure to click on the Update button after making these changes to upload them to your Airport.

For BT BTHomeHub Routers

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. For BT routers, in general, it is http://192.168.1.254

2. Click Advanced Settings and Continue to Advanced Settings

BT	Hub						Help A-Z
	Home	Servio	es 📃	Settings		Troubleshoo	ting
v	B1 Vireless Pow Sav	BT er Access e Control	Port Forwarding	Admin Password	Int	ernet	Advanced Settings

BT Hub)			Help A-Z
	Home	Services	Settings	Troubleshooting
Advance	d Settings			
Your BT Hu or busines	b's settings are pre s networks.	e-set and don't need to b	e adjusted for general use	e for most Broadband access
However, y	you can use your H	ub's Advanced Settings to	set up specific application	ns or complex networks.
Continue	to Advanced Settir	ngs		Return to Basic Settings

3. Click Supported Applications and add a Application

BT Hub Help A-Z					
Home	Services	Settings	Troubleshooting		
Wireless Broadband	d ^{Static} IP	Business Port Network Forwarding	System Basic Settings		
	Configuration	Supported Applications	UPnP DMZ Firewall		
Supported Games & Applications					
defined yourself. Each game or application can be assigned to only one device on your business network.					
Game or Application Assigned to					
		6	Add new game or application		

BT Hub					Help A-Z
Home	Ser	vices	Settings	Troublesho	oting
Wireless	Broadband Stati IP	c Business Network	Port Forwarding	System	Basic Settings
	Configu	iration Suppo	ted Applications	UPnP DMZ	Firewall
Add User Define	d Game or Applica	tion			
Game/application	name:	IP Camera			
Copy an existing g	ame/application:	Select game	No or application		
Game or Applica	tion Definition				
A game or application translated into a difference of the second	on is made up of one o ferent internal (private	r more TCP/UDP p network) port ra	ort ranges. Each in nge.	coming port range	e can be
Protocol	Port Range	Transla	ite To		
Any 🔛	81 - 81	81	- 81		Add
No port maps define	ed for this game or app	lication			
				Apply	Cancel

Game/application name: It is just a name whatever you want for port forwarding, **Protocol:** Any or TCP

Port Range: The port of the camera

4. Click Configuration, Select the application you just added in Game or Application List. Select User Defended IP Address in the **Device** List.

Enter the camera's IP address into **Device IP Address**.

Home Services Settings Troubles Wireless Broadband Static Business Port Forwarding System Configuration Supported Applications UPnP DM2 Port Forwarding such as games consoles, and applications, such as server that data coming from the Internet gets to the device that needs to use it. When Port Forward your BT Hub will send all incoming traffic for that application or game to the chosen device.	Help A-J
Wireless Broadband Static Business Port Forwarding System Configuration Supported Applications UPnP DM2 Port Forwarding Port Forwarding is used by devices, such as games consoles, and applications, such as server that data coming from the Internet gets to the device that needs to use it. When Port Forward our BT Hub will send all incoming traffic for that application or game to the chosen device.	hooting
Configuration Supported Applications UPnP DM2 Port Forwarding Port Forwarding is used by devices, such as games consoles, and applications, such as server hat data coming from the Internet gets to the device that needs to use it. When Port Forward your BT Hub will send all incoming traffic for that application or game to the chosen device.	Basic Settings
Port Forwarding Port Forwarding is used by devices, such as games consoles, and applications, such as server hat data coming from the Internet gets to the device that needs to use it. When Port Forwar rour BT Hub will send all incoming traffic for that application or game to the chosen device.	Firewall
	s, to make sure Jing is enabled,
Game or Application: Device:	
ipcamera User Defined IP Address	
Device IP Address: 192.168.1.239	Add

For D-link Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For D-link routers, in general, it is http://192.168.0.1

2. Click Advanced --- Virtual Server

SETUP	1 ADVANCED	TOOLS	STATUS		
VIRTUAL SERVE	R				
The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers. Save Settings Don't Save Settings					
24VIRTUAL S	ERVERS LIST				
2		O Port Traff	4 O		
Name IP Camera	< Application Na	me v Public Pro	otocol Schedule P + Always +		
IP Address 192.168.0, 239	< Computer Nan	ne Private 81	81 Inbound Filter		

Name: It is just a name whatever you want for port forwarding, Public: the camera's port Private: the camera's port

Protocol: TCP

Schedule: Always Inbound Filter: Allow All Click Save Setings

For FRITZ!! Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser to login your camera. By default the IP address should be set to http://192.168.178.1

2. Click the Internet link and then click **Portfreigabe**. In the **portfreigabe**, click **Neue Portfreigabe**.

Übersicht	Portfreigabe
Internet Online-Monitor Zugangsdaten Kindersicherung	An FRITZIBox angeschlossene Computer sind sicher vor unerwünschten Zugriffen aus dem Internet. Für einige Anwendungen wie z.B. Online-Spiele oder das Filesharing-Programm eMule muss Ihr Computer jedoch für andere Teilnehmer des Internets erreichbar sein. Durch Portfreigaben erlauben Sie solche Verbindungen. Liste der Portfreigaben
Freigaben DSL-Informationen	Aktiv Bezeichnung Protokoll Port an Computer an Port Es sind keine Portfreigaben eingerichtet.
Telefonie	
Heimnetz Mil AN	
System	Übernehmen Abbrechen Aktualisieren Hilfe
Assistenten Einrichten, Update, Telefone	

3. Do port forwarding

Übersicht	Portfreigabe	
Internet	Portfreigabe aktiv für Andere Anwendungen	
Zugangsdaten	Bezeichnung ipcamera	
Kindersicherung	Protokoll TCP	
Freigaben	von Port 81 bis Port 81	
DSL-Informationen	an Computer manuelle Eingabe der IP-Adresse 💌	
Telefonie	an IP-Adresse 192.168.1.239	
Heimnetz WLAN	an Port 81	
System		OK

Select Andere Anwendungen from the Portfreigabe aktiv fur drop down box.

Bezeichnung: A name, whatever you want

Protokoll: TCP

von Port: The camera's port

bis Port: The camera's port

an Computer: manuelle Eingabe der IP-Adresse

an IP-Adresse: The camera's IP address

an Port: The camera's port

For Huawei Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.1

	Advanced > NAT > Port Mapping				
Status	ALG	DMZ	Port Mapping	Port Triggering	
Basic	Port Mapping Interface Protocol F	Remote Host Externa	Port Internal Port Internal F	New Remov fost Mapping Name	En
Advanced	Settings Typ	e: 🖲 Cust	mization O Application Please	e Choose	
Routing	Interface;	nas_0_38 🕶	Protocol:	TCP -	
Firewall	External port:	81	Internal port	192. 168. 1. 239	
NAT	Internal host	81	Remote host		
IGMP	Mapping name:	TENVIS			
QOS				Su	ıbm

2. Click Advanced --- NAT, and click Port Mapping

Name: Whatever you want, it Is just a name, eg: TENVIS IP Camera Public: the camera's http port, eg: 81 Private: the camera's http port, eg: 81 Protocol: TCP Schedule: Always Inbound Filter: Allow All Click Save Setings

For Linksys W Series Routers

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. For these Series routers, in general, it is http://192.168.1.1

2. Click Application & Gaming and click Single Port Forwarding

Applicati		0	Wireless-G Broadband Router with Ran					h Ranç	
Gami	ons ng	Ċ4		Setup	Wireless	Security	Access Restrictions	Applications Gaming	& Adr
				Single Port Forw	arding F	Port Range Fo	rwarding Port Ra	inge Triggering	
Single Port F	orwar	ding							
Applica	ation Na	ame		External Port	Internal Port	Protocol	To IP address	Enabled	H
	None	•					192 . 168 . 1 . 0		
	None	•					192 . 168 . 1 . 0		
	None	•					192 . 168 . 1 . 0		
	None	•					192 . 168 . 1 . 0		
	None	•					192 . 168 . 1 . 0		
IP Camer	a			81	81	тср 🔻	192 . 168 . 1 . 239]	nable
						тср 🔻	192 . 168 . 1 . 0		
						тср 🔻	192 . 168 . 1 . 0		
						тср 🔻	192 . 168 . 1 . 0		

Application Game: It is just a name whatever you want for port forwarding, **External Port:** the camera's port

Internal Port: the camera's port Protocol: TCP To IP address: the camera's IP address Enabled: Enable

For Movistar Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.1

2. Click Firewall – Port Forwarding

ТЕСОМ	ADSL Router					
Site contents: Status LAN Wireless WAN Services Firewall Port Filter MAC Filtering URL Blocking Domain Blocking DMZ Advance Diagnostic	Port Forwarding Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall. Port Forwarding: C Disable © Enable Apply Changes Protocol: Both Comment: TENVIS F Enable Remote IP Address: Public Port: 81 - 81 Local IP Address: 192.188.1.239 Local Port: 81 - 81 Interface: ppp0					
Statistics	Current Port Forwarding Table:					
	Select Local IP Address Protocol Local Port Comment Enable Remote Public Interface					
	□ 192.168.1.33 TCP+UDP 23023 Enable 23023 ppp0					
	Delete Selected Delete All					

Comment: It is just a name whatever you want for port forwarding,

Public Port: the camera's port Local Port: the camera's port Remote IP Address: <u>N/A</u> Local IP Address: the camera's IP address Click Add

For Netgear Routers 1

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.254

2. Click **Port Forwarding/Port Triggering** or **Port Forwarding**. Select **Port Forwarding** and select **Add Custom Service**

SMART	A R WIZARD 54 Mbps Wireless Router model WGR614-9
 Schedule Maintenance Router Status Attached Devices Backup Settings Set Password Router Upgrade Advanced Wireless Settings Wireless Repeating Function Port Forwarding / Port Triggering WAN Setup LAN Setup 	Port Forwarding / Port Triggering Please select the service type Port Forwarding Port Forwarding Port Forwarding Port Triggering Service Name Server IP Address Age-of-Empire I92 I68 I Add # Service Name Start Port End Port Server IP Address Edit Service Add Custom Service

Or

Setup Basic Settings	Port Forwarding
 Wireless Settings WPS Settings Wi-Fi Multimedia Maintenance 	Active Forwarding Rules Name Start Port End Port Protocol Local IP Address
Gateway Status Connection Set Password	Choose Predefined Service Service -SERVICES-
Backup	Add Custom Rules
Diagnostics	Name Start Port End Port Protocol Local IP Address
Advanced	Both 🕶 192.168.0 . I
 Wireless Settings Dynamic DNS MAC Filtering IP Filtering Port Blocking Port Forwarding Port Triggering 	Add Delete Reset

Setup Basic Settings	Port Forwarding
WIPEESS Settings WPS Settings Wi-Fi Multimedia Maintenance	Active Forwarding Rules Name Start Port End Port Protocol Local IP Address
 Gateway Status Connection Set Password 	Choose Predefined Service Service -SERMCES-
 Backup Event Log 	Add Custom Rules Name Start Port End Port Protocol Local IP Address
Advanced	Both 💌 192.168.0 . 🕅
Dynamic DNS MAC Filtering IP Filtering Port Blocking	Add Delete Reset
Port Forwarding Port Triggering	

3. Do port forwarding

NETGEAR SMARTWIZARD of Mbps Wireless Router model WGR						
Block Services Schedule E mail	Ports - Custom Ser	rvices				
Maintenance	Service Name	IP Camera				
Router Status	Service Type	TCP/UDP .				
Attached Devices	Starting Port	81 (1~65534)				
Backup Settings	Ending Port	81 (1~65534)				
Set Password	Server IP Address	192 168 1 , 239				
 Router Upgrade Advanced Wireless Settings 	-	Apply Cancel				
• Port Forwarding / Port Triggering						
WAN Setup						

Setup Basic Settings	Port For	wardin	g		
Wireless Settings WPS Settings Wi-Fi Multimedia Maintenance	 Name S	Activ Start Port I	ve Forward End Port F	ding Rules Protocol Lo	cal IP Address
 Gateway Status Connection Set Password Backup 	Choose Pr Service	edefined SERVICES m Rules	Service	2	-
 Event Log Diagnostics 	Name	Start Port	End Port	Protocol	Local IP Address
Advanced Wireless Settings Dynamic DNS MAC Filtering IP Filtering Port Blocking Port Forwarding Port Triggering	IPC amera	81	81	Add	192.168. 1 , 239 Delete Reset

Service Name: It is just a name whatever you want for port forwarding,

Starting Port: port of the camera

Ending Port: port of the camera

Service IP Address: IP of the camera

For Netgear Routers 2

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.254

2. Click the Services link and Click Add Custom Service button.

Setup Wizard	Services		
Sotup Basic Settings	Service Table	Service Type	
ADSL Settings Wireless Settings Content Filtering		Add Custom Service Edi	l Service
Block Sites Firewall Rules			
 Services Schedule E-mail 			

3. Add a ip camera service

 Setup Wizard 	Add Services	
Setup Basic Settings ADSL Settings Wireless Settings	Service Definition Name: Type:	IP camera TCP
Content Filtering Logs Block Sites Firewall Rules	Start Port.	Apply Cancel
Services Schedule		

Name: Whatever you want

Type: TCP

Start Port: The camera's port

End Port: The camera's port

4. Click the **Firewall Rules** link, click the **Inbound Services Add** button.

District Constants	Outbound Services					
ADCL Settings	#	Enable	Service Name	Action		LAN Users
ADSL Settings	Default	Yes	Any	ALLOW always	5 01.0	Any
atent Filtering				mana I was a la mana	I merconorma	
oqs				Add Edit Move	Delete	
Block Sites	nbound Services		1000 M 1010 D 1010 001	-Contraction 1		
irewall Rules	g	Enable	Service Name	Action	LAN	I Server IP addres
Services	Default	Yes	Алу	BLOCK always		Any
Schedule				Add Edit Move	Delete	
				rod con more	Derete	
mail						
i-mail Intenance	nstant Messaging (IM)	Ports				
-mail Intenance Router Status	nstant Messaging (IM) Close IM Ports	Ports				
-mail Intenance Router Status Attached Devices	nstant Messaging (IM) Close IM Ports Open IM Ports(IM po) Ports	efault)			
-mail intenance Router Status Attached Devices Backup Settings	nstant Messaging (IM) Close IM Ports Open IM Ports(IM po) Ports	efault)	and a second	272 T	

5. Add the Service you added before into firewall rules

Setup Wizard	Inbound Services	
Setup Basic Settings ADSL Settings Wireless Settings Content Filtering Logs Block Sites Firewall Rules	Service IP Camera Any(ALL) Action ALLOW always Send to LAN Server 192 .168 .1 .239 WAN Users Any Any Any start	- -
Services Schedule E-mail Maintenance Router Status Attached Devices	Apply Cancel	Ð

Service: Select the service you added in Service settings Action: Allow always Send to Lan Server: The IP of the IP Camera Wan User: Any Log: Always or None

For Netgear Routers 3

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.254

2. Click the **Port Forwarding / Port Trriggering** link and Click **Add Custom Service** button.

Setup Wizard	Port	Forv	varding / Port Triggering		
Setup Basic Settings Wireless Settings Content Filtering	Please Please Po Po	e selec rt Forw rt Trigg	c t the service type varding gering		
 Logs Block Sites 	Servic	e Nam	e	Server IP Ad	Idress
Block Services	AIM		×	192 . 168	3.1.
Schedule					
E-mail		#	Service Name	Start Port	End Port
Maintenance	0	1	utorrent	6821	6821
Router Status	0	2	AIM	5190	5190
Attached Devices	0	3	DC	6789	6789
Backup Settings	-				
Set Password			Edit	Service Dele	te Service
Router Upgrade				Add Custom Con	
Advanced				Add Custom Ser	/ice
Wireless Settings					
 Port Forwarding / Port Triggering 					
WAN Setup					
LAN IP Setup					
Dynamic DNS					

3. Add a customer service for the camera

• Setup Wizard	Ports - Custom Services
Setup Basic Settings Wireless Settings Content Filtering Logs Block Sites Block Services Schedule Email	Service Name ip camera Service Type TCP/UDP Starting Port 81 (1~65534) Ending Port 81 (1~65534) Server IP Address 192 168 1 239 Apply Cancel
Maintenance Router Status	

Name: It is just a name whatever you want for port forwarding,

Type: TCP

Start Port: The camera's port

End Port: The camera's port

Server IP Address: The camera's IP address

For O2 router

1. Click http://192.168.1.254 If you are prompted for a login the username is "Administrator" and the password is the serial number of your router (printed on its underside, excluding the bit in brackets).

2. Click Toolbox > Game & Application Sharing > Create a new game or application.



3. Enter the name of your application, e.g. IP Camera, click "Manual Entry of Port Maps", then Next.

New Game or Application				
Name:	IP Camera			
Select how you want to d	efine the new game or application.			
0	Clone Existing Game or Application ABC (Another Bittorent Client)			
۲	Manual Entry of Port Maps			
	Next Cancel			

4. In the list below Protocol, select the protocol of your application (TCP). In the two boxes below "Port Range", enter the port number of your camera, and then click Add. Repeat this step for all the ports you need forwarded.

Protoc	col Port Range	Translate To Trigger Protocol Trigger Port	
		No port maps defined for this game or application.	
TCP	 81 to 81 	Any 💌	Add

5. Click Assign a game or application to a local network device.



6. Select your newly created application in "Game or Application", eg: "IP Camera" select your device in Device or select User Define and input the camera's IP address, eg: "192.168.1.239", then click Add.

No games or applications assigned. IP Camera User Define Add	Game or Application	Device	Log
IP Camera 🔍 User Define 💽 🗖 Add		No games or applications assigned.	
	IP Camera	User Define	Add
IP 192.168.1.239		IP 192.168.1.239	

For Sky / Sagmen Routers

10

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For Sky / Sagmen routers, in general, it is http://192.168.0.1

2. Click SECURITY --- SERVICE, and click ADD CUSTOM SERVICE

SETUP SECUR	RTY MAINTENANCE ADVANCED sites firewall rules <u>services</u> s BAND SETUP	CHEDULE
SERVICES	0	
#	Service Type	

3. Add a Custom Service

SETUP SECURITY MAINTENANCE ADVANCED LOGS BLOCK SITES FIREWALL RULES SERVICES SCHEDULE BROADBAND SETUP				
SERVICES - ADD CUSTOM SERVICE - PORT FORWARDING				
Service Definition Name: Type: Start Port: Finish Port:	TENVIS TCP 81 81			
	APPLY			

Name: It is just a name whatever you want for port forwarding,

Start Port: the camera's port

Finish port: the camera's port1

Type: TCP

Click APPLY

4. Click SECURITY – FIREWALL RULES, add the service to the camera

SETUP	SECURITY	MAINTENANCE	ADVANCED			
LOGS	BLOCK SITES	FIREWALL RU	LES SERVICE	S SCHEDULE		
BROADBAND SETUP						

FIREWALL RULES - INBOUND SERVICES

Service	TENVIS	(81:81)		-
Action	ALLOW	always	•••	
Send to LAN Server:	192	. 168	. 0	. 239
WAN Users	Any			
Start:	0].0].0	. 0
Finish:	0].0].0	. 0
Log	Never			



Service: Select the service you just added. Action: ALLOW always Send to LAN Server: The camera's IP address WAN Users: Any Log: Never

Click APPLY

For Speedport Routers 1

1. Login your router. Click Netzwerk and NAT & Portregeln.

the real for real	Netzwerk	
- Charlesile	Netzwerkeinstellungen	
> Startseite	>> Internetzugang	T-Online
ASSISTENT	>> LAN	IP-Adresse: 192.168.2.1
> Schritt für Schritt	>> DHCP-Funktion	Ein
	>> Wireless LAN (WLAN)	Aus
KONFIGURATION	>> Repeater	
Netzwerk	>> PPPoE Pass-Through	Aus
Telefonie	>> NAT & Portregeln	Ein
	>> Dynamisches DNS	Aus
STATUS		
Übersicht		
> Details		

2. Click Neue Regel anlegen

·· T ··Com·	Speedport W 701V	
MENO	Netzwerk / NAT & Portregeln NAT >> NAT Einstellungen	NAT eingeschaltet
ASSISTENT > Schritt für Schritt KONFIGURATION	Portregeln >> Neue Regel anlegen	
> Netzwerk > Telefonie		
> Übersicht > Details		

3. Set port forwarding.

173 E3 E3 E3	× · · ·		
	Bezeichnung:	IP Camera	Aktiv
> Startseite	IP-Adresse:	192.168.1.239	0
Unitedit	Protokoli:	TCP 💌	
ASSISTENT			
> Schritt für Schritt	Port-Übersicht.	Anzeigen & aktualisieren]
KONFIGURATION			
KONFIGURATION > Sicherheit	Umgeleitete Por	ts - Öffentlich	
KONFIGURATION > Sicherheit > Netzwerk	Umgeleitete Por Ports: 81	ts - Öffentlich	
KONFIGURATION > Sicherheit > Netzwerk > Telefonie	Umgeleitete Por Ports: 81	ts - Öffentlich	
KONFIGURATION > Sicherheit <mark>> Netzwerk</mark> > Telefonie	Umgeleitete Por Ports: 81 Umgeleitete Por	ts - Öffentlich ts - Private Client	
KONFIGURATION > Sicherheit > Netzwerk > Telefonie STATUS	Umgeleitete Por Ports: 81 Umgeleitete Por Ports: 81	ts - Öffentlich ts - Private Client	
KONFIGURATION > Sicherheit > Netzwerk > Telefonie STATUS > Übersicht	Umgeleitete Por Ports: 81 Umgeleitete Por Ports: 81	ts - Öffentlich ts - Private Client	

Bezeichnung: A name for port forwarding IP-Adresse: The camera's IP address Protokoll: TCP Ports: The camera's port Ports: The camera's port

4. Then the camera has been forwarded to Internet.

·· T ··Com·	Speedport W 701V	
MENU > Startseite	Netzwerk / NAT & Portregeln NAT >> NAT Einstellungen	NAT eingeschaltet
ASSISTENT > Schritt für Schritt	Portregeln	
KONFIGURATION	>> Neue Regel anlegen >> IP Camera	192.168.1.239:81
> Netzwerk > Telefonie		
STATUS > Übersicht > Details		

For Speedport (Deutsch) Routers 2

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.1

2. Click Netzwert --- Nat & Portregeln, and click ADD CUSTOM SERVICE

·· T ··Com·	Speedport W 700V	
Modus T-DSL / Festnetz	Netzwerk	
	Netzwerkeinstellungen	
> Startseite	>> Internetzugang	T-Online
ASSISTENT	>> LAN	IP-Adresse: 192.168.2.1
-> Schritt für Schritt	>> DHCP-Funktion	Ein
	>> Wireless LAN (WLAN)	Ein
- KONFIGURATION	>> Repeater	Aus
> Sicherheit	>> PPPoE Pass-Through	Aus
- > Telefonie	>> NAT & PortregeIn	0 Regel(n)
	>> Dynamisches DNS	Ein
- STATUS - > Übersicht		

3. Click PCs ubernehmen & freigeben

Modus T-DSL / Festnetz	Netzwerk / NAT & Portregeln	
	PC Liste für Portregeln	
> Startseite	>> PCs übernehmen & freigeben	1 PCs überni
-> Schritt für Schritt	Portregeln	
	>> Port-Weiterleitung	0 Regel(n)
KONFIGURATION	>> Port-Umleitung	0 Regel(n)
-> Sicherheit	>> Port-Öffnung (dynamisch)	0 Regel(n)
> Netzwerk		
L > Telefonie		

4. Find your IP camera here and Add PC-Name to the camera

Modus T-DSL / Festnetz	Netzwerk / NAT & Portregeln / PCs übernehmen & freigeben			
	PCs übernehmen & freigeben			
> Startseite	MAC-Adresse	IP-Adresse	PC-Name	
ASSISTENT	64-70-02-FD-7D-EB	192.168.1.239	TENVIS	Übern.
> Schritt für Schritt				
- KONFIGURATION				
-> Sicherheit				
> Netzwerk				

5. Click SECURITY - FIREWALL RULES, add the service to the camera

Modus T-DSL / Festnetz	Netzwerk / NAT & Portregeln	
	PC Liste für Portregeln	
> Startseite	>> PCs übernehmen & freigeben	1 PCs übernommen
-> Schritt für Schritt	Portregeln	
	>> Port-Weiterleitung	0 Regel(n)
KONFIGURATION	>> Port-Umleitung	0 Regel(n)
-> Sicherheit	>> Port-Öffnung (dynamisch)	0 Regel(n)
> Netzwerk		
> Telefonie		

6. Select Neue Regel definieren



7. Set port forwarding

Modus T-DSL / Festnetz	Netzwerk / NAT & PortregeIn / Port-Weiterleitung / Regel Definition		
	Vordefinierte Anwendungsregeln		
> Startseite	Auswahl:		
ASSISTENT	Regel-Definition		
►> Schritt für Schritt	Bezeichnung: TENVIS		
KONFIGURATION	Gültig für PC: TENVIS		
-> Sicherheit			
> Netzwerk	Port-Übersicht: Anzeigen & aktualisieren		
- > Telefonie			
	Weitergeleitete Ports - Öffentlich & Private Client		
-> Übersicht	TCP: 81		
> Details	UDP:		

Bezeichnung: It is just a name whatever you want for port forwarding **Gultig fur PC:** Select the camera you just added

TCP: The camera's port

For TP-Link Routers 1

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For TP-link routers, in general, it is http://192.168.1.1

2. Click Forwarding --- Virtual Servers

TP-LIN	K.		_	
Ctatue				
Quick Setup	Virtual Servers			
Network	Note: Make sure the nat	is enable if you want th	e Virtual Servers configura	tion take effect
Dual Band Selection	1			
Wireless 2.4GHz				
Wireless 5GHz	ID Service Port	Internal Port	IP Address	Protocol
DHCP				
USB Settings				
NAT	Add New Er	able All Disable	e All Delete All)
Forwarding				
- Virtual Servers		P	Next	
- Port Triggering			I I I I I I I I I I I I I I I I I I I	
- DMZ				

3. Set port forwarding

Add or Modify a Virtual Serve	er Entry	
Service Port:	81	(XX-XX or XX)
Internal Port:	81	(XX, Only valid for single Service Port or leave it blank)
IP Address:	192.168	3. 1. 239
Protocol:	ALL	▼
Status:	Enable	d 🗸
Common Service Port:	Select	t One 👻
	Sa	Back

Service Port: the camera's port Internal Port: the camera's port IP Address: the camera's IP address Protocol: ALL or TCP Status: Enabled Click Save

For TP-Link / Binatone Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.1

2. Click Advanced Setup --- Virtual Servers

Advanced	Quick Start	Interface Setup	Advanced Setup	Access Managem	; Main ient Main	tenance
	Firewall	Routing	NAT	QoS	VLAN	ADSL
NAT						
		Virtual Circuit	: PVC4 💌			
		Number of IPs	: 💿 Single 🔿 I	Multiple		
		0	DMZ			
		0	Virtual Serve	۲		

3. Set port forwarding

Virtual Server		
	Virtual Server for : Single IP Account	
	Rule Index : 1 💌	
	Application : tenvis	- 💉
	Protocol : ALL 💌	
	Start Port Number : 81	
	End Port Number : 81	
	Local IP Address : 192, 168, 1, 239	

Application: A name for port forwarding, e.g.TENVIS Protocol: ALL or TCP Start Port Number: the camera's http port, eg: 81 Endl Port Number: the camera's http port, eg: 81 Local IP Address: the camera's IP address, e.g.:192.168.1.239 Click Save

For Virgin Routers 1

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.0.1 or http://192.168.0.254

2. Click Advanced –Port Forwarding

Wirgin medio											
	Por	t Foi	rwarding	g							
Block Sites											
Services	F			Activ	e For	ward	ina Ru	iles			-
Gateway Status	Ē	Nam	e Start	Port	End	Port	Proto	col	Local IP	Add	ress
Connection	0	ip 1	81		81		Both		192.168	.0.	239
Set Password Backup	0	ip 2	82		82		Both		192.168	.0.	240
Event Log Diagnostics	Cho	ose P	redefined	Serv	ice						
Wireless Settings MAC Filtering	Serv	ice -	SERVICES	4				•			
IP Filtering	Na	me	Start Port	End	Port	Prot	tocol	Loc	al IP Add	res	5
Port Blocking Port Forwarding	TE	NVIS	81	81		Во	th 🔻	192	2.168.0 .	239	9
Port Triggering DMZ Host _AN IP				Ad		elete	R	eset]		

Name: A name whatever you want for port forwarding Start Port: the camera's port End Port: the camera's port Local IP Address: the camera's IP address Click Add

For Virgin Routers 2

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.0.1

2. Click Advanced Settings



3. Select Port Forwarding

🔄 Security
Firewall
IP Filtering
MAC Filtering
Port Blocking
Port Forwarding
Port Triggering

4. Set Port Forwarding

Predefined	Rule	
Service	-SERVICES-	2
Add Rule		
Name	TENVIS	2
Start Port	81 C End Port 81	2
Protocol	TCP&UDP 🔻	2
IP Address	192.168.0. 239	2
Add Rule		

Name: A name whatever you want for port forwarding Start Port: the camera's port End Port: the camera's port Protocol: TCP IP Address: the camera's IP address Click Add Rule

For Webtell Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.200.1

2. Click Security --- Service – Port Forwarding

WESTELL	Home	My Network	Wireless	Security	Advanced
		Security Level Serv	rices Wireless Sec ALG	urity Change I	Password Security Log
	Security > Servic	es > Port Forwa	Port Forwarding Port Triggering		

3. Click new custom service

Security > Services > Po	ort Forwarding
Current Profile:	Default edit
Service Name	Select A Service
	enable delete edit
UPnP Enable	
new custom service	e
* If your firewall is enable	ed, the firewall rules take precedence over the Services.
static NAT	

4. Add a new custom service

Security > Services > Port Forw	arding > New Custom Service
Service Name: TENVIS	
Protocol	both 💌
Start Port	81
End Port	81
LAN Port	81
Direction	in 💌
Port Direction	dst 👻
	add done

Service Name: A name whatever you want for port forwarding Select the service you just added.

5. And click static NAT

npires II: The Conquerors 💌 ure Shell Command II
Command
un & Dune 2000 line urnament Server News Service d Online, C&C de Web (HTTP) celete
efined Service
ee

6. Enter the IP address of the camera, click **Enable**.

S	tatic NAT
Set up an IP address to b	e your default NAT destination.
Static NAT Device	94:44:52:95:7E:0E
c	or specify
IP Address 19	92. 168. 200. 239
All unsolicited in to the	ibound traffic will be sent above device.
Note: Static NA1 mutually	" and Single Static IP are exclusive features.
enable	disable cancel
	Help

For Zyxel Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.254

2. Click Network --- NAT, and click Port Forwarding

	Network > NAT > Port Forwarding
Status	General Port Forwarding ALG
P. 2602HW, D1A	Default Server Setup
- Network	Default 0.0.0.0
LAN	Port Forwarding
Wireless LAN	Service Server IP Address Name WWW
© VoIP © Security	WWW User define #HTTPS Bart End Translation Ser Port Port Start End Ad
Advanced	FTP Port Port

3. Add a new rule

Active	\frown	
Service Name	TENVIS	
Start Port	81	
End Port	81	
Server IP Address	192.168.1.239	
Port Translation	\sim	
Start Port	81	
End Port	81	
himania		

Service Name: It is just a name whatever you want for port forwarding

Start Port: the camera's port End Port: the camera's port IP Address: The camera's IP addresss Click Apply