



## **TZO DDNS How-To: Using TZO with a Dedicated Micros™ DV-IP model DVR**

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### **Why do I need the TZO Dynamic DNS with my DVR and how do I set it all up?**

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A DVR can work on any type of IP address, but most manufacturers and installers will suggest a STATIC IP address - which means the IP address never changes. Due to the fact that many of these DVR's are installed on Internet connections using Cable or DSL - it's very difficult and expensive to obtain a static IP address - sometimes impossible if not very costly.

Using TZO DDNS, you pay only \$24.95 per year or \$39.95 for 2 years for this service instead of paying thousands more per year buying a static IP

TZO.COM DDNS (Dynamic DNS) is the simple solution to this common problem. The TZO DDNS provides you with a domain name to use with your Dynamic IP address - we also work on static IP's. TZO software tracks your IP address changes and updates the domain name immediately, allowing you and your users to connect to the DVR using this domain name instead of an IP address

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### **Here are steps on how to best use the TZO Dynamic DNS with your DVR setup:**

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**1)** Get your DVR installed and running internally (inside your network) and make sure the DVR is working according to the install guide. We recommend that the DVR is set to a STATIC INTERNAL LAN IP to avoid the DVR changing IP's on the internal network.

**2)** You should now get your DVR connected to your router/network and make sure the network is connected to your cablemodem or DSL modem.

\*\* If the network is using DSL and you are using a router, make sure the DSL MODEM is in BRIDGE mode. The router should be handling the PPPoE signon instead of using the DSL modem since this can cause issues with port blocking. Contact your DSL provider about using the router to perform PPPoE instead of the DSL modem

**3)** Configure your router or firewall to open the proper ports (if you use a router) in order to connect to your DVR using the current IP address of the router. You should forward the below TCP ports to the STATIC LAN IP address of your DVR system. The Dedicated Micros™ DV-IP DVR's use the following TCP and UDP ports:

**Port 80 TCP** – Used for Viewing the video via the DV-IP Viewer and a web browser

#### **Additional ports used by the DV-IP for other functions:**

**Port 21 TCP** – (FTP) - used for manual/auto archiving video & audio to a remote server or PC

**Port 23 TCP** - (Telnet) – Used for Remote terminal application

**Port 1025 UDP** - Telemetry Control – Used for PTZ commands passed from the PC

**Port 2074 UDP** - Audio Port - Outgoing and incoming audio is passed over this link

**Port 2075 UDP** - Audio Port - This port provides the control for audio outgoing and incoming

**Port 5201 TCP** - Engineering Debug

**4)** Once you can connect to your DVR from the INTERNAL NETWORK (same network that the DVR is on) using the INTERNAL STATIC IP on the DVR, you should then attempt to connect to the DVR from an EXTERNAL location (Internet) using the routers WAN IP address. The WAN IP address can be obtained from the STATUS page of all routers. You can also obtain the WAN IP address of the router by going to <http://www.mywanip.com> or <http://test.tzo.com> from any browser located on the SAME NETWORK as the DVR.

Write this WAN IP down that returns in the browser, and then LEAVE that location and use an Internet connection at a friend's house, or from any other location/ISP to connect back to the DVR using this WAN IP address. If you cannot do this, you most likely have not forwarded the ports properly or there are some other issues with the DVR setup externally. You must be able to get past this test to make sure everything is setup properly before using/installing TZO

**5)** Now that the DVR is up and running and accessible from the Internal Network and from the Internet, you need to determine how TZO will run on your network: Below are the 2 options for running TZO:

**TZO OPTION 1:** TZO can run on a Windows PC or Server that remains up and running on the same network as the DVR (\*this PC must remain at this location and up and running 24/7) If your DVR is based on a Windows system, you can install the TZO Software on the DVR itself.

**TZO OPTION 2:** On a router that supports the TZO DDNS service - only certain routers have TZO certified DDNS - see this list at <http://routerlist.tzo.com> for a detailed list of routers.

If you are going to be using a router, we suggest the following routers that are available from online retailers or at the local PC store:

- Linksys™ BEFSR41 V3 - 4 Port router
- Netgear™ FR114P - 4 port router
- D-link™ 804HV - 4 port router
- Linksys™ WRT54G/GS Wireless router

#### **5A) Are you using the TZO.COM Software on a Windows based PC?**

-Download TZO from our website, TZOLite or TZO V3.2 versions will work for you, both are Windows compatible versions

-DOWNLOAD TZO HERE: <http://www.tzo.com/MainPageDownload/index.html>

-Install on the PC that remains running at all times at the DVR location

-Select 30 day trial option, TZO Emails you a TZO Key - or 10 day trial - no email address needed

-Select a domain name such as YOURNAME.TZO.COM, or other domains offered. Leave the PC running and the TZO software running at all times.

-Once this is up and running, it will allow unlimited use for the 10 or 30 day trial period.

-Order the 1 Year TZO STANDARD SERVICE at

[http://www.tzo.com/RedirectPages/Order\\_Standard\\_1yr.html?sku=TZO-1YR-SUB](http://www.tzo.com/RedirectPages/Order_Standard_1yr.html?sku=TZO-1YR-SUB)

\*\* Do this BEFORE the 10 or 30 day trial service expires if possible

## **5B) Are you using the TZO.COM Dynamic DNS service in a router?**

- Sign up for a 30 day trial at <http://DedicatedMicros.tzo.com>
- Select a domain name, enter in your email address, and TZO will send the domain name, and TZO Key to that email address
- Log into the router and go to the DDNS or Dynamic DNS section of the router. Select the TZO DDNS service in the router
- Enter in the TZO Domain name, your email address used to obtain the TZO key, and the TZO Password key in the proper fields
- Hit APPLY or Save Settings
- Once this is up and running, it will allow unlimited use for the 30 day trial period.
- Order the 1 Year TZO STANDARD SERVICE at the URL below:  
[http://www.tzo.com/RedirectPages/Order\\_Standard\\_1yr.html?sku=TZO-1YR-SUB](http://www.tzo.com/RedirectPages/Order_Standard_1yr.html?sku=TZO-1YR-SUB)
- \*\* Do this BEFORE the 30 day trial service expires if possible

**6)** Once you get TZO DDNS setup with your TZO domain name you selected, you can then use this domain name to connect to your DVR from the Internet. It's very important that if you are running the TZO software, that you keep the software running at all times. If you use a TZO compatible router, the router will update the domain name when the IP changes on the router.

That's it! It's as simple as using the TZO DOMAIN NAME (Example: YourDVRName.tzo.com, Yourname.MyOwnDVR.net, My-DVR.net, etc) to connect to the DVR system remotely instead of using an IP address that's always changing. The TZO domain name NEVER changes, and you will always continue to use the same domain name whenever you or your clients want to connect to the DVR at that location. You can then use the DM Viewer remote viewing software or Internet Explorer browser to connect using this domain name.

### **Questions:**

**Contact TZO at <http://www.tzo.com>**

**Email: [Support@tzo.com](mailto:Support@tzo.com)**

**Email: [Sales@tzo.com](mailto:Sales@tzo.com)**

**TZO.COM DVR Center: <http://www.tzo.com/dvr/>**

**Ordering: Toll Free in US and Canada – 877-433-6865**

**Support: 978-433-6865**

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