

Control your TDS3000B Series Oscilloscope over the Internet: How to Activate e*Scope™

- 1.) Assign your oscilloscope an IP address. The address should contain 4 sets of up to three numbers, separated by periods (i.e. 128.181.240.94). Ask your organization's network administrators for an address.



Figure 1. TDS3000B IP address menu. From your oscilloscope's front panel, then select menu options in this order: Utility, System, I/O, Ethernet Network Settings, Change Instrument Settings.

- 2.) If your PC is connected to the Internet and your oscilloscope and PC are on the same side of your company's firewall, select either Method 1 or 2.

Method 1: Basic control option

Enter your oscilloscope's IP address into your Web browser window. This will take you to the e*Scope home page housed in your oscilloscope. Click on the Data tab at the top of the page. From the Data page you can type in commands and control the oscilloscope (see figure 2).



Figure 2. Data page housed on your TDS3000B oscilloscope. Type commands here. Or go into the Control Tab to download your oscilloscope's graphical user interface.

To control your TDS3000B through its graphical user interface, click the Control tab at the top of the browser window. When you click this tab, your oscilloscope will retrieve the Control Page from <http://www.tektronix.com> (see figure 4). The Control page is cached on your Web browser, your connection with the Tektronix web site ends, and commands and data go directly between your PC and oscilloscope.

Method 2: Advanced control option

From your browser, go to <http://connect.tek.com/escape>. Enter your oscilloscope's IP address (see figure 3). This will take you to the e*Scope home page housed in your oscilloscope. Click the Control tab at the top of the page. Your oscilloscope will then retrieve the Control page, as described in the previous paragraph (see figure 4). The Control page reproduces the oscilloscope's graphical user interface.

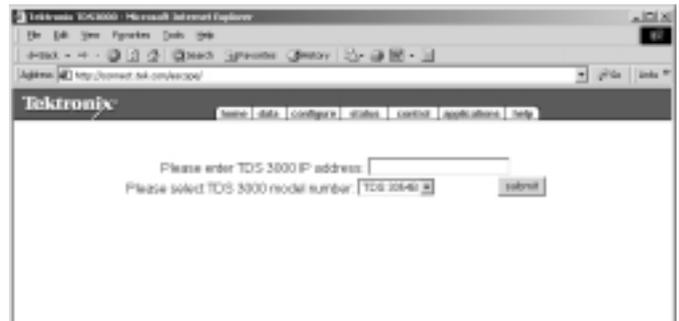


Figure 3. <http://connect.tek.com/escape>.

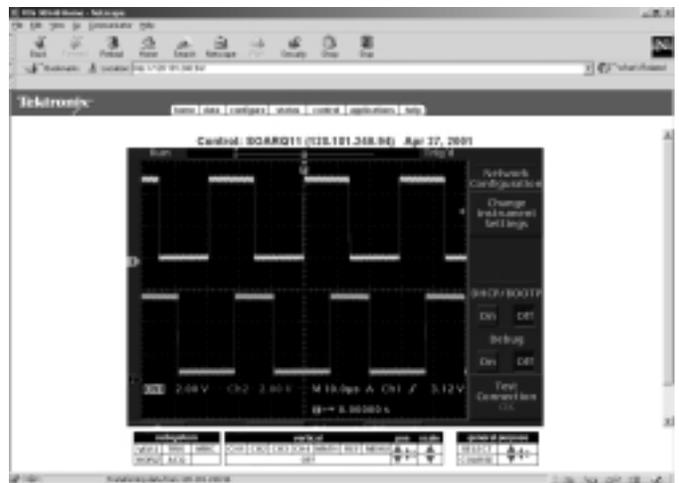


Figure 4. Control page from www.tektronix.com/escape cached on your Internet browser. Using your mouse or computer keyboard, you can control your oscilloscope.

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- 3.) If your PC and oscilloscope are on opposite sides of your organization's firewall, see your network administrator to find a suitable solution. The methods described here are commonly used.

A **Virtual Private Network (VPN)** makes the external PC appear as if it is attached to the internal enterprise LAN. This allows your network administrators to supervise and control the connection between your oscilloscope and the external computer.

A **Reverse Proxy** makes the oscilloscope look like it is outside the firewall. To the external PC, the oscilloscope appears to be on the Internet at a special URL.

The **Port Forwarding** approach forwards the port for the server outside the firewall. The oscilloscope's IP address becomes the IP address of the gateway. In some cases, you will need to change the oscilloscope's http port number to one other than its default 80 to prevent conflicts with other Web servers with the same default gateway address.



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