

TA Instruments TRIOS Software Installation Instructions

Installation Requirements

Your TRIOS Instrument Control software includes all the components necessary to install or update the TRIOS software, as well as the supporting instruction documentation. The version of TRIOS software contained in this kit may be newer than the version currently installed on your controller. It is highly recommended that you install or update your software.

Before installing the TA Instruments TRIOS software, you should ensure that the computer system meets the required specifications. Performance issues may be observed within the TRIOS software if installed on computers that do not meet the minimum required specifications.

Description	Required
Operating System ¹	Supported Operating Systems: 64-bit version of Windows 10 or Windows 11 Ultimate, Enterprise & Professional ² . Note that 32-bit processors are not supported.
Processor	Intel [®] Core [™] i5 8400 (2.8 GHz with 9 MB cache) or better
Memory	8 GB required. ≥16 GB RAM DDR4 2666 SDRAM recommended.
Hard drive	 ≥ 80 GB free on hard drive 1.5 GB required for Full version of TRIOS 675 MB required for Lite version of TRIOS (without Help)
Screen resolution	1280 x 1024 (1920 x 1080 recommended) with \geq 24-bit colors
Graphic memory	128 MB
Screen (LCD) size	19" or greater (24" wide screen recommended)

Windows[®] Requirements for TRIOS Software

1. Install Microsoft Operating System Service Pack, Internet Explorer and/or Direct X (if required). If you don't have the required versions of these packages, they can be obtained through the Microsoft web site (at www.microsoft.com/downloads) or by using the Microsoft Windows Update mechanism (accessed through the Start menu or by accessing http://update.microsoft.com).

2. Home version of Windows 10 and 11 is not acceptable. Home version is missing certain functionality that is needed for optimized analyzer performance and efficiency.

Windows[®]10 and Windows 11 operating systems are a registered trademark of the Microsoft Corporation. Intel[®] is a registered trademark of Intel Corporation.



The Microsoft components .NET Framework and Visual C++ are automatically installed as part of TRIOS V2.0 or higher and Advantage V4.7 or higher. The specific versions of these components vary depending on the software package installed. These components support the latest software development tools used in TRIOS/Advantage, as a result, software installation may take longer than in previous versions.

Additional Requirements for Instrument Control

Description	Required
User log-in capability	While multiple users may still use the "Fast User Switching" function when running Windows, only one user at a time may use the TA Instruments TRIOS Instrument Control Software. This limit, which is applicable to most programs, is a result of hardware resources that are used by each of these programs.



There may be additional requirements based on the type of instrument installed. Refer to the instrument's Site Preparation Guide for additional requirements.

Free Disk Space Required

The approximate amount of free disk space required for installation of the TRIOS software is at least 4.5 GB.



This amount is above that required for the operating system, plus the other software products supplied on the installation CD-ROM. In addition, an extra 15 MB of free disk space is required during the install process (for temporary install files.)

Installation Instructions

- Install TA Instruments TRIOS Software from the Web v5.1.1 or older only
- Install TA Instruments TRIOS Software From a CD

Install TA Instruments TRIOS Software from the Web - v5.1.1 or older only

NOTE: TRIOS versions 5.2 and greater require purchase of a software subscription. Contact TA Instruments Service for more information or to purchase a subscription. Once purchased, a link to download the software is provided.

- 1 Go to www.tainstruments.com > Support > Software Downloads & Support.
- 2 Click TRIOS Download Page.
- 3 Click the applicable download link. The file automatically downloads.

Details

Supported Operating Systems: 64-bit version of Windows 7, 8, & 10 Ultimate, Enterprise & Professional.

Important Notes

- Download TRIOS 5.1.1 below
 TRIOS 5.1.1 | TRIOS 5.1.1 Lite
- TMA users ONLY: Please download TRIOS v5.0
 TRIOS 5.0 | TRIOS 5.0 Lite
- Users running WinUA that was installed with an older version of TRIOS may need to reinstall WinUA from Advantage after upgrading to this build. Click here to download the latest Advantage build.
- If running TRIOS on a 32-bit version of Windows
 7, 8, & 10 Ultimate, Enterprise or Professional, click here to download a compatible TRIOS build (TRIOS 4.4)
- 4 Once the file has finished downloading, click the drop-down arrow and then click **Open** to begin the install.

	Rpen
	vays open files of this type
	Show in folder
	Cancel
TRIOS_Full_v5.1.1.4ex	~

5 Once the TRIOS file is extracted, the TRIOS Setup Wizard begins. Click **Next**.

TRIOS - InstallShield Wizard		×
	Welcome to the InstallShield Wizard for TRIOS	
TRIOS	The InstallShield Wizard will install TRIOS on your computer. To continue, click Next.	
	< Back Next > Cancel	

Users running Advantage may encounter a Q Series error during setup. Click **OK** on the error dialog and continue installation.



6 Review the license agreement. If you wish to continue, select "*I accept the terms of the license agreement*," then click **Next** to continue with the installation.

NiO	S - InstallShield Wizard		×
Lie	cense Agreement		
	Please read the following license agreement carefully.		Ċт́
			^
	TA Instruments End-User License Agreement		
	This License Agreement is your proof of license, please treat it as valuable property.		
	IMPORTANT - READ CAREFULLY: This is a legal		
	agreement between you (either an individual or an entity) and TA Instruments for this TA Instruments instrument control and/or data analysis software product. By breaking the seal on your disk/CD- ROM package and/or installing, copying or otherwise using this SOFTWARE you agree to be bound by the terms and conditions of		~
	Instruments for this TA Instruments instrument control and/or data analysis software product. By breaking the seal on your disk/CD- ROM package and/or installing, copying or otherwise using this	Print	~
	Instruments for this TA Instruments instrument control and/or data analysis software product. By breaking the seal on your disk/CD- ROM package and/or installing, copying or otherwise using this SOFTWARE, you agree to be bound by the terms and conditions of	Print	~
	Instruments for this TA Instruments instrument control and/or data analysis software product. By breaking the seal on your disk/CD- ROM package and/or installing, copying or otherwise using this SOFTWARE, you agree to be bound by the terms and conditions of I accept the terms of the license agreement	Print	~

7 Enter your name and company, and select whether you are installing the application for all users or only yourself. Then click **Next**.

TRIOS - InstallShield Wizard	×
Customer Information	_
Please enter your information.	(TA
User Name:	
TA Instruments	
Company Name:	
TA Instruments	
Install this application for:	
InstallShield	
< Back Next >	Cancel

8 If you would like TRIOS installed in a location other than the current Destination folder, browse to the folder that you prefer. Otherwise, click **Next**.

TRIOS - InstallShield Wizard	×
Choose Destination Location	_
Select folder where setup will install files.	CTA
Setup will install TRIOS in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and s another folder.	select
Destination Folder	
C:\Program Files (x86)\TA Instruments\TRIOS\ Bro	wse

- 9 When the Start Copying Files dialog box displays, click Next to begin copying the files.
- 10 Once the files are copied, TRIOS is extracted and then the Shortcuts dialog box displays. Select the desired options that you wish to create shortcut icons for on your desktop. After making your selections, click **Next**.

TRIOS - InstallShield Wizard	×
Shortcuts Select any additional shortcuts to be placed on the desktop	TA
 ✓ TA Navigator Launcher ✓ Fast Track ✓ ElectroForce DMA Data Analysis ✓ Online Help 	
InstallShield	Next

11 When complete, click **Finish** to close the installation window. Wait at least one minute before trying to establish communications with the instrument.

Upgrade Installation of an Existing TRIOS Controller

Follow the detailed instructions on the next several pages, if needed, to upgrade your software.

- 1 Log into Windows[®] with an account that has Administrator Rights.
- 2 Insert the TRIOS CD into the CD-ROM or DVD drive.
- 3 To upgrade the software, select **Install TRIOS** from the dialog box.



Users running Advantage may encounter a Q Series error during setup. Click **OK** on the error dialog and continue installation.

- 4 The message *"This setup will perform an upgrade to TRIOS."* will appear, otherwise click the file **Setup.exe** located on the CD.
- 5 Select Yes to continue and select Next to begin the installation upgrade process.
- 6 Once the installation is complete, select **Finish**.
- 7 Install the instrument firmware as described in Update Instrument Software (Firmware) on page 28.

Detailed Installation Instructions for First Time Installations

Based on your computer and whether it meets the installation requirement details on the previous page, you may need to perform all or some of the following steps. These steps MUST be performed in the correct order as outlined below.

Follow the steps below to install your software and set up your system. Consult the individual section in this document for detailed information, if needed.

- 1 Log into Windows® with Administrator Rights. If you are already logged in with these rights, close any open applications.
- 2 Install TA Instruments TRIOS software
 - Install TA Instruments TRIOS Software From a CD
 - Install TA Instruments TRIOS Software from the Web v5.1.1 or older only
- **3** Establish instrument connection with TRIOS software. Select from the instructions below, based on your instrument type:
 - Establish an Instrument Connection Discovery Thermal Series, ARES-G2, RSA-G2
 - Establishing a Connection HR x0
 - Establish an Instrument Connection DHR 1/2/3 and AR Series
- 4 Start TRIOS Software
- **5** Update Instrument Software (Firmware)

Install TA Instruments TRIOS Software From a CD

The installation package allows you to install TRIOS software. Insert the TA Instruments TRIOS CD into your CD-ROM or DVD drive. The screen below will automatically appear. (If the set-up program doesn't start, double click on the *Setup.exe* file on the CD.)



- 1 Select between the following options:
 - Installation Guide Accesses this document.
 - What's New Accesses a document listing the new features in this TRIOS software release.
 - Install TRIOS Begins installation of TRIOS software.
 - Install WinUA Begins installation of WinUA (Advantage) software.
 - 3rd Party Licenses Accesses a document with all 3rd party license agreements.
 - **Exit** Exits the set-up program.

Users running Advantage may encounter a Q Series error during setup. Click **OK** on the error dialog and continue installation.



2 To install the software, click **Install TRIOS**. Once the file is extracted, click **Next**.

TRIOS - InstallShield Wizard		×
TRIOS	Welcome to the InstallShield Wizard for TRIOS The InstallShield Wizard will install TRIOS on your computer. To continue, click Next.	
	< Back Next > Cance	4

3 Review the license agreement. If you wish to continue, select "*I accept the terms of the license agreement*," then click **Next** to continue with the installation.

TRIOS - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	TA
TA Instruments End-User License Agreement	<u>^</u>
This License Agreement is your proof of license, please treat it as valuable property.	
IMPORTANT - READ CAREFULLY: This is a legal agreement between you (either an individual or an entity) and TA Instruments for this TA Instruments instrument control and/or data analysis software product. By breaking the seal on your disk/CD-ROM package and/or installing, copying or otherwise using this SOFTWARE, you agree to be bound by the terms and	Ŧ
I accept the terms of the license agreement	Print
I do not accept the terms of the license agreement	
InstallShield	Cancel

4 Enter your name and company, and select whether you are installing the application for all users or only yourself. Then click **Next**.

TRIOS - InstallShield Wizard	×
Customer Information Please enter your information.	TA
User Name:	
TA Instruments	
Company Name:	
TA Instruments	
Install this application for:	
 Anyone who uses this computer (all users) 	
 Only for me (TA Instruments) 	
InstallShield	
<pre> Back Next ></pre>	Cancel

5 If you would like TRIOS installed in a location other than the current Destination folder, browse to the folder that you prefer. Otherwise, click **Next**.

TRIOS - InstallShield Wizard	— X—
Choose Destination Location Select folder where setup will install files.	TA
Setup will install TRIOS in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and selec another folder.	x
Destination Folder C:\Program Files (x86)\TA Instruments\TRIDS\ InstallShield	e
	Cancel

- 6 When the Start Copying Files dialog box displays, click **Next** to begin copying the files.
- 7 Once the files are copied, TRIOS is extracted and then the Shortcuts dialog box displays. Select the desired options that you wish to create shortcut icons for on your desktop. After making your selections, click **Next**.

TRIOS - InstallShield Wizard	×
Shortcuts Select any additional shortcuts to be placed on the desktop	TA
 ✓ TA Navigator Launcher ✓ Fast Track ✓ ElectroForce DMA Data Analysis ✓ Online Help 	
InstallShield ————————————————————————————————————	Next

8 When complete, click **Finish** to close the installation window. Wait at least one minute before trying to establish communications with the instrument.

Establish an Instrument Connection – Discovery Thermal Series, ARES-G2, RSA-G2

To establish connection for the first time, configure the instrument and network connection. This process is different based on the instrument type. Select between the following options:

- Discovery Thermal Series, ARES-G2, RSA-G2 (continue with this section)
- ARES-G2 and RSA-G2 Ethernet Direct Connect (refer to page 13)
- Discovery Hybrid Rheometer (DHR) Series, AR Series (refer to page 23)

Once you have established connection, you can start the TRIOS software (refer to Start TRIOS Software on page 26).

Option 1: Connection of Instrument(s) to Standalone Router

In this configuration, instruments are connected to a standalone router. This option requires that a dedicated a 10 Base T /100 Base TX Ethernet card be installed in the controller to communicate with the instrument.

Connecting the Instrument to the Router

- 1 DO NOT install the CD included with the router, this is not applicable for our use.
- 2 Plug one end of the power cord into the power connector and the other end into the AC outlet (100-240 Vac 50/60 Hz).
- **3** Power off the instrument.
- 4 Locate the Network port on the rear of the instrument (shown in the figure below).





- 5 Connect one end of the Ethernet cable into the instrument's Network port.
- 6 Connect the other end of the Ethernet cable to one of the LAN ports on the router.



- 7 Power on the router and allow it to initialize.
- 8 Power on the instrument.

- **9** Check the Network port on the rear of the instrument. If communication between the instrument and the router has been properly established, a solid green light and flashing yellow light will appear at the port.
- 10 Follow the directions in the next section to connect the controller computer to the router.

Configuring the Ethernet Card for DHCP

To configure the Ethernet card for DHCP:

- 1 Click the Windows start button on the taskbar, then select **Control Panel** > **Network and Internet** > **View network status and tasks**.
- 2 Highlight the Local Area Connection link for the Ethernet card that will communicate with the instrument. Then right-click and select **Properties**.
- **3** From the **General** tab, highlight the **Internet Protocol Version4 (TCP/IPv4)** and then select **Properties**.
- 4 Enable the radio button selection **Obtain an IP address automatically** and click **OK**.

Connecting the Computer to the Router

- 1 Locate the Ethernet port on the back of the computer.
- 2 Plug one end of the Ethernet cable into the computer's Ethernet port (shown in the figure to the right).
- 3 Connect the other end of the cable to one of the network ports on the router.
- 4 Check the Ethernet port on the rear of the computer. If communication between the computer and the router has been properly established, a solid green light and flashing yellow light will appear at the port.
- 5 Follow the directions in the next section to connect the controller computer to a LAN for networking capabilities.



Ethernet Port

Connecting the Computer to a LAN (optional)

Before you can connect the controller computer to a LAN, you will need to have already installed an additional Ethernet card in the computer.

Only use this option if you do not wish to use the router to connect into the corporate network. Typically, you can simply connect into the corporate LAN from the Internet port on the router.

- 1 Locate the second Ethernet port on the back of the computer.
- 2 Plug one end of the Ethernet cable into the computer's Ethernet port.
- **3** Plug the other end into the corporate LAN.
- 4 Check the Ethernet port on the rear of the computer. If communication between the computer and the LAN has been properly established, a solid green light and flashing yellow light will appear at the port.

Option 2: Connection of Instrument(s) Directly to Corporate LAN

In this configuration, instruments are plugged directly into corporate LAN. This option requires that a single 10 Base T /100 Base TX Ethernet card (configured with corporate LAN settings) be installed in the controller to communicate with the instrument.

Discovery thermal instruments can be configured as DHCP or Static IP. If you are using Static IP addressing, you'll need to ensure the IP, Gateway, and Subnet Mask are compatible with your company network.

- 1 Power off the instrument.
- 2 Locate the Network port on the rear of the instrument.
- 3 Connect one end of the Ethernet cable into the instrument's Network port.
- 4 Connect the other end of the Ethernet cable to the corporate LAN.
- 5 Power on the instrument.
- 6 Locate the Ethernet port on the back of the computer.
- 7 Plug one end of the Ethernet cable into the computer's Ethernet port. Plug the other end into the corporate LAN.

Ethernet: ARES-G2/RSA-G2 Direct Connect

For connecting the rheometer directly to the PC, follow these instructions:

- 1 Connect an Ethernet cable from the instrument Ethernet port to the host computer Ethernet port.
- 2 Power up the instrument and then press the Settings tab on the touch screen.
- 3 Verify that the Network Address knob is set to **Static**. The following default values display:
 - IP Address: 192.168.1.128
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.1.1
- 4 Select Save Network Setting.
- 5 Reboot the instrument to save network settings. Once the instrument is running again, on the host computer go to Control Panel > Network and Sharing Center > Local Area Connection. In the Local Area Connection Status dialog box, click Properties.

Control Panel >	All Control Panel Items Network and Sharing Center	✓ 49 Se	arch Control Panel 🔎
Control Panel Home Change adapter settings Change advanced sharing settings	View your basic network information and set up conn ARES-LAB-W7 (This computer) View your active networks Unidentified network Public network Access typ Connection	See full map Internet Connect or disconnect	0
See also HomeGroup Internet Options Windows Firewall	Change your networking settings Set up a wireless, broadband, Connect to a network Connect or reconnect to a wi Concetor reconnect to a wi Prv4 Connectivity: IPv6 Conne	No Internet access No network access Enabled 00:23:32 100.0 Mbps	

6 Verify that Internet Protocol Version 4 (TCP/IPv4) is selected, then click Properties.

📱 Local Area Connection Properties 📃 💌
Networking
Connect using:
Intel(R) 82579LM Gigabit Network Connection
Configure
This connection uses the following items:
Client for Microsoft Networks
🗹 📮 QoS Packet Scheduler
File and Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
Internet Protocol Version 4 (TCP/IPv4)
🗹 📥 Link-Layer Topology Discovery Mapper I/O Driver
Link-Layer Topology Discovery Responder
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default
wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

7 Configure the PC network card as shown below and then click **OK**. Close all windows related to the local area connection.

Internet Protocol Version 4 (TCP/IPv4)	Properties 🛛 🖓 🔜
General	
You can get IP settings assigned autom this capability. Otherwise, you need to for the appropriate IP settings.	
Obtain an IP address automaticall	у
• Use the following IP address:	
IP address:	192 . 168 . 1 . 127
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
Obtain DNS server address autom	natically
Our Section Control	resses:
Preferred DNS server:	
Alternate DNS server:	• • •
🔲 Validate settings upon exit	Advanced
	OK Cancel

8 Use the TA Instruments Explorer or TRIOS icon to connect to the instrument. The instrument should be recognized by the IP address (192.168.1.128). See Using the TA Instrument Explorer in TRIOS Help for additional information.

Establishing a Connection – HR x0

Ethernet: DHCP Network

If your network is DHCP, follow these instructions for your applicable instrument.

- 1 Connect your controller computer to a Network port and configure it as necessary.
- 2 Connect the electronics module to a Network port using the cable provided and turn the power on.
- 3 Display the network setup from the instrument touch screen:
 - a From the Home screen, press System Info.

b The Network Configuration screen displays. The IP Address automatically displays in the IP Address field.

TA HR-30 Idle	🛕 0.01 N	≟ 90328.66 µm	25.00 °C
Name	NGDHR-PP01		
Location	PP_Lab		
Serial Number	5343-9701	25 (200	
IP Address	10.52.52.110	Netwo	rk
Network Configuration	DHCP		
	Save		
	() ' 🖨 ' 🍲		

As long as a valid IP address is generated by the company, network or router communications should be established and no further action is needed.

Ethernet: Direct Connect

For connecting the rheometer directly to the PC, follow these instructions:

- 1 Connect the electronics module to the PC using the cable provided and turn the power on.
- 2 Configure the system for a fixed IP address from the instrument touch screen:
 - a From the Home screen, press System Info.
 - **b** Select **Static**. Using the keypad, enter the standard static IP address as shown below.

TA HR20 Offline Å -0.19 N **≟** --- µm ∘c Static O DHCP 9 IP Address: 192 168 2 5 6 . 1 4 Subnet Mask: 255 255 255 0 Gateway: 192 168 . 1 1

- IP Address: 192.168.1.2
- Subnet Mask: 255.255.255.0

- Gateway: 192.168.1.1
- c Press Save.
- **d** Restart the instrument to store the static IP address to the instrument.
- e On the host computer go to **Control Panel** > **Network and Sharing Center** > **Local Area Connection**. In the Local Area Connection Status dialog box, click **Properties**.

Control Panel >	All Control Panel Items Network and Sharing Center	٩
Control Panel Home Change adapter settings Change advanced sharing settings	View your basic network information and set up connections Image: ARES-LAB-W7 Unidentified network Internet View your active networks Connect or disconnect Image: View your active network Access type: Network access Image: View your active network Access type: Network access Image: View your active network Access type: Network access Image: View your active network Connect or disconnect	Ø
See also HomeGroup Internet Options Windows Firewall	Change your networking settings	

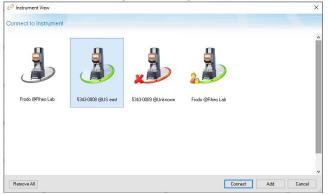
f Verify that Internet Protocol Version 4 (TCP/IPv4) is selected, then click Properties.

📱 Local Area Connection Properties
Networking
Connect using:
Intel(R) 82579LM Gigabit Network Connection
Configure
This connection uses the following items:
Client for Microsoft Networks
🗹 🚚 Qo S Packet Scheduler
File and Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
Internet Protocol Version 4 (TCP/IPv4)
🗹 📥 Link-Layer Topology Discovery Mapper I/O Driver
 Link-Layer Topology Discovery Responder
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default
wide area network protocol that provides communication
across diverse interconnected networks.
OK Cancel

g Configure the PC network card as shown below and then click **OK**. Close all windows related to the local area connection.

General			
You can get IP settings assigned supports this capability. Otherwis administrator for the appropriate	se, you need to a		
Obtain an IP address autom	atically		
() Use the following IP addres	s:		
IP address:	192 . 168	. 1 .	3
Subnet mask:	255 . 255	. 255 .	0
Default gateway:	•	•	
Obtain DNS server address	automatically		
Use the following DNS server	er addresses		
Preferred DNS server:		·	
Alternate DNS server:		(s	
🔲 Validate settings upon exit		A	dvanced
		ок	Cance

h Connect to the rheometer from the TRIOS icon on the desktop. An instrument connection dialog box displays. Select the instrument. Double-click the instrument icon (must be green to connect, see image below) or click Connect. See "Connecting to an Instrument" in TRIOS Help for more information on using this dialog.



Establish an Instrument Connection – DHR 1/2/3 and AR Series

Ethernet: DHCP Network

If your network is DHCP, follow these instructions for your applicable instrument.

DHR Series Instructions

- 1 Connect your controller computer to a Network port and configure it as necessary.
- 2 Connect the electronics module to a Network port using the cable provided and turn the power on.
- 3 Press the Cycle Display keypad button

to display network setup.

4 Use the Up keypad button to select DHCP.

Network settings	
MAC address	00-04-A3-50-39-F4
DHCP	
Up - Set to DHC	P, Down - Set fixed IP
Zero - Clear passv	vord

5 Press the **START** keypad button to reboot the system. The system will acquire a network address upon restarting.

AR Series Instructions

- 1 Connect your control computer to a Network port and configure it as necessary.
- 2 Connect the electronics module to a Network port using the cable provided and turn the power on.
- **3** Use TA Instrument Explorer (TAIE) to connect to your rheometer.

Ethernet: Direct Connect

For connecting the rheometer directly to the PC, follow these instructions:

- 1 Connect the electronics module to the PC using the cable provided and turn the power on.
- 2 Configure the system for a fixed IP address.

For DHR Series instruments:

Press the **Cycle Display** keypad button **to** display network setup. a



- Use the **Down** keypad button **V** to select **fixed IP**. b
- Press the START keypad button to reboot the system. The system will acquire a network address с upon restarting.

Network settings 00-04-A3-50-39-F4 MAC address DHCP Up - Set to DHCP, Down - Set fixed IP Zero - Clear password Stop - Abandon changes Start - restart instrument to apply settings For AR Series instruments:

- **a** It will be necessary to wait 2 minutes while the electronics attempts to find a DHCP server. Once this has timed out, the system will default to a fixed IP address (192.168.1.2).
- **3** Configure the PC network card as shown below.

Internet Protocol (TCP/IP) Prope	rties 🛛 🛛 🔀
General	
You can get IP settings assigned auton this capability. Otherwise, you need to a the appropriate IP settings.	
O <u>O</u> btain an IP address automaticall	y
• Use the following IP address:	
IP address:	192.168.1.1
S <u>u</u> bnet mask:	255.255.255.0
<u>D</u> efault gateway:	
Obtain DNS server address autom	natically
• Us <u>e</u> the following DNS server add	Iresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel

4 Use TA Instrument Explorer to connect to your rheometer. See Using the TA Instrument Explorer in TRIOS Help for additional information.

Start TRIOS Software

TRIOS can be started by doubling-clicking the TRIOS desktop shortcut.

- 1 Double-click the TRIOS shortcut.
- 2 An Instrument View dialog box displays and is auto-populated with your connected instruments.

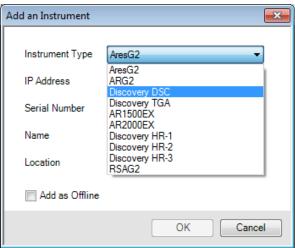
NOTE: Click **Add** to add an instrument manually. Refer to the section Adding an Instrument Manually for more information.



3 Double-click an instrument icon or click Connect to connect to an instrument.

Adding an Instrument Manually

- 1 In the Instrument View dialog box, click Add.
- 2 The Add an Instrument dialog box displays. Select the instrument type from the drop-down list and then click **OK**.



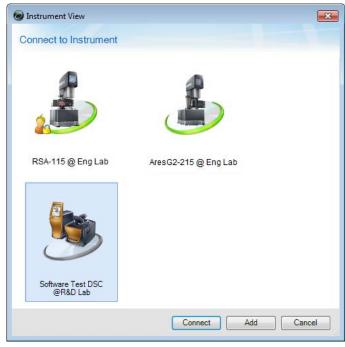
3 Enter the IP Address and Port, Serial Number, Name of the instrument, and Location of the instrument. If you only intend to view and analyze data, click **Add as Offline** to connect to the instrument offline. Click **OK** when all of the information has been entered.



The IP Address and Serial Number of the instrument can be obtained from the **Settings** tab on the instrument touch screen.

Add an Instrument	•
Instrument Type	Discovery DSC 🔹
IP Address/Port	10.52.5.114 / 8080 🔺
Serial Number	DSC1-1167
Name	Software Test DSC
Location	R&D Lab
Add as Offline	
	OK Cancel

4 The instrument now displays in the Connect to Instrument dialog box. Select the instrument and then click **Connect**.



For more information regarding the connection dialog, refer to the topic "Connecting to an Instrument" in Online help.

Update Instrument Software (Firmware)

Each instrument operating with the TRIOS Software requires a specific version of instrument firmware to properly communicate with the instrument control software. It's important that you update the firmware, if required. For instructions on how to update your instrument firmware using TRIOS Software, follow the instructions below.



NOTE: Instruments that do not have the proper version of the firmware installed will not communicate properly with the instrument control software.

Refer to your specific instrument's firmware update instructions located in TRIOS Help:

- Updating ARES-G2 Instrument Firmware using TRIOS
- Updating RSA-G2 Instrument Firmware using TRIOS
- Updating HR/DHR Instrument Firmware using TRIOS
- Updating Discovery Thermal Series Instrument Firmware using TRIOS

Ways to get assistance while you work

Everything that you need to know about using TRIOS software is online. This online information should be your primary source of information to help you use the program.

Online Help

The TRIOS software has an online help supplement. The Help provides access to extensive information on the instrument control and data analysis software and the instruments themselves. To access Help within the TRIOS software, click on the 🕡 located on the top right of the program.

Click Table of Contents to access a table of contents for the Help file.

Click Search for topics by using an index of subjects.

Click on the Find or Search to use full-text search and look for specific words or phrases.

Internet Explorer Security Options

The security options installed with Windows 7, Windows 8, Windows 10, and Windows 11 can prevent the Help from displaying properly. If this occurs, follow these instructions to allow Help to display properly:

- **1** Open Internet Explorer.
- 2 Select Tools/Internet Options from the menu and click on the Advanced tab.
- 3 Scroll down to the Security section and check the option to "Allow active contents to run in files on My Computer."
- 4 Click OK.
- 5 Reboot the computer.

Changing this setting allows "active content" such as the ActiveX control to execute code in Internet Explorer. For more information on this topic, and its implication on computer security, please see <u>http://msdn.microsoft.com/security/productinfo/xpsp2/securebrowsing/locallockdown.aspx</u> for a discussion on Local Machine Zone Lockdown.

If you have any third-party software toolbars installed (such as Google or Yahoo), ensure that the pop-up blockers included with these toolbars are disabled so that the Help will open. The built-in pop-up blocker that comes with Internet Explorer has no effect on the display of the Help.

TA Instruments Mobile Application

The TA Instruments free mobile application for iOS and Windows can be downloaded from the Microsoft store. The app provides easy access to application notes, training videos, webinars, and also allows you to register for upcoming training courses and request service for your instrument or application.