

Windows 10 Professional for MassHunter Workstation

Setup Guide

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Before you can install MassHunter software on Windows 10 Professional, you need to set up the operating system.

Note that installations on computers not supplied by Agilent are supported on a best-effort basis only. Additional support can be purchased from the Agilent field support team.

This guide assumes the computer has just been imaged using the Agilent branded PC Emergency Recovery Disk produced specifically for and supplied with your bundled Hewlett-Packard computer. Do not use the standard Windows 10 media or PC settings can differ from the parameters that are optimal for your Agilent MassHunter software.



Minimum Requirements

The minimum computer specifications to run MassHunter programs on Windows 7 Professional (64-bit) are:

- HP Z440 w/ Intel Xeon E5-1620v3 (3.50 GHz, 10 MB cache, 4 cores)
- 16 GB of DDR4-2133 Registered ECC RAM
- 500 GB of available HDD space

For MassHunter Acquisition:

- For Q-TOF instruments: 4× 500 GB 7200 RPM SATA HDDs in a RAID 1+0 configuration (mirrored and striped)
- For Triple Quadrupole instruments: 2× 500 GB 7200 RPM SATA HDDs in a RAID 1 configuration (mirrored)
- For all GC Single Quad computers: 1× standard (100BASE-TX) Ethernet adapter (2nd optional adapter for site LAN connection)
- For all LC/MS and GC/MS: 1× standard (100BASE-TX) Ethernet adapter (2nd optional adapter for site LAN connection)
- For 7250 GC/Q-TOF only: 1× standard (100BASE-TX) Ethernet adapters and 1× IEEE 802.3an compliance (10GBASE-T) Ethernet adapter, (2nd optional 100BASE-TX adapter for site LAN connection)

Step 1. Set up Windows 10

The first time that Windows 10 Professional starts up after installation, you are prompted for setup information.

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English				
español (México)				
français (Canada)				
português (Brasil)				

1 When prompted, select your language, then your region, preffered language, keyboard, and time zone.

Only these operating systems are supported:

- English (United States)
- Japanese (for MassHunter Qualitative Analysis and Quantitative Analysis programs)
- Simplified Chinese (for MassHunter Qualitative Analysis and Quantitative Analysis programs)

English	
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What keyboard layout would you like to use?	
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(UTC-08:00) Pacific Time (US & Canada)	• ·

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2 Create a user name and password for a user that will be a member of the Administrators group.

For Agilent bundle computers, create a new user other than "admin." The user name "admin" with password "3000hanover" is already created when the Emergency Recovery Disk is used.

- Read Microsoft's license terms for Windows 10 Professional. Click Accept.
- **4** Log out of the user you just created, and log in to the Admin account using password 3000hanover.

The license agreement from Agilent appears.

Agilent Technologies DataSystem End User License Agreement	
Welcome to your Agilent Technologies DataSystem You must agree to the end user license agreement before using the software on this computer	
Your HP Workstation contains preinstalled software programs. Please read the Software License Agreement before proceeding.	^
CAREFULLY READ THIS LICENSE AGREEMENT AND LIMITED WARRANTY STATEMENT BEFORE PROCREDING TO OPERATE THIS EQUIPMENT. RIGHTS IN THE SOFTWARE ARE OFFERED ONLY ON THE CONDITION THAT THE CUSTOMER AGREES TO ALL TERMS AND CONDITIONS OF THE LICENSE AGREEMENT. PROCREDING TO OPERATE THE	
EQUIPMENT INDICATES YOUR ACCEPTANCE OF THESE TERMS AND CONDITIONS. IF YOU DO NOT AGREE WITH THE TERMS OF THE LICENSE AGREEMENT, YOU MUST NOW EITHER REMOVE THE SOFTWARE FROM YOUR HARD DISK DRIVE AND DESTROY THE MASTER DISKETTES, OR RETURN THE COMPLETE COMPUTER AND SOFTWARE FOR A FULL REFUND.	
	*
*	
LAgreeQancel	

5 Click **I Agree** to accept the Agilent Software License Terms as the administrator.

Step 2. Rename the network adapters

Step 2. Rename the network adapters

- 1 Select Start > Settings (🍥)
- 2 Select Network & Internet > Ethernet (from the left side menu) > Change adapter options.
- 3 Under Related settings, select Change adapter settings.

← Settings	
🔅 Home	Ethernet
Find a setting \wp	Network
Network & Internet	Connected
	Unidentified network
🛱 Status	
🔛 Ethernet	Related settings
🗊 Dial-up	Change adapter entions
	Change adapter options
% VPN	Change advanced sharing options
🕑 Data usage	Network and Sharing Center
	HomeGroup
Proxy	Windows Firewall

You will see one, two, or three network connections. (Some instruments require a third 10 Gb network adapter.)

- 4 Disconnect all network cables from the computer.
- **5** *Optional.* Connect the in-house network:
 - **a** Connect a network cable for the in-house network to the port labeled **House**.
 - **b** Right-click the newly enabled network adapter and select **Rename**. Change the name to House connection.
- **6** For 7250 GC/Q-TOF only:
 - **a** Connect a network cable from the MS LAN port to the network adapter on the back of the computer that is labeled **MS**.
 - **b** Right-click the name of the connected main-board network adapter and select **Rename**. Change the name to MS Instrument.

- 7 Connect the Ethernet switch:
 - a Connect a network cable from the Ethernet switch to the network adapter on the back of the computer that is labeled LC-MS or GC.
 - **b** Right-click the name of the connected network adapter and select **Rename**. For LC/MS instruments, change the name to LC-MS Instrument. For GC/MS instruments, change the name to GC Instrument.

Refer to the installation guide for your GC/MS or LC/MS instrument to connect instruments and modules to the Ethernet switch.

← Settings		- 0
K NETWORK & INTERNET		Find a setting
Data usage VPN Dial-up	Ethernet	
Ethernet	😨 Network Connections	
Proxy	Rela ← → ~ ↑ ♥ > Control Panel > Network and Internet > Network Connections Chang Organize ▼ Disable this network device Diagnose this connection Rename the Chang Network cable unplugged Network cable unplugged Intel(R) Ethermet 1210-T1 GBE NIC Network Connection (2)^+ Home Windc	is connection Change settings of this connection Disable Status Diagnose Bridge Connections Create Shortcut Delete Rename Properties

	Sharing		
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Description Transmiss wide are across d	nk-Layer Topol all on ssion Control Pr a network prot iverse intercon	ogy Discovery Re Uninstall rotocol/Internet P ocol that provides nected networks	rotocol. The default

Step 3. Set the network adapter IP addresses

- 1 Right-click HOUSE connection and select **Properties**.
- 2 Double-click Internet Protocol Version 4 (TCP/IPv4).

nternet Protocol Version 4 (TCP/IPv4)	Properties ? X
General Alternate Configuration	
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator
Obtain an IP address automatical	ly
O Use the following IP address:	
IP address:	
Sybnet mask:	· · · · ·
Default gateway:	
Obtain DNS server address autor	natically
OUSE the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	
Vaļīdate settings upon exit	Ad <u>v</u> anced
<u></u>	OK Cancel

- **3** In the General tab:
 - a If the IT department for your organization requires specific network settings, select or type the settings. Otherwise, select Obtain an IP address automatically.
 - **b** Click **OK** twice to return to the Network Connections dialog box.

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onnect using:			
P Broadcom NetXtre	eme Gigabit Ethern	et	
		Configure	ที่
nis connection uses the	e following items:		
Client for Micro	soft Networks		٦
QoS Packet So	cheduler	0. N	
 File and Printer Broadcom Advance 	Sharing for Microso anced Server Prog	oft Networks ram Driver	
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 Internet Protoco Icola Lawar Tara 	ol Version 4 (TCP/I	Pv4)	
 Link-Layer Top Link-Layer Top 	ology Discovery Ma ology Discovery Re	esponder	
Install	Uninstall	Properties	
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O Use the following DNS server addresses:

Preferred DNS server: Alternate DNS server:

Validate settings upon exit

- 4 Right-click LC-MS Instrument or MS Instrument and select Properties.
- 5 Clear the check box for Internet Protocol Version 6 (TCP/IPv6). This protocol is not supported by Agilent instruments.
- 6 Double-click Internet Protocol Version 4 (TCP/IPv4).

- 7 In the General tab:
 - a Select Use the following IP address.
 - **b** For **IP address**, type 192.168.254.1.

The Subnet mask automatically populates as 255.255.255.0. Leave the Default Gateway and DNS Server lines empty.

- **c** Click **OK** twice to return to the Network Connections panel.
- 8 Repeat step 4 through step 7 for GC Instrument with this exception:
 - For IP address, type 192.168.253.1.

OK

Advanced...

Cancel

Step 4. Change firewall settings for the instrument network adapter

Step 4. Change firewall settings for the instrument network adapter

- 1 Close the network connections window and return to the **Settings**, **Network & Internet** view.
- 2 Under Related Settings, click Windows Firewall.
- 3 In the navigation pane, click Advanced settings.

P Windows Firewall				-	\times
← → ∽ ↑ 🔗 > Control Par	el > System and Security > Windows Firew	vall	ٽ ~	Search Control Panel	Q
Control Panel Home	Help protect your PC with Windo	ows Firewall			
Allow an app or feature through Windows Firewall	Windows Firewall can help prevent hackers Internet or a network.	s or malicious software from gaining access to your PC through the			
Change notification settings	Update your Firewall settings				
Turn Windows Firewall on or off	Windows Firewall is not using the rec settings to protect your computer.	commended 📢 Use recommended settings			
 Restore defaults Advanced settings 	What are the recommended settings	57			
Troubleshoot my network	Private networks	Not connected 📎			
	Guest or public networks	s Connected 🔗			
	Networks in public places such as airports	s or coffee shops			
	Windows Firewall state:	On			
	Incoming connections:	Block all connections to apps that are not on the list of allowed apps			
	Active public networks:	None			
	Notification state:	Notify me when Windows Firewall blocks a new app			
See also					
Security and Maintenance					
Network and Sharing Center					

Step 4. Change firewall settings for the instrument network adapter

🔗 Windows Firewall with Advance	d Security	- 🗆 X
File Action View Help		
Hindows Firewall with Advance	Windows Firewall with Advanced Security on Local Computer	Actions
S Inbound Rules Outbound Rules Connection Security Rules Monitoring	Windows Firewall with Advanced Security provides network security for Windows computers.	Windows Firewall with Advanced Security on Local Compu Firewall with Advanced Security on Local Compu Firewall with Advanced Security on Local Computer Security Computer Security Securi
	Overview	Restore Default Policy
	Domain Profile	Diagnose / Repair
	Windows Firewall is on.	View 🕨
	S Inbound connections that do not match a rule are blocked.	Q Refresh
	Outbound connections that do not match a rule are allowed.	Properties
	Private Profile Image: Second Secon	2 Help
	Public Profile is Active	
	Windows Firewall is on.	
	Indound connections that do not match a rule are allowed	
	Windows Firewall Properties	
	Getting Started	•
	Authenticate communications between computers	
	Create connection security rules to specify how and when connections between computers are authenticated and protected by using Internet Protocol security (IPsec).	
	Connection Security Rules	
	View and create firewall rules Create firewall rules to allow or block connections to specified programs or ports. You can also allow a connection only if it is authenticated, or if it comes from an authorized user, group, or computer. By default, inbound connections are blocked unless they match a rule that allows them, and outbound connections are allowed unless they match a rule that blocks them.	
	Inbound Rules Outbound Rules	
	View current trewail and IPsec policy and activity View information about currently applied firewail and connection security rules and security associations for active network connections.	
	Monitoring	
< >>		

4 Under Overview, click Windows Firewall Properties.

Step 4. Change firewall settings for the instrument network adapter

5 In the **Domain Profile** tab, next to **Protected network connections**, click **Customize**.

Windows Firew	all with Advan	ced Sec	urity or	n Local (Compute	er Pro	×
Domain Profile	Private Profile	Public	Profile	IPsec S	ettings		
Specify beha domain. State	avior for when a o	compute	r is conr	nected to	its corpo	rate	
🛁 🔒 R	irewall state:	[On (rec	ommend	ed)	\sim	
-	Inbound conne	ections:		Block (default)		\sim	
	Outbound conr	nections	:	Allow (default) V		\sim	
	Protected network connections		Customize				
Settings	pecify settings th rewall behavior.	iat contr	ol Windo	ows	Custom	ize	
Logging Si tr	pecify logging se oubleshooting.	ttings fo	r		Custom	ize	
		ОК		Cano	el	<u>A</u> pply	

6 Clear all check boxes except House connection, and then click OK.

Protected Network Co	nnections f	or the Doma	in Pr	—		\times
Select the check box protect.	or each conr	nection you wa	ant Windov	ws Firewal	l to help	
Network connections						
House connection	n nt					
	-					
			0	(Cancel	

- 7 Repeat the step 5 and step 6 for the **Private Profile** and **Public Profile** tabs.
- 8 Click **OK** to close the Windows Firewall with Advanced Security on Local Computer Properties dialog box.
- 9 Close the Windows Firewall with Advanced Security window.

Step 5. Turn off Power Management for all Network Cards

- 1 Right-click the Start menu and click Computer Management.
- 2 Under System Tools, click Device Manager.
- 3 Expand Network adapters.
- **4** For each network adapter:
 - a Right-click the adapter and click Properties.
 - **b** In the **Power Management** tab, *clear* the check box for **Allow the computer to turn off this device to save power**.
 - c Click OK and then close the Computer Management window.



Step 6. Confirm that Telnet Client and TFTP Client are enabled

Step 6. Confirm that Telnet Client and TFTP Client are enabled

- 1 Click the **Start** button and then type programs.
- 2 Click Programs and Features.



Programs and Features							
$\leftarrow \ o \ o \ o$ Control Panel > All Control Panel Items > Programs and Features							
	Control Panel Home	Uninstall or change a program					
•	View installed updates Turn Windows features on or	To uninstall a program, select it from the list and then click Uninstall, Change, or Re					
Ľ	off	Organize 🔻					
		Name	Publisher				
		Adobe Systems Incorporate					
		🍌 Agilent Lab Advisor					
		Agilent Technologies					
		Agilent Technologies					
		🔚 Agilent MassHunter Workstation Qualitative Analysis	Agilent Technologies				
		Agilent Technologies					
		Akamai Technologies, Inc					
		🕝 CyberLink Power2Go	CyberLink Corp.				

3 Click Turn Windows features on or off.

4 Verify that the Telnet Client and TFTP Client check boxes are selected.

These clients are required for the LC/MS Firmware Update Tool and for GC/MS instruments.



5 Press OK and close the Control Panel.

Step 7. Install MassHunter programs

• Install MassHunter programs.

Follow the appropriate installation or upgrade guide.

Step 8. Configure Microsoft Update and run on a regular basis

• On a regular basis, run Windows Update. Make sure to always install Windows Security Updates.

CAUTION Do not schedule, download, or install any Windows Update while an Agilent instrument is acquiring data. Do not allow the computer to automatically download or install any Windows Update.

By default, your computer will not download or install Windows updates automatically. If your computer is connected to the Internet, you will be notified when updates are available.

CAUTION

Some Windows Feature Updates will change the group policy setting on your computer to allow the computer to automatically download and install Windows Updates, or to automatically reboot. For more information on how to control how and when Windows Updates are run, see

https://docs.microsoft.com/en-us/windows/deployment/update/waas-restart.

Third-party Software Security Programs

Agilent does exhaustive testing on a variety of software and hardware configurations to ensure that every configuration that Agilent sells works as designed.

However, Agilent is not able to test every combination of 3rd party computer security (antivirus, anti-malware, and firewall) programs for compatibility.

The customer is responsible for determining the compatibility of any 3rd party software that runs with an Agilent product.

If a 3rd party computer security program causes problems for an Agilent product, Agilent can request that such program be disabled or removed before Agilent provides support.

Windows Firewall

By default, the Windows firewall is enabled on the (main-board) network adapter that connects the computer to the House LAN. For network adapters that connect to Agilent instruments, keep the firewall disabled.

Windows Defender

By default, Windows Defender anti-malware service is enabled and must be updated on a regular basis. No special exclusions are required for the Windows Defender service to operate with Agilent products, except where otherwise indicated.

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In This Book

This guide describes how to set up Windows 10 Professional for MassHunter Workstation, to prepare for MassHunter software installation.

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