



# **REMOTE ACCESS TO BIOQUANT**

### Background

BIOQUANT software can be accessed and used remotely via the university VPN and Windows Remote Desktop Connection. This document explains the specific procedures involved.

## **Technical Requirements**

Technical Requirements for the Remote PC

- BIOQUANT does not have any technical requirements for the remote PC.
- It's easier to make a remote connection if your home monitor supports the 1920x1200 desktop size, but there is a configuration procedure below if this is not available.

Technical Requirements for the BIOQUANT PC

- BIOQUANT does not have any additional technical requirements for remote desktop access. If you BIOQUANT system is working in the lab, it should work remotely from home.

# **Our Advice for VPN Connections**

A "virtual private network" allows computers that are not located on campus to join the on-campus network. A VPN connection is required for Windows Remote Desktop. The university VPN is managed by the university IT staff. They can provide instructions for using it. **Be patient.** Lots of people are using the VPN right now. If it's really busy, **try working at "off peak" times** when the VPN will be less busy.

## **Our Advice for Windows Remote Desktop Connections**

**BIOQUANT has tested Windows Remote Desktop Connection in Windows 10.** There is Windows Remote Desktop software for Windows 7 and for MacOS, but BIOQUANT can't test those and we can't support them.

The image quality in Windows Remote Desktop is better in Window 10 than it has ever been. That said, the software will compress the picture of your BIOQUANT desktop to match the available internet speed at your house. This means **the image may get blocky or fuzzy** from time to time. **Don't worry.** The actual BIOQUANT desktop doesn't look this way and it won't affect your data. It's like looking at a monitor through a dirty window. It's the window not the monitor.

Be patient. Using imaging software remotely can be tricky. Be kind to yourself.

#### **Enabling Windows Remote Desktop Connection to the BIOQUANT Computer.**

This is the standard remote access solution for Windows 10 computers. This will need to be enabled at the BIOQUANT pc before you can connect remotely.

- 1. From the Start menu, choose Settings.
- 2. In Settings, click System.



3. In System, scroll down and click Remote Desktop.

← Settings	– 🗆 X –
යි Home	Display
Find a setting	Rearrange your displays
System	Select a display below to change the settings for it. Press and hold (or select) a display, then drag to rearrange it.
- Tablet mode	
甘 Multitasking	
Projecting to this PC	
% Shared experiences	
🛱 Clipboard	Identify Detect
→ Remote Desktop ←	
③ About	Color
	Night light
	Off
	Night light settings Referenced lock organ robus

#### 4. On Remote Desktop, turn Enable Remote Desktop on.



- 5. Write down the PC name. You'll need this to connect from home.
- 6. Close the settings box and leave the BIOQUANT computer running.

#### Windows Remote Desktop with Home Desktop Sizes 1920x1200 or Higher

If you're lucky enough to have a high resolution laptop or monitor at home, then you can follow this quick procedure to connect to your BIOQUANT computer in the lab.

1. Make sure your desktop size is 1920x1200 or higher.

Add one Halp All changes saved in Drive	
← Settings	- 🗆 X
命 Home	Display
Find a setting $\rho$	Windows HD Color settings
System	Scale and layout
🖵 Display	Change the size of text, apps, and other items
다) Sound	100% (Recommended)
Notifications & actions	Display resolution
<ul> <li>J Focus assist</li> </ul>	1920 × 1200 (Recommended)
🖒 Power & sleep	Display orientation

To check, from the Start menu, click Settings. On Settings click System. Scroll down to the Display resolution setting. It should be 1920x1200 or higher. If you can't set it that high, skip down to the "Configuring Windows Remote Desktop for Home Monitors Less than 1920x1200" procedure below.

- Establish your VPN connection. Check with your IT staff for instructions on this part.
- 3. Open Remote Desktop Connection. It's under the Windows Accessories folder on Start.



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4. Enter the name of the BIOQUANT computer.

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	Remote Desktop Connection			
<u>C</u> omputer: Username: You will be as	BIOQUANT None specified sked for credentials when you cor	∽	]	
Show O	ptions	Connect	He	elp

- 5. Click Connect.
- 6. After you log in to the BIOQUANT computer, you'll be able to use BIOQUANT normally. You'll see a blue bar across the top of your screen with the name of the BIOQUANT computer on it. As always, contact BIOQUANT support at <u>support@bioquant.com</u> with any questions!

#### **Configuring Windows Remote Desktop for Home Monitors Less than 1920x1200**

Most home monitors or laptops don't have the high resolution used by the BIOQUANT computer. Fortunately, there's a way to get the Windows Remote Desktop software to dynamically shrink the BIOQUANT desktop to fit your desktop at home. Unfortunately, the procedure's a bit tedious. Fortunately, you only need to do this once. As always, get in touch with us a <u>support@bioquant.com</u> with questions.

#### Consider Buying a 1920x1200 Monitor

A really simple solution is to <u>buy a Dell U2412M monitor</u>. They cost \$250 last time we checked. You may be able to get them cheaper at Amazon. It will make using the BIOQUANT software easier.



1. Open Remote Desktop Connection

2. Enter the name of the BIOQUANT computer.



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3. Click Show Options

퉋 Remote	Desktop	Connection		_		×
	Ren Co	note Desk nnectio	top n			
General [ Logon set	Display ttings Enter th <u>C</u> omput User na You wil	Local Resources the name of the ren ter: BIOQUAT time:	Experience note computer	Advanced	~	
Connectio	on setting Save th saved o	s le current connect connection.	tion settings to Sa <u>v</u> e As	an RDP file	or open a	3
A Hide Op	otions			Co <u>n</u> nect	<u>H</u> el	lp

 Click Save As... and save these settings as bioquant.rdp on your desktop. We'll need to make some changes to the settings in this file. We checked. There's no way to use the normal Remote Desktop Connection box to change these settings.

Note As			×
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Organize 🔻 New folder			:== • ?
💻 This PC	^ Name	Date modified Type	Size
3D Objects		3/17/2020 2:31 PM File fol	der
🛄 Desktop			
Documents			
🖶 Downloads			
👌 Music			
E Pictures			
🛃 Videos			
👳 bioquant (\\elephant) (B:)			
🏪 Local Disk (C:)			
🗙 BQIAC Master Folders (\\front) (F:)	~		
File <u>n</u> ame: bioquant.rdp			~
Save as type: Remote Desktop File	es (*.RDP)		~
∧ Hide Folders			Save Cancel

- Now from the Start button, open Notepad.
   We'll need to use Notepad to edit the settings in the bioquant.rdp file.
- 6. In Notepad, from the File menu, choose Open, and navigate to the desktop.

🦳 Open					×
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ $\Rightarrow$ This PC $\Rightarrow$ Defined to the second	asktop →		ٽ ~	,○ Search Des	ktop
Organize 👻 New folder					= • 🔟 😮
🗸 💻 This PC	^ Name	^	Date modified	Туре	Size
> 🧊 3D Objects	Temporary		3/24/2020 1:40 PM	File folder	
> 📃 Desktop					
> 🔮 Documents					
> 🕂 Downloads					
> 🁌 Music					
> 📰 Pictures					
> 📑 Videos	~				
File <u>n</u> ame:			~	/ Text Documents	(*.txt) ~
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7. Next to File name, change the Text Documents (\*.txt) drop list to All Files (\*.\*).

Dpen 🖉			×
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ $\rightarrow$ This PC $\rightarrow$ Desktop		ٽ ~	,○ Search Desktop
Organize 🔻 New folder			EE 🕶 🔟 💡
This PC	Name	Date modified	Type Size
3D Objects		3/24/2020 1:40 PM	File folder
E. Desktop	nioquant.rdp	3/24/2020 1:38 PM	Remote Desktop 3 KB
🔮 Documents			
🖶 Downloads			
b Music			
E Pictures			
📑 Videos 🗸 🗸			
File <u>n</u> ame:			All Files (*.*)
	Encoding: Aut	to-Detect 🔨	Open     Cancel

8. Double click on the bioquant.rdp file to open it.



- 9. Make these changes:
  - a. Change the "screen mode id:i:" value to 1.
  - b. Change the "desktopwidth:i:" value to 1920.
  - c. Change the "desktopheight:i:" value to 1200.
  - d. If the line "use multimon:i:1" appears, delete it.
  - e. Underneath the line "desktopheight:i:1200", add "smart sizing:i:1"

10. Your file should now look like this:

💹 bioquant.rdp - Notepad —	$\times$
File Edit Format View Help	
screen mode id:i:1	^
desktopwidth:i:1920	
desktopheight:i:1200	
smart sizing:i:1	
session bpp:i:32	
winposstr:s:0,3,0,0,800,600	
compression:i:1	
keyboardhook:i:2	
audiocapturemode:i:0	
videoplaybackmode:i:1	
connection type:i:7	
networkautodetect:i:1	
bandwidthautodetect:i:1	
displayconnectionbar:i:1	

- 11. From the File menu, choose Save.
- 12. From the File menu, choose Exit.
- 13. Double click the bioquant.rdp file. You'll get a warning message. This is normal.



14. Check the "Don't ask me again for connections to this computer" check box.



- 15. Click the Connect button.
- 16. You'll need to log into the BIOQUANT computer. Different universities handle this differently, so follow your IT department instructions.
- 17. Once you're logged in you'll see your desktop.
- 18. Start BIOQUANT. You should see something like this:



19. You're all set! You can make the view of the BIOQUANT computer full screen by right clicking the title bar and choosing "Fullscreen"



20. This will give you a special blue "Full screen bar" at the top of the desktop.