Frequently Asked Questions

- **+Finding the correct .exe file for a gaming-mouse profile**

If you're having trouble with profile detection, you may not have the profile associated with the correct or active game .exe file.

To find the active .exe for a game, you can either:

- Associate automatically using a G-Series keyboard with an LCD screen (see 360023243694).
  OR
- Find the .exe through Windows Task Manager (see 360023243694).

NOTE: You only need to do one of the above if the profile is not associated correctly. If you can point to the correct .exe when creating a profile, you don't need to do either one.

- **+Troubleshooting gaming mouse profile detection using Logitech Gaming Software**

You can configure your gaming mouse separately for each game or application on your computer (see 360023406553 for instructions). When a game is launched, the profile associated with it should activate. Sometimes, the profile doesn't activate properly, which can prevent game-specific settings from being applied.

When a game profile isn't activating properly:

- Try using a Persistent Profile (see answer 360023406553 for instructions).

  NOTE: Using a persistent profile will help you determine if the Logitech Gaming Software is working properly.

- Make sure the correct .exe file is selected for the game (see answer 360023406553 for help).
- Check that both the single player and multiplayer .exe files have profiles (see answer 360023406553 for help).

- **+Troubleshooting mouse button assignments and macros using Logitech Gaming Software**

When your button assignments and macros aren't working the way you configured them, the problem usually has to do with the active profile.

Here are some ways to try and resolve this issue:

- Lock the profile while the game is running (see answer 360023406013 for instructions).

- Try using a Persistent Profile to determine if the software is working properly (see answer 360023406013 for instructions).
- Check that the correct .exe is selected for the game (see answer 360023406013 for help).
- Make sure both the single player and multiplayer .exes have profiles (see answer 360023406013 for help).

- **+Linking profiles between a G-Series keyboard and gaming mouse using Logitech Gaming Software**

Logitech Gaming Software (LGS) shares the profiles between your G-Series keyboard and your gaming mouse, so no manual profile linking is needed. Macros and keystrokes you configured for your G-Series keyboard can be assigned to your gaming mouse, and mouse button presses you configured for your gaming mouse can be assigned to your G-Series keyboard.

NOTE: Certain mouse-specific buttons, like DPI Shift, can only be used with LGS-compatible mice. If you assign a G-Key on your keyboard as DPI Shift with a non-LGS mouse, the button will have no effect. Most other button presses, like Left and Right Click, can be assigned to your G-Keys.

- **+Gaming mouse profile stops working in the middle of a game**

When a profile stops working in the middle of a game, there are two possible causes. Either the profile is:

- **Not associated with the correct .exe file**
  The profile is detected in the game launcher or menu, but stops working while playing the game. This happens when the profile isn't associated to the correct .exe file. You can fix this by assigning the game's .exe file to the profile and not the launcher's .exe file. See 360023405833 for instructions.

  OR

- **Reverted to the Default Profile**
  Another application running on your computer may come to the foreground, causing the active profile to revert to the Default Profile. You can fix this by locking the profile assigned to the game. See 360023405833 for instructions.

- **+Cursor does not follow gaming mouse movements**

If the cursor isn't following the movements of your mouse, try the following:

- Make sure your mouse is firmly connected to a USB port on your computer (not to a USB hub).
- Try a different mouse pad.
- Check the sensor port (on the bottom of the mouse) for dust or lint.
- Avoid using your mouse on:

    -
    - Glass or other see-through surfaces
    - Reflective surfaces, such as mirrors and metal desks
    - Wood grains and grooved surfaces
    - Very high gloss finished surfaces
- Try the mouse on a piece of white paper to make sure it isn't a tracking issue on a particular surface you're using.

If the above steps don't resolve your problem, the erratic movement may be caused by software (for example, if the cursor speed is set too fast).

- +**My gaming-mouse profile stopped working after a game update**

Each profile is associated with a specific .exe file. Sometimes, when you install a game update or expansion pack, the location of the correct.exe may change.

If you recently installed a game update and then your game profile stopped working, see answer 360023405693 for help with finding the current game .exe.

- +**Gaming mouse and keyboard compatibility with USB hubs and KVM switches**

We don't support the use of third-party devices with our mice and keyboards. They can interfere with communication between a mouse or keyboard and the computer.

Unsupported third-party devices include:

- KVM switch boxes
- Port replicators
- Docking stations
- USB hubs

NOTE: The manufacturers of these third-party devices implement keyboard and mouse support in different ways. There is currently no industry standard.

- +**Setting different DPIs for gaming-mouse profiles using Logitech Gaming Software**

Logitech Gaming Software (LGS) configures DPI and other mouse pointer adjustments to work on all profiles by default. Using LGS, you can set different DPIs and pointer behavior for each game profile.

NOTE: This is an advanced setting and each game's profile will have to be individually configured, but it allows for maximum flexibility and configurability.

To set up different DPI settings for profiles:

1. Open the Logitech Gaming Software:
   Start > All Programs > Logitech > Logitech Gaming Software 8.x

   NOTE: Make sure Logitech Gaming Software is set to “Automatic Game Detection”.

2. Click **Customize Pointer Settings**.



   The **Pointer Settings** window will appear.



3. Select the "Enable per profile pointer settings" check box under the **Advanced** section.

   The Profiles area will appear in your window.



You can now set different DPI levels and report rates for each profile. The settings will stay as long as "Enable per profile pointer settings" is selected. If you:

- Clear this check box — the software will revert back to a single DPI setting for all applications.
- Select this check box again — the pointer settings you set up for each profile will be restored.

- +**Programming gaming-mouse buttons using Logitech Gaming Software**

Logitech Gaming Software enables you to program different button configurations for each profile on your computer. To learn how to create and assign application-specific profiles, see article 360023235474.

NOTE: If you're new to Logitech Gaming Software or you want to use only one profile with your mouse, first follow the steps in article 360023235474 to set up your Default Profile as a Persistent Profile.

To configure your mouse buttons:

1. Open the Logitech Gaming Software:

   Start > All Programs > Logitech > Logitech Gaming Software 8.x

2. Click the **Customize buttons** icon.



3. Select the profile you want to edit by clicking its icon. The profile will have a blue highlight bar above it when selected (ex. "Default Profile" below).

   NOTE: Logitech Gaming Software will detect some games you've installed and create profiles for them. You can create profiles for other games yourself (see article 360023235474 for help).

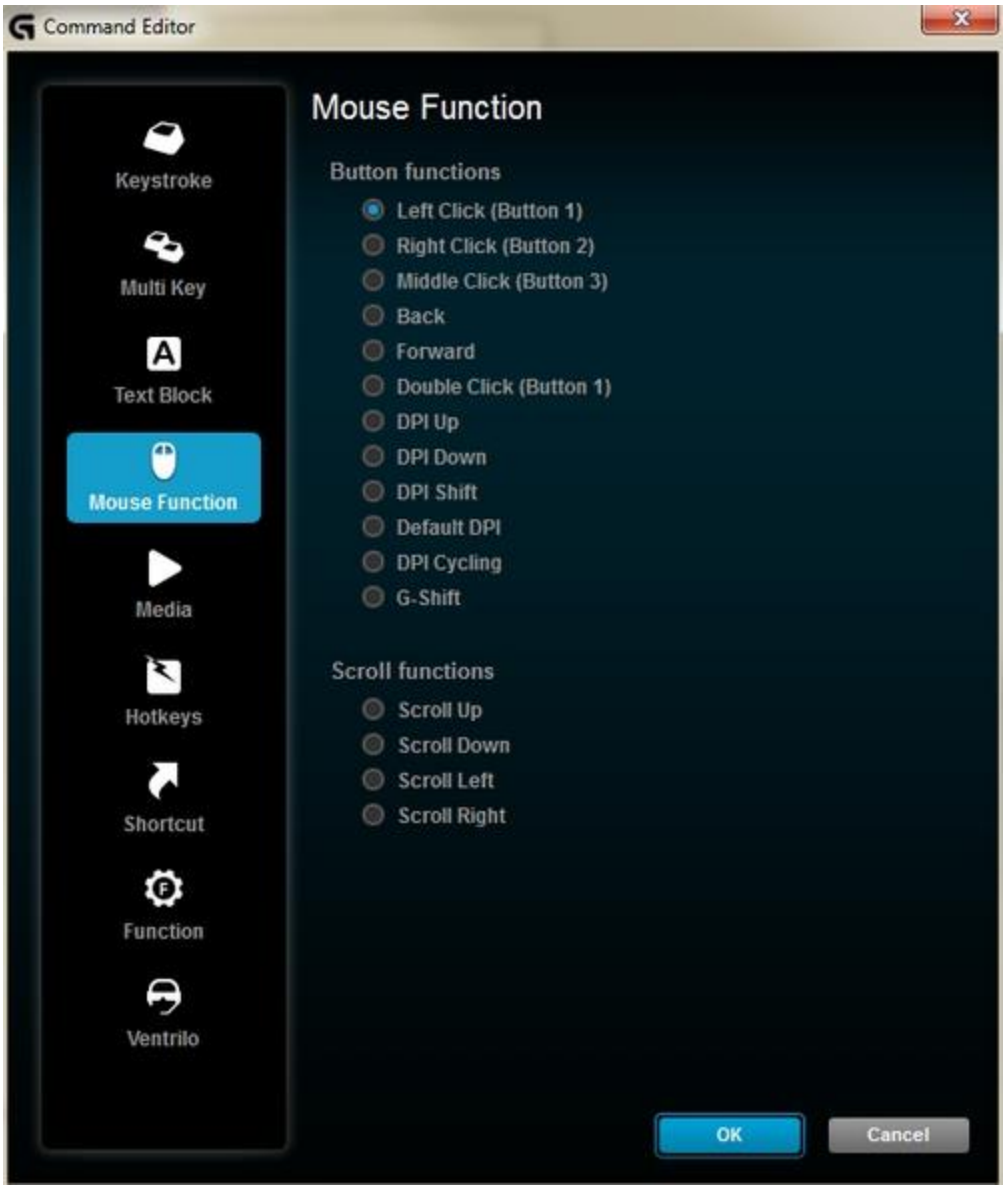


4. To edit a button, either:
   - Drag and drop an existing command onto it.

     NOTE: All commands you've created for that profile will be visible in the Commands list on the left. When you drag a command over the mouse, the configurable buttons will highlight. Choose the button you want to program and drop the command on top of it.

     OR

   - Right-click on a button and select **Edit Command**. The Command Editor window appears:

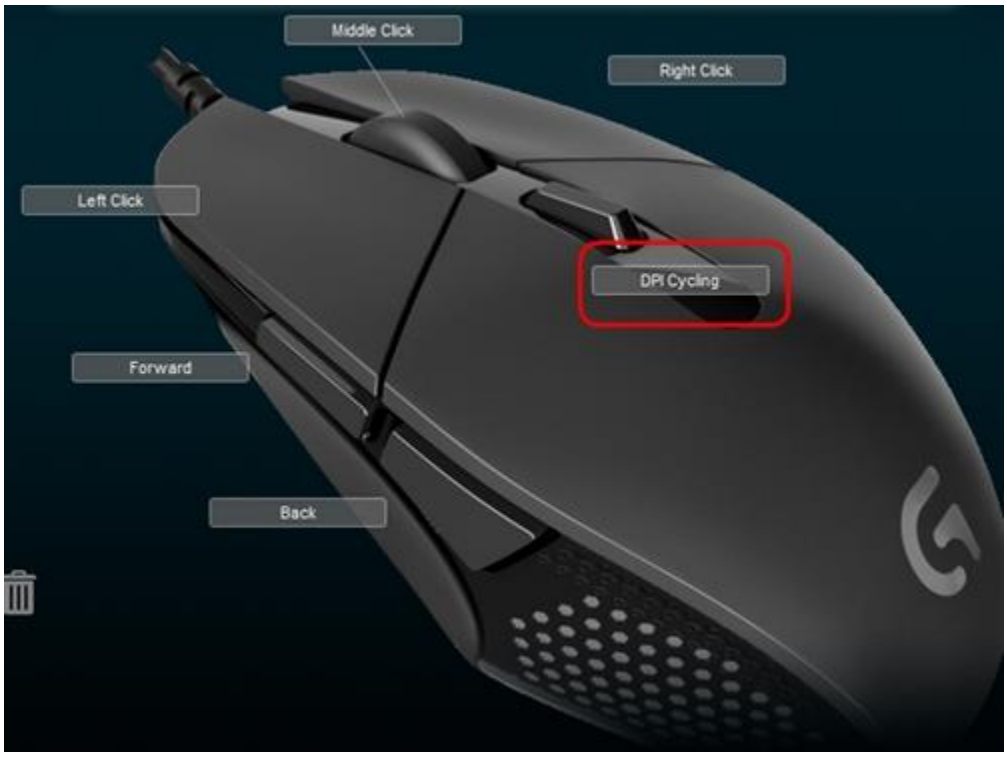


In this window, you can assign a:

- **Keystroke** — Assign a single key press, or a key press with modifiers.
- **Multi Key** — Assign a "macro'd" series of keystrokes. (NOTE: You can set up these macros to function both with and without recorded time delays.)
- **Text Block** — Create a block of text to be typed out when the key is pressed (either with or without Unicode support).
- **Mouse Functions** — Assign a button on your mouse to use any of the available mouse button functions.
- **Media** — Set a mouse button to function like a media key you'd typically find on a keyboard.
- **Hotkeys** — Use a pre-defined keystroke command.

- **Shortcut** — Assign a button to launch a file/folder/drive on your computer.
- **Function** — Assign a button to act like a Microsoft function button (ex. to open your web browser).

After you've selected the function to assign to the button, click **OK**. This will apply the new function and you'll the command's name next to the button (ex. mouse function "DPI Cycling" assigned to Button 5 below).



IMPORTANT: At least one button must be configured as "Left Click" and one as "Right Click" at all times. To reprogram either of these buttons, you'll first have to assign that function to another button.

To reassign a button back to the standard behavior of the mouse, right-click the button and select "Use Generic".

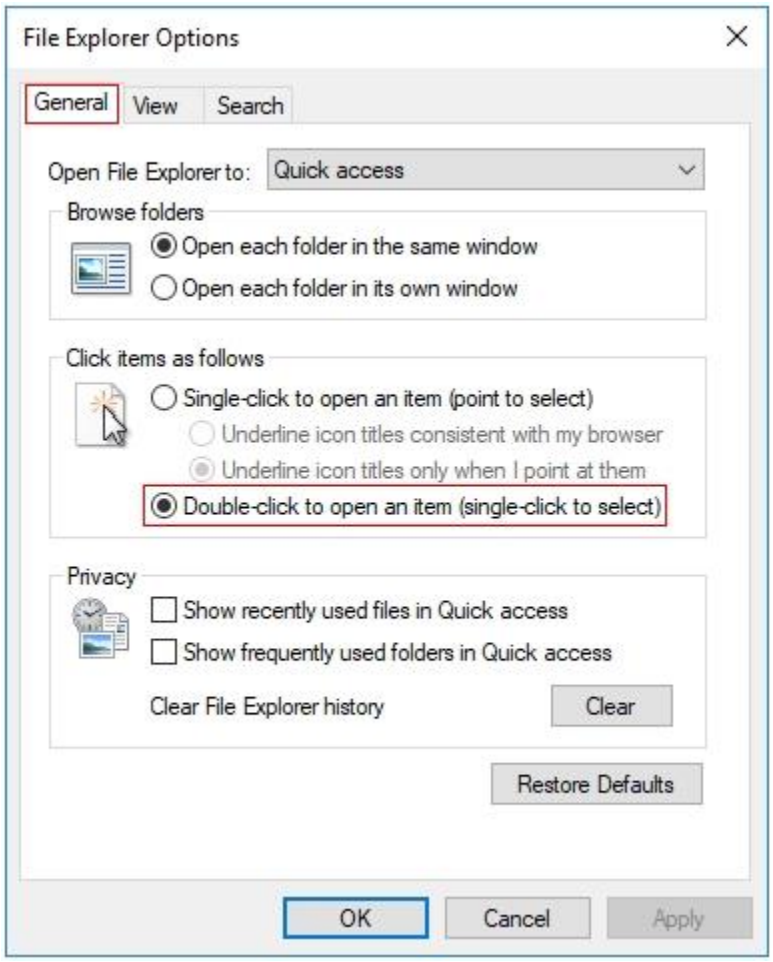
To un-assign a button, either right-click and select "Unassign" or drag the command from the button to the trash icon.

- +**Gaming mouse double-clicks when clicked once**

If your gaming mouse clicks two or more times when clicked once, try the troubleshooting steps below:

1. Disable the single-click to open option in Windows:

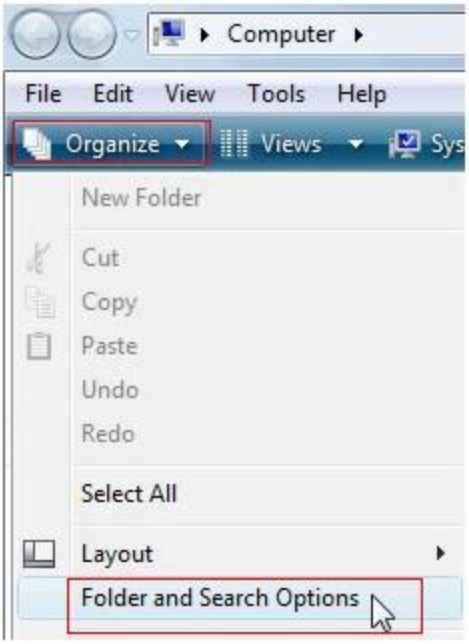
- Windows 8 or Windows 10
  - Click on the magnifying glass to bring up the Search menu, type ‘single-click’, and then select Specify single- or double-click to open.
  - Select the General tab, and under **Click items as follows**, make sure **Double-click to open an item (single-click to select)** is selected.



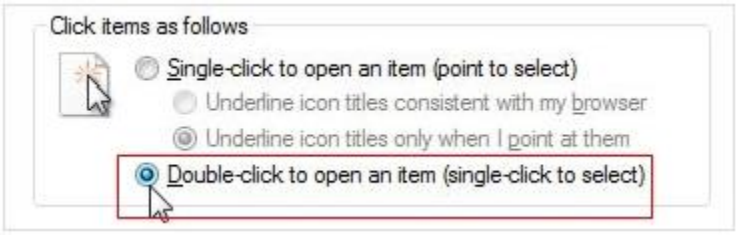
2. Windows 7 or Windows Vista:
   - Click on **Computer**.



   - On the menu bar, click **Organize** then **Folder and Search Options**.



- Under the **General** tab, make sure that the option **Double-click to open an item (single-click to select)** is selected.



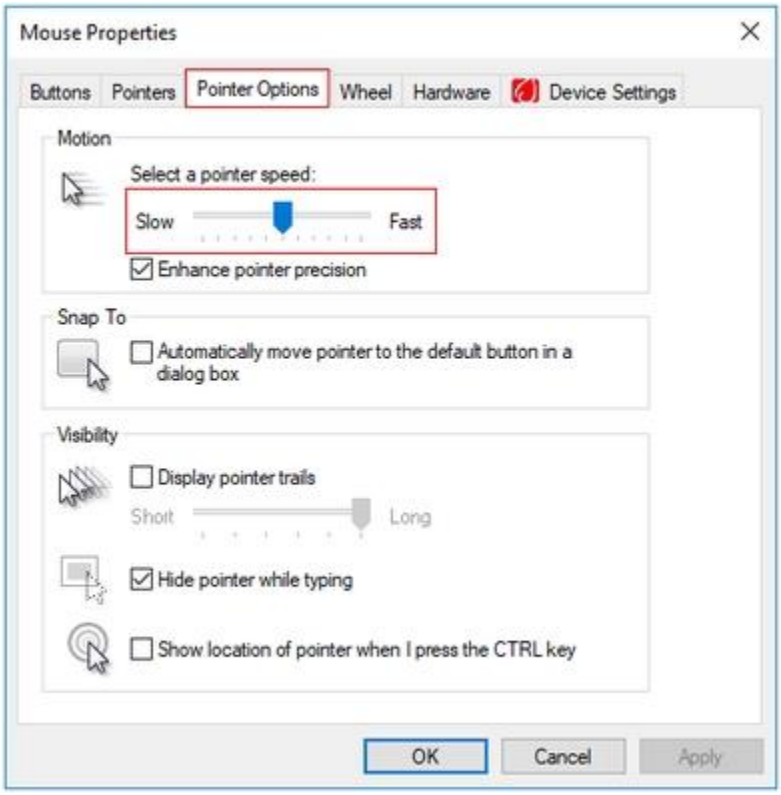
- Click **OK** to save and exit.

3. Test the mouse in multiple programs and components such as Control Panel or Windows Explorer on Windows, and Disk Utility or Finder on Mac OS. If the double-click is specific to one program, check the application settings or command assignments for the specific profile in Logitech Gaming Software.
4. Bypass any power hubs or extenders and connect your mouse cable or receiver to a different USB port on the computer's motherboard, if possible.
5. Test the mouse on a different computer that is functional.
6. Contact Logitech Support if the double-click issue appears on a different computer. Let us know what troubleshooting steps have been attempted.

- +**Inconsistent gaming mouse tracking behavior**

If the cursor for your gaming mouse stutters, or skips during general usage, try these troubleshooting steps:

1. If you have Logitech Gaming Software (LGS) installed:
    - Lower your DPI sensitivity in the **Customize Pointer Settings** tab.
    - If your gaming mouse supports surface tuning, tune your mouse to the surface in use. See Surface Tuning your gaming mouse for more information.
2. If you don't have LGS installed, lower your Pointer Speed in **Control Panel** > **Mouse** > **Pointer Options**:



3. If your mouse is wireless:
    - Recharge the mouse using the included cable or replace the batteries.
    - Make sure the mouse and USB receiver are at least 2 meters away from wireless routers and other 2.4 GHz wireless devices.
    - Keep the USB receiver within 20 cm of the mouse.
    - Temporarily disconnect any other wireless devices and observe the effect on the tracking performance.
4. The sensor lens may be dirty. Turn your mouse over and thoroughly clean any dirt or lint covering the lens.
5. Try using the mouse on a piece of white paper to make sure it isn't a tracking issue on a particular surface you're using.

If none of these suggestions work, please contact Logitech Support and let us know what troubleshooting steps you've tried.

- **+Solved - Issue with USB devices after Windows 10 update KB4074588**

Logitech is aware of a Microsoft update (OS Build 16299.248) which is reported to affect USB support on Windows 10 computers.

Support statement from Microsoft
"After installing the February 13, 2018 security update, KB4074588 (OS Build 16299.248), some USB devices and onboard devices, such as a built-in laptop camera, keyboard or mouse, may stop working for some users."

If you are using Microsoft Windows 10, (OS Build 16299.248) and are having USB-related issues. Microsoft has released a new update KB4090913 (OS Build 16299.251) to resolve this issue.

We recommend you follow Microsoft Support recommendations and install the latest Microsoft Windows 10 update: https://support.microsoft.com/en-gb/help/4090913/march5-2018kb4090913osbuild16299-251.

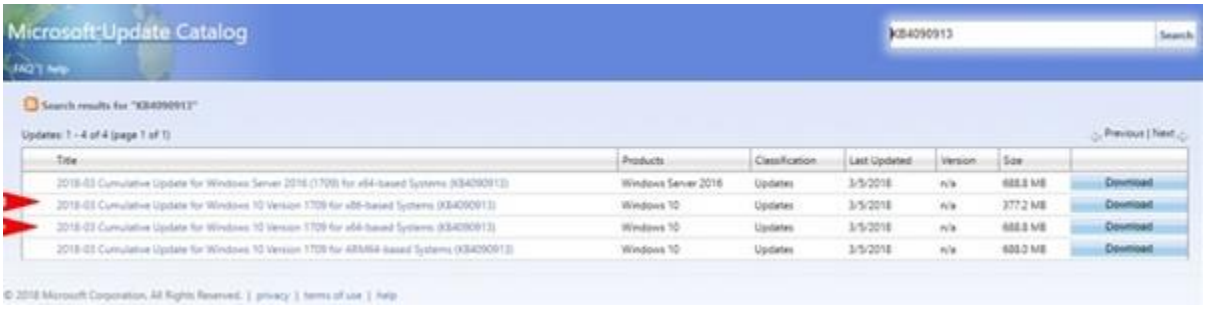
This update was released by Microsoft on March 5th in order to address the USB connection issues and should be downloaded and installed automatically using Windows Update.

For instructions on installing the latest Microsoft update, please see below:

- If you have a working keyboard/mouse
- If you have a non-working keyboard/mouse

If you have a working keyboard/mouse:

1. Download the latest Windows update from Microsoft.
2. If your operating system is 86x-based, click on the second option. If your operating system is 64x-based, click on the third option.



3. Once you have downloaded the update, double-click on the downloaded file and follow the on-screen instructions to complete the update installation.

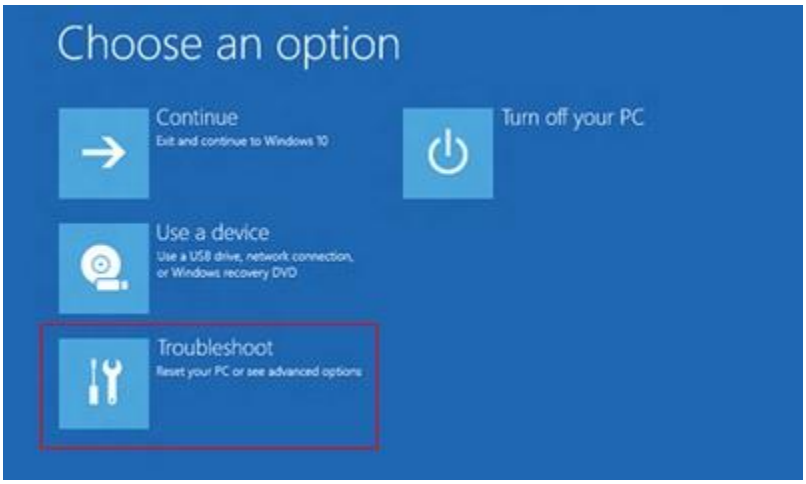
NOTE: If you wish to install the update manually, you can download the 86x and 64x versions of the update from http://www.catalog.update.microsoft.com/360023357433.aspx?q=KB4090913

If you currently have no working keyboard/mouse:

For more information, see the Microsoft article on how to start and use the Windows 10 Recovery Environment (WinRE):
https://support.microsoft.com/en-us/help/4091240/usb-devices-may-stop-working-after-installing-the-february-13-2018-upd

Do the following:

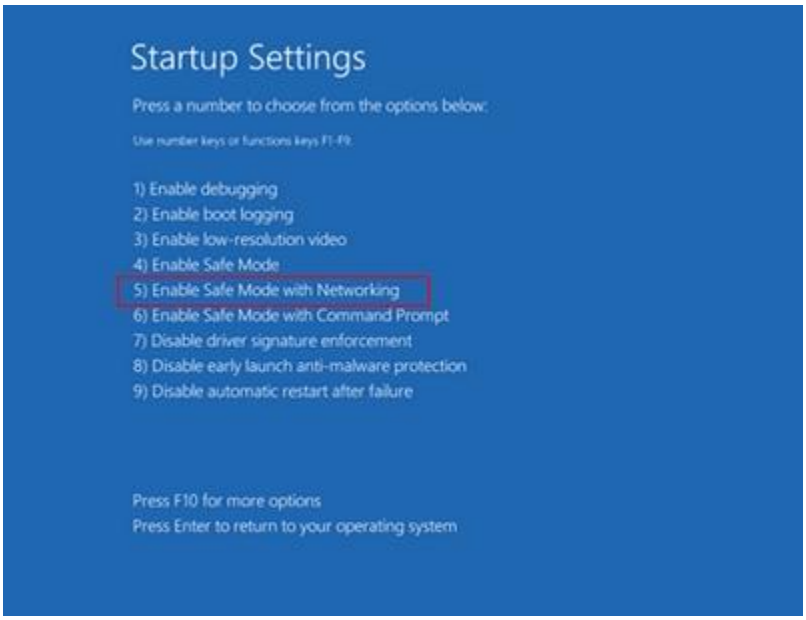
1. Restart the system before Windows finishes loading the desktop three times in a row. Windows should automatically start the Windows 10 Recovery Environment (WinRE).



2. Once in WinRE select **Troubleshoot** > **Advanced Options** > **Startup Settings**.
3. In the bottom right corner of the window, click **Restart**.



4. Press **5** on your keyboard to select **Enable Safe Mode with Networking**.



5. In Windows Safe Mode, navigate to Windows Settings (**Win+I**) > **Update and Security** > **Windows Update** and install the latest updates.

- +**List of Logitech Gaming Software default starting profiles**

As of the release of LGS v8.98.234.

- 007 Nightfire
- 2002 FIFA World Cup
- 4X4 Evolution
- Act of War
- Age of Conan: Hyborian Adventures
- Age of Mythology
- Agents of Mayhem
- Aion
- Alien: Isolation
- Aliens vs. Predator - Steam
- Aliens vs. Predator 2
- Allegiance
- Alone in the Dark
- American Truck Simulator
- America's Army
- Anachronox
- Asheron's Call 2
- Assassin's Creed
- Assassin's Creed 2
- Assassin's Creed Brotherhood

- Assassin's Creed IV Black Flag (Multiplayer)
- Assassin's Creed IV Black Flag (Single Player)
- Assassin’s Creed Origins
- Assassin's Creed Unity
- Assetto Corsa
- Asura
- Attack Squadron
- Auto Assault
- B17 Flying Fortress
- Baldur's Gate
- Baldur's Gate 2*Shadows of Amn
- Batman: Arkham Asylum
- Batman: Arkham City
- Batman: Arkham Origins (Online)
- Batman: Arkham Origins (Single Player)
- Battle for Naboo
- Battle of Britain
- Battleborn
- Battlefield 1
- Battlefield 1942
- Battlefield 2
- Battlefield 2142
- Battlefield 3
- Battlefield 4
- Battlefield Bad Company 2
- Battlefield Hardline
- Battlefield Vietnam
- BattleZone 2
- Beetle Buggin'
- Beyond Good & Evil
- Bionic Commando - Steam
- Bionic Commando (Steam)
- Bioshock
- BioShock 2 (Multiplayer)
- BioShock 2 (Single Player)
- BioShock Infinite
- Birth of the Federation
- Black Thorn
- BlackHawk Down
- Blacklight Retribution
- BloodRayne
- Blur
- Borderlands
- Borderlands 2
- Borderlands: The Pre-Sequel
- Brink

- Broken Sword
- Brood War
- Brothers In Arms Hell's Highway
- Brothers In Arms: Earned in Blood
- Brothers in Arms: Road to Hill 30
- Bulletstorm
- Burnout Paradise
- C&C Red Alert 2
- C&C Renegade
- C&C Tiberian Sun
- Caesar 3
- Call of Duty
- Call of Duty : Infinite Warfare
- Call of Duty 4 - Multiplayer
- Call of Duty 4 - Single Player
- Call of Duty 4: Modern Warfare (Multi-player)
- Call of Duty 4: Modern Warfare (Single Player)
- Call of Duty Advanced Warfare
- Call of Duty: BLACK OPS
- Call of Duty: Black Ops II (multi player)
- Call of Duty: Black Ops II (single player)
- Call of Duty: Black Ops III
- Call of Duty: Ghosts
- Call of Duty: Modern Warfare 2 (Multi-player)
- Call of Duty: Modern Warfare 2 (Single Player)
- Call of Duty: Modern Warfare 3 (Multi-player)
- Call of Duty: Modern Warfare 3 (Single Player)
- Call of Duty: World at War (Multiplayer)
- Call of Duty: World at War (Single Player)
- Call of Duty: WWII
- Call of Juarez - Bound In Blood (Steam)
- Carmageddon 2
- Champions Online
- Chronicles of Riddick
- City of Heroes
- City of Heroes/City of Villains
- Civ IV: Colonization
- Civilization IV
- Clone Campaigns
- Cloudy With A Chance of Meatballs
- Cold Zero
- Colin McRae Rally 2.0
- Comanche 4
- Combat
- Combat Flight Sim 2
- Combat Flight Simulator

- Combat Flight Simulator 3
- Command & Conquer 3 Tiberium Wars
- Commandos Strike Force
- Conflict Desert Storm
- Counter-Strike
- Counter-Strike Source
- Counter-Strike: Global Offensive
- Crashday
- Crimson Skies
- Cryostasis
- Crysis
- Crysis 2 - Steam
- Crysis Warhead
- Crysis Wars
- Daikatana
- DAoC - Shrouded Isles
- Dark Age of Camelot
- Dark Reign 2
- Dark Souls II
- Dark Souls III
- Dark Void
- Darkspore (Steam)
- Darkstone
- Dawn of War
- Day of Defeat: Source (HL engine)
- DCS Black Shark
- Dead Island (Steam)
- Dead Space 2
- Deadly Dozen
- Deadspace
- Default Profile
- Delta Force 2
- Descent 3
- Desperados 2 Cooper's Revenge
- Destiny 2
- Deus Ex
- Deus Ex: Human Revolution (Steam)
- Deus Ex: Mankind Divided
- Devil May Cry - DirectX 10
- Devil May Cry 4 - DirectX 10
- Devil May Cry 4 - DirectX 9
- Diablo II
- Diablo II - Lord of Destruction
- Diablo III
- Die Hard Nakatomi Plaza
- Dig Dug Deeper

- Dirt
- Dirt 2
- DiRT 3
- DiRT Rally
- Dirt Track Racing
- Dishonored
- Dishonored 2
- Distance
- Divine Divinity
- DOOM
- Doom 3
- Dota 2
- Dragon Age - Origins
- Dragon Age 2
- Dragon Age: Inquisition
- DS Legends of Aranna
- Duke Nukem Forever - Steam
- Dune 2000
- Dungeon Keeper 2
- Dungeon Siege
- Dungeon Siege III
- Dungeons & Dragons Online Stormreach
- El Matador
- Elder Scrolls IV - Oblivion
- Elite: Dangerous
- Emperor RotMK
- Emperor's Tomb
- Empire Earth 3
- Enemy Territory - QUAKE Wars
- Enemy Territory- Quake Wars
- Enter the Matrix
- Escape From Monkey Island
- Euro Truck Simulator 2
- Eurofighter Typhoon
- European Air War
- EverQuest
- EverQuest 2
- Evolve
- Excel 2013
- F.E.A.R.
- F.E.A.R. 2
- F.E.A.R. 3
- F1 2000
- F1 2002
- F1 2015
- F22 Lightning 3

- Fable III
- Falcon 4.0: Allied Force
- Falcon AF
- Fallout 3
- Fallout: New Vegas
- Far Cry
- Far Cry 2
- Far Cry Primal
- Farming Sim 15
- Fate of the Dragon
- FEAR2
- Fellowship of the Ring
- FIFA 2001
- FIFA 2002
- FIFA 2003
- Fighter Ace 2
- Fighter Squadron
- Fleet Command
- Flight Sim 2002
- Flight Simulator 2000
- Flight Simulator X
- Fly 2K
- Fly* II
- For Honor
- Force Commander
- Fortnite
- Freedom Fighters
- Freedom Force
- Freedom Force vs. The 3rd Reich
- Freespace 2
- Frontlines - Fuel of War
- FUEL
- Galactic Battlegrounds
- Garry's Mod
- Gas Guzzlers Extreme
- Gears of War
- Generals
- Ghost Recon
- Ghost Recon AW2 - Single Player
- Ghost Recon Wildlands
- Giants* Citizen Kabuto
- Gigantic
- Global Operations
- Godfather 2
- Gothic
- Grand Prix 3

- Grand Prix 4
- Grand Prix Legends
- Grand Theft Auto Episodes from Liberty City
- Grand Theft Auto III
- Grand Theft Auto V
- Grand Theft Auto: San Andreas - Steam
- GRID
- GRID 2
- GrID Autosport
- Gruntz
- GT Legends
- GTA Vice City
- GTA4
- GTR
- GTR 2
- GTR: Evolution (Offline)
- Guild Wars
- Guild Wars 2
- Gun
- Half-Life
- Half-Life 2, EP1, EP2, Deathmatch
- Halo 2
- Harley* Race Across America
- Harry Potter
- Harry Potter II* COS
- Hawken
- Heavy Gear 2
- Hellgate: London
- Heroes of the Storm
- Heroes V - Might and Magic
- Hidden & Dangerous
- Hidden & Dangerous 2
- High Heat 2003
- High Heat Baseball 2001
- Hitman
- Hitman 2
- Homefront -Steam
- Homefront: The Revolution
- Homeworld Cataclysm
- Homeworld Remastered Collection
- Hunted: The Demon's Forge
- Hydrophobia: Prophecy (Steam)
- Icewind Dale
- Icewind Dale II
- IGI 2 Covert Strike
- IL-2 Forgotten Battles

- IL-2 Forgotten Battles (Steam)
- IL2 Sturmovik
- iRacing
- Ironman
- James Bond: Blood Stone
- Jane's FA-18
- Jane's WWII Fighters
- Jedi Knight II Jedi Outcast
- Jericho
- Just Cause 2
- Kane & Lynch - Dead Men
- Kingdom Come: Deliverance
- Kingdoms of Amalur
- Knights of the Old Republic
- KOTOR 2
- Land Warrior
- LawBreakers
- League of Legends
- Left4Dead
- Left4Dead2
- Legendary
- Lego Batman
- LEGO Harry Potter: Years 1-4
- Lego Indiana Jones The Original Adventures
- Lego Star Wars III: The Clone Wars
- Lego Universe
- Lineage II
- Lock On
- Lord of the Rings Online
- Lord of the Rings: War in the North (Steam)
- LOTR Battle for Middle Earth
- Mad Max
- Madballs In Babo: Invasion (Steam)
- Madden 2002
- Madden 2003
- Madden NFL 2001
- Mafia III
- Magicka (Steam)
- Mass Effect: Andromeda
- Mass Effect
- Mass Effect 2
- Mass Effect 3
- Master of Orion
- Matrix Path of Neo
- Max Payne
- Max Payne 2: The Fall of Max Payne

- MDK 2
- Mech Commander
- MechWarrior 4
- Medal of Honor - Multiplayer
- Medal of Honor - Single Player
- Medal of Honor Airborne
- Medal of Honor Pacific Assault
- Medal of Honor Warfighter
- Medal of Honor* Allied Assault
- Men of War
- Mercenaries 2: World in Flames
- Messiah D3D
- Metal Gear Solid
- METAL GEAR SOLID V: THE PHANTOM PAIN
- Metal Gear Survive
- Michelin Rally Masters
- Middle-earth: Shadow of Mordor
- Middle-earth: Shadow of War
- Midtown Madness 2 *Gamepad*
- Midtown Madness 2 *Joystick*
- Midtown Madness 2 *Wheel*
- Mig Alley
- Might and Magic VIII
- Mirror's Edge
- Mobile 1 Rally
- Monaco Grand Prix 2
- Monopoly Tycoon
- Monster Truck Madness 2
- Morrowind
- Mortal Kombat 4
- Moto Racer 3
- Motocross Madness 2
- MS Baseball 2001
- MS Flight Simulator 2004
- MW 4 Black Knight
- NASCAR 4
- NASCAR Racing 2003 Season
- NASCAR Revolution
- NASCAR Thunder 2004
- Natural Selection 2
- NBA Live 2000
- NBA Live 2003
- Need For Speed High Stakes
- Need for Speed Porsche Unleased
- Need for Speed SHIFT
- Need for Speed Undercover

- Need For Speed Underground 2
- Neverwinter Nights
- Neverwinter Nights 2
- Neverwinter Online
- NFS 2016
- NFS Hot Pursuit
- NFS Hot Pursuit 2
- NFS Underground
- NHL 2001
- NHL 2002
- NHL 2004
- Night At The Museum 2
- No Man's Sky
- No One Lives Forever
- No One Lives Forever 2
- Nosferatu
- Nox
- Operation Flashpoint
- Operation Flashpoint: Red River
- Overlord
- Overwatch
- Pac-Man Adventures in Time
- Phantom Menace
- Photoshop CC
- Pirates of the Burning Sea
- Pirates!
- Planetside
- Planetside 2
- PLAYERUNKNOWN’S BATTLEGROUNDS
- Pod Racer
- Portal (HL2 engine)
- Portal 2
- Powerslide
- Prey
- Prey (2017)
- Prince Caspian - Chronicles of Narnia
- Prince of Persia
- Project CARS
- Project Cars 2
- Project Eden
- Project IGI
- Prototype
- Pure
- Quake 3 Arena
- Quantum of Solace
- Quidditch World Cup

- R6* Covert Opertions
- RACE 07
- RaceRoom
- RAGE
- Railroad Tycoon 2
- Railroad Tycoon 2 Gold
- Railroad Tycoon 2 TSC
- Rainbow Six
- Rainbow Six Siege
- Rainbow Six Vegas
- Rainbow Six Vegas 2
- Rainbow Six: Lockdown
- Rally Trophy
- Raven Shield
- Real War
- Red Faction II
- Red Faction: Armageddon (Steam)
- Red Faction: Armageddon (Steam) (DX11)
- Red Orchestra
- Resident Evil 4
- Resident Evil 5
- Resident Evil 7
- rFactor
- rFactor 2
- Rift
- Rise of Legends
- Rise of Nations
- Rise of Nations: Thrones and Patriots
- Rogue Spear
- Rogue Squadron 3D
- Roller Coaster Tycoon
- Rome Total War
- Rubies of Eventide
- Rust
- Rusty Hearts
- Savage
- Sebastien Loeb Rally EVO
- Section 8
- Section 8: Prejudice
- Serious Sam
- Serious Sam 2nd Encounter
- Serious Sam 3: BFE (Steam)
- Shadowrun
- Shogo Mobile Armor Division
- Sid Meier's Civilization V
- Sid Meier's Civilization VI

- Sid Meier's Railroads!
- Sim Theme Park
- SimCity 3000
- SimCity Societies
- Simpson's Hit & Run
- Sims 2
- Sin
- Sin Episodes Emergence
- Singularity
- Sniper: Ghost Warrior 2
- Soldier Of Fortune
- Soldier of Fortune II
- Soldier of Fortune Payback
- South Park The Fractured But Whole
- Space Interceptor
- Speedway Grand Prix
- Spintires
- Splinter Cell
- Splinter Cell: Conviction
- Spore
- Stalker Clear Sky
- Star Trek Armada
- Star Trek Online
- Star Wars - The Old Republic
- Star Wars Battlefront
- Star Wars Battlefront 2
- Star Wars: Battlefront II
- Star Wars Empire at War
- Star Wars Galaxies
- Star Wars The Clone Wars Republic Heroes (Steam Edition)
- Star Wars: Battlefront
- Starcraft
- StarCraft II
- Starfighter
- StarLancer
- StarSiege
- Starsiege Tribes
- Starsky & Hutch
- StarTopia
- Stock Car Extreme
- Stranglehold
- Sub Command
- Superbike 2001
- Supreme Commander
- Supreme Commander - Forged Alliance
- SW - Republic Commando

- Swat 3
- SWAT 4
- Sydney 2000
- TA Kingdoms
- Tabula Rasa
- Tactical Ops
- Task Force Dagger
- Team Fortress 2 (HL2 engine)
- Tera
- Terraria
- Test Drive 6
- Test Drive Le Mans
- Test Drive Offroad 3
- Test Drive Unlimited
- The Club
- The Crew
- The Darkness II
- The Elder Scrolls V: Skyrim (Steam)
- The Elder Scrolls V: Skyrim Special Edition(Steam)
- The Evil Within
- The Evil Within 2
- The Incredible Hulk
- The Movies
- The Secret of Monkey Island: Special Edition (Steam Version)
- The Settlers - Rise of an Empire
- The Sims 1024
- The Sims 2
- The Sims 800
- The Sims Medieval
- The Sum of All Fears
- The Witcher
- The Witcher 2
- The Witcher 3: Wild Hunt
- Thief 2* The Metal Age
- Thrillville: Off the Rails
- Tiger Woods 2003
- Tiger Woods 99
- TimeShift
- Titan Quest
- Titan Quest - Immortal Throne
- Titanfall
- Titanfall 2
- TOCA 2
- Tom Clancy's H-A-W-K
- Tom Clancy's The Division
- Tomb Raider AoD

- Tomb Raider: Anniversary
- Tonka Monster Trucks
- Tony Hawk 3
- Tony Hawk 4
- Torchlight II
- Trackmania United Forever
- Train Simulator
- Transformers: Fall of Cybertron
- Transformers: War of Cybertron
- Triple Play 2000
- Tron 2.0
- Turning Point - Fall of Liberty
- Tyranny
- Ultimate Demolition Derby
- Universe At War
- Unreal II
- Unreal Tournament 2003
- Unreal Tournament 2004
- Unreal Tournament 3
- US Special Forces
- USAF
- Vampires Bloodlines
- Vendetta Online
- Wacky Races
- Wall-E
- Wanted Weapons Of Fate - Steam
- War Front - Turning Point
- Warcraft 3: The Frozen Throne
- WarCraft III* Reign of Chaos
- Warframe
- WarHammer 40k
- Warhammer 40K Space Marine (Steam)
- Warhammer Online: Age of Reckoning
- Watch Dogs 2
- Watch_Dogs
- Wheelman
- Wolfenstein
- Wolfenstein: The New Order
- Wolfenstein II: The New Colossus
- Word 2013
- World in Conflict
- World of Tanks
- World of Warcraft
- World Racing
- XCOM 2
- XCOM: Enemy Unknown

- X-Wing Alliance
- You are Empty
- Yuri's Revenge
- Zanzarah
- 御龙在天 (Dragon Power)

- **+Logitech Gaming Software for Mac Release Notes**

- Version 8.98.306
- Version 8.96.40
- Version 8.96.38
- Version 8.96.36
- Version 8.94.35
- Version 8.92.37
- Version 8.89.38
- Version 8.87.92

Version 8.98.306

- **Post Date:** 1-MAY-2018
- **OS:** Mac OS X 10.11.x, Mac OS X 10.12.x, Mac OS X 10.13.x
- **Why Update?**
    - Added support for:
        - G560 LIGHTSYNC PC Gaming Speaker (DTS-X Surround Sound and Audio Visualizer not supported)
        - G513 Silver RGB Mechanical Gaming Keyboard
        - G513 Carbon RGB Mechanical Gaming Keyboard
        - G512 Carbon RGB Mechanical Gaming Keyboard
        - G430 Gaming Headset (Dolby 7.1 Surround Sound not supported)
        - G433 Gaming Headset (DTS Headphone:X® 7.1 Surround Sound not supported)
        - G533 Wireless Gaming Headset (DTS Headphone:X® 7.1 Surround Sound not supported)
        - G633 Artemis Spectrum (DTS Headphone:X® 7.1 and Dolby 7.1 Surround Sound not supported)
        - G933 Artemis Spectrum and Artemis Spectrum Snow Wireless Gaming Headset (DTS Headphone:X® 7.1 and Dolby 7.1 Surround Sound not supported)
    - Improved the UI for C920 & C922 cameras to be more consistent with other supported cameras

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Version 8.96.40

- **Post Date:** 12-MAR-2018

- **OS:** Mac OS X 10.10.x, Mac OS X 10.11.x, Mac OS X 10.12.x
- **Why Update?**
    - Added support for:
        - G603 Wireless Gaming Mouse
        - G613 Wireless Mechanical Gaming Keyboard
        - BRIO 4K STREAM EDITION Camera
    - Added a firmware update for the G102 and G203 to increase the max sensor DPI to 8000
    - Added option to gather anonymous data to help us understand how LGS is used so we can improve it in future releases
    - Minor bug fixes

Version 8.96.38

- **Post Date:** 18-OCT-2017
- **OS:** Mac OS X 10.10.x, Mac OS X 10.11.x, Mac OS X 10.12.x
- **Why Update?**
    - Added support for:
        - G603 Wireless Gaming Mouse
        - G613 Wireless Mechanical Gaming Keyboard
        - BRIO 4K STREAM EDITION Camera
    - Added a firmware update for the G102 and G203 to increase the max sensor DPI to 8000
    - Added option to gather anonymous data to help us understand how LGS is used so we can improve it in future releases
    - Minor bug fixes

Version 8.96.36

- **Post Date:** 19-SEP-2017
- **OS:** Mac OS X 10.10.x, Mac OS X 10.11.x, Mac OS X 10.12.x
- **Why Update?**
    - Added support for:
        - G603 Wireless Gaming Mouse
        - G613 Wireless Mechanical Gaming Keyboard
        - BRIO 4K STREAM EDITION Camera
    - Added a firmware update for the G102 and G203 to increase the max sensor DPI to 8000
    - Added option to gather anonymous data to help us understand how LGS is used so we can improve it in future releases
    - Minor bug fixes

Version 8.94.35

- **Post Date:** 1-AUG-2017
- **OS:** Mac OS X 10.10.x, Mac OS X 10.11.x, Mac OS X 10.12.x
- **Why Update?**
    - Support added for:
        - POWERPLAY Wireless Charging System
        - G703 LIGHTSPEED Wireless Gaming Mouse
        - G903 LIGHTSPEED Wireless Gaming Mouse
    - Minor bug fixes

Version 8.92.37

- **Post Date:** 19-APR-2017
- **OS:** Mac OS X 10.10.x, Mac OS X 10.11.x, Mac OS X 10.12.x
- **Why Update?**
    - Support added for:
        - G90 Gaming Mouse
        - Pro Mechanical Gaming Keyboard
        - G413 Mechanical Gaming Keyboard
    - Firmware Update:
        - LogiProGamingKeyboardUpdate_v13 - Optimizes key response rates for faster gaming performance.
    - Minor bug fixes

Version 8.89.38

- **Post Date:** 16-FEB-2017
- **OS:** Mac OS X 10.10.x, Mac OS X 10.11.x, Mac OS X 10.12.x
- **Why Update?**
    - Support added for:
        - G102 Prodigy Gaming Mouse
        - G203 Prodigy Gaming Mouse (black only)
        - C922 Pro Stream Webcam
    - New Features:
        - Custom Lighting Effects Editor added to the Lighting view for per-key RGB keyboards
            - G410 Altas Spectrum
            - G810 Orion Spectrum
            - G910 Orion Spectrum
            - G910 Orion Spark
        - Optional firmware update for the G610 Orion keyboard to address a high pitch whine on some keyboards
    - Firmware Update:

        - G410Update_v14 - Enhanced lighting effects performance for use with Lighting Editor features.
        - G610Update_v12 - Eliminates noise that occurred at some lighting levels and settings.
        - G810Update_v31 - Enhanced lighting effects performance for use with Lighting Editor features.
        - G910Update_v26 - Enhanced lighting effects performance for use with Lighting Editor features.
        - G910R2Update_v7 - Enhanced lighting effects performance for use with Lighting Editor features.
    - Minor bug fixes

Version 8.87.92

- **Post Date:** 12-OCT-2016
- **OS:** Mac OS X 10.10.x, Mac OS X 10.11.x, Mac OS X 10.12.x
- **Why Update?**
    - Support added for:
        - G403 Prodigy Gaming Mouse
        - G403 Prodigy Wireless Gaming Mouse
        - G213 Prodigy Gaming Keyboard
        - Pro Gaming Mouse
        - C920 HD Pro Webcam
        - C930e Pro Webcam
        - G29 Driving Force
        - G920 Driving Force
        - G610 Orion US-International Keyboard (PID_338)
        - G810 Orion Spectrum US-International Keyboard (PID_337)
    - Firmware Update:
        - G910Update_v22: Fixed an issue where the Caps, Num, and Scroll Lock indicator lights may not show the correct status.
        - G810Update_v27: Fixed an issue where the Caps, Num, and Scroll Lock indicator lights may not show the correct status.
        - G920Update_96_3_49:
        - Fixed an issue with missing forces in rFactor 2.
        - Removed single-sided damping effect at low forces.
        - Fixed various minor issues with Force Feedback on PC.
        - Wheel range no longer resets to 900 degrees when entering XBox One dashboard.
    - Release Notes:
        - G920 Driving Force is not supported in Euro Truck Simulator 2 and American Truck Simulator
        - G29 Driving Force is not supported in GRID Autosport

- **+Create and scan for profiles with Logitech Gaming Software**

Logitech Gaming Software (LGS) includes support for approximately six hundred games as of release 8.91. When you run the software for the first time, it should scan and automatically set up game profiles for you. If you install more games later, you can rescan for supported games and have profiles imported for them. You use profiles to customize pointer, lighting or G-key/function key command assignments for every individual game and application. If you prefer, you can also just use one profile for all your games and applications.

There are two ways to set up profiles for your games or applications:

- Scan for new games
- Create new profiles

Scan For New Games

Logitech Gaming Software's game profiles are created using registry entries from either Steam, uPlay, Battle.net, or Origin. Certain game profiles are associated with multiple publisher's registry entries, but the majority are linked to the Steam registry entry, excluding the games that are available exclusively on Battle.net or Origin. See a complete list of games here.

1. Open Logitech Gaming Software (LGS).
2. Navigate to the Home window for your mouse, keyboard or headset.
3. Select **Customize buttons**, **Customize Function keys** or **Customize G-keys** depending on the device.
4. In the Profiles pane, click **Scan For New Games**.



5. Once the profiler has completed its scan, click **OK** to add the profiles to your list.
   NOTE: A profile for the selected game should appear in the Profiles pane.

If you own a game that is not automatically detected by the Scan for New Games feature, you can make a few minor adjustments to set up the profile. For more information, please see Scan For New Games does not detect game in Logitech Gaming Software.

Create new profiles

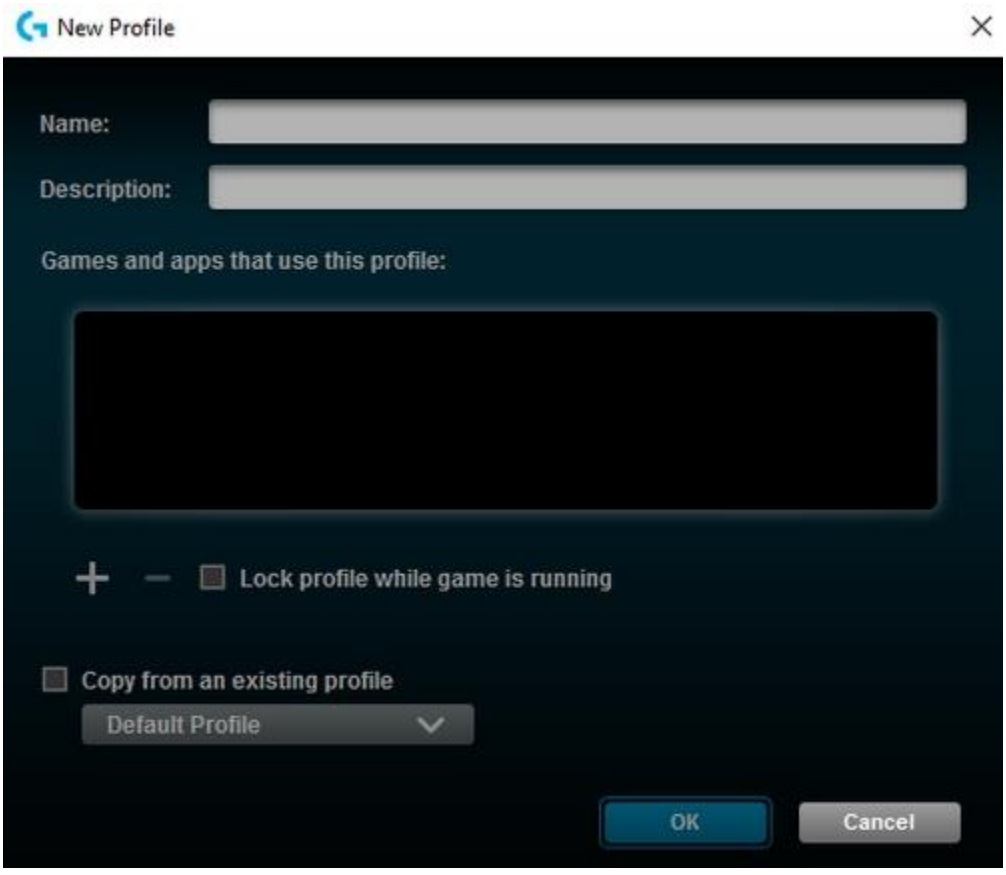
If the Scan For New Games list does not contain the game you want, LGS offers the ability to create your own profile. Here's how:

TIP: LGS can store profiles for any program executable (.exe) file. Use this to customize commands assignments for productivity programs.

1. Open Logitech Gaming Software (LGS).
2. Navigate to the Home window for your mouse, keyboard or headset.
3. Select **Customize buttons**, **Customize Function keys** or **Customize G-keys** depending on the device.
4. In the Profiles pane, click **Create new profile** ("+").



The **New Profile** window appears:



5. Type distinct names for your profile in the **Name** and **Description** boxes.



6. Click "+" and use the Windows Explorer window that appears to navigate to and open your executable (.exe) file.
   NOTE: You can assign multiple executable files to the same LGS profile.
7. Select the checkbox to **Lock profile while game is running** to prevent other profiles from becoming active while your game or application is running.
8. If you prefer to use another profile's lighting, command assignment or pointer settings as a starting point, select the checkbox to **Copy from an existing profile**. Use the drop-down menu to select a profile to copy settings from.
9. Click **OK** to save changes and add the new profile.
   NOTE: A new profile for the game or application should appear in the Profiles pane.

- +**View current profiles in Logitech Gaming Software**

To see your current gaming profiles in Logitech Gaming Software (LGS) for your gaming mouse, keyboard or headset:

1. Open Logitech Gaming Software
2. Select your product by using the arrows at the bottom left of the LGS window.



3. Do one of the following, depending upon your device type:
   - Mouse — click **Customize Buttons** if your mouse is in Automatic Game Detection mode. Click **Customize on-board profile** if your mouse is in On-Board Memory mode.



   - Keyboard — click **Customize Function Keys** or **Customize G-Keys**.



- Headset — click **Customize G-Keys**.



4. The profiles you've created will show in alphabetical order in the **Profiles** area at the top of the window.



- **+Digital signature error when Logitech Gaming Software is installed on Windows 7 computers**

You may see a digital signature error when you install Logitech Gaming Software (LGS) on some Windows 7 computers. All recent versions of LGS require the following Microsoft Windows security update to be installed prior to installing LGS:

- Security Update for Windows 7 Systems (KB3033929)

The security update adds support for SHA-2 driver signing and verification functionality. There are two versions — one for Windows 7 32-bit (x86) and one for Windows 7 64-bit (x64). Make sure you've downloaded and installed the correct version for your computer before you install LGS.

- **+Enable Automatic Game Detection mode on the G PRO gaming mouse with Logitech Gaming Software**

You can use Logitech Gaming Software (LGS) version 8.87 or later to enable Automatic Game Detection mode for the G PRO gaming mouse. Here’s how:

1. Open LGS.
2. In the **Home** window, make sure the blue toggle marker is set to the right.



3. The mouse will now be in Automatic Game Detection mode and all customizations you make in LGS will be used when the corresponding game or application is launched and active on your computer.

- **+Customize lighting settings on the G PRO gaming mouse with Logitech Gaming Software**

You can use Logitech Gaming Software (LGS) 8.87 or later to customize lighting settings on your G PRO gaming mouse. If you don't have Logitech Gaming Software, you can get the latest version from the G PRO gaming mouse Download page.

1. Open the Logitech Gaming Software:
   Start > All Programs > Logitech > Logitech Gaming Software 8.87
2. In the G PRO **Home** window, select **On-Board Memory** or **Automatic Game Detection mode**.
   NOTE: For help choosing between the two, see Choose between G PRO gaming mouse On-Board Memory and Automatic Game Detection modes.
3. Click the **Lighting Settings** icon.



- Customize lighting settings in Automatic Game Detection mode
- Customize lighting settings in On-Board Memory mode

Customize lighting settings in Automatic Game Detection mode



- **Lighting Zone Selection:** In LGS, you can customize settings for the G logo. The lighting customization options affect both the G logo and side strip. You can apply light settings to the lighting zone or disable the lighting.
- **Lighting Effect:** Choose from the following options:
    - **Breathing Effect** — Select this option to activate a pulsating effect that simulates breathing. You can adjust the breathing effect's brightness and rate — click and drag the slider to the right to increase and to the left to decrease. Use the color selector on the left to assign a stock color, or create a custom color.
    - **Color Cycle** — Set the speed for how quickly the colors cycle on the mouse. Use the sliders to adjust the brightness and the speed.
    - **Enable per profile backlight settings** (Automatic Game Detection mode only) — The lighting customization options universally affect the G Pro gaming mouse by default. However, you can also configure lighting settings to be set on a per game profile basis. Select a game from the list to begin configuring lighting settings for that game's profile. Click "+" to add a new profile.
      NOTE: To delete a profile, in the **Profiles** pane, right-click on the profile, then select **Delete**.

- If you have other Logitech G devices, you can sync them with your customized lighting by clicking on the respective icon for that device.

Customize lighting settings in On-Board Memory mode



- **Lighting Zone Selection:** Apply light settings to the G logo lighting zone or disable the lighting. The lighting customization options affect both the G logo and side strip.
- **Lighting Effect:** Choose from the following options:
    - **Breathing Effect** — Select this option to activate a pulsating effect that simulates breathing. You can adjust the breathing effect's brightness and rate — click and drag the slider to the right to increase and to the left to decrease. Use the color selector on the left to assign a stock color, or create a custom color.
    - **Color Cycle** — Set the speed for how quickly the colors cycle on the mouse. Use the sliders to adjust the brightness and the speed.
- If you have other Logitech G devices, you can sync them with your customized lighting by clicking on the respective icon for that device.

- **+Surface tuning the G PRO gaming mouse**

You can use Logitech Gaming Software (LGS) 8.87 or later to tune your G PRO gaming mouse for maximum tracking accuracy on a variety of surfaces. If you don't have Logitech Gaming Software, you can get the latest version from this product's Download page.

1. Open LGS, and select the G PRO gaming mouse.
2. Click on the **Surface Tuning** icon.



3. In the Surface Tuning window, click on one of the listed presets that matches your usage environment. To create a custom surface tuning setting, click **Add new surface**.



NOTE: Factory Default is the default setting. Click **Apply** to restore the default settings.

4. In the text box, enter a name for the custom surface tuning setting, and then press **Enter**.

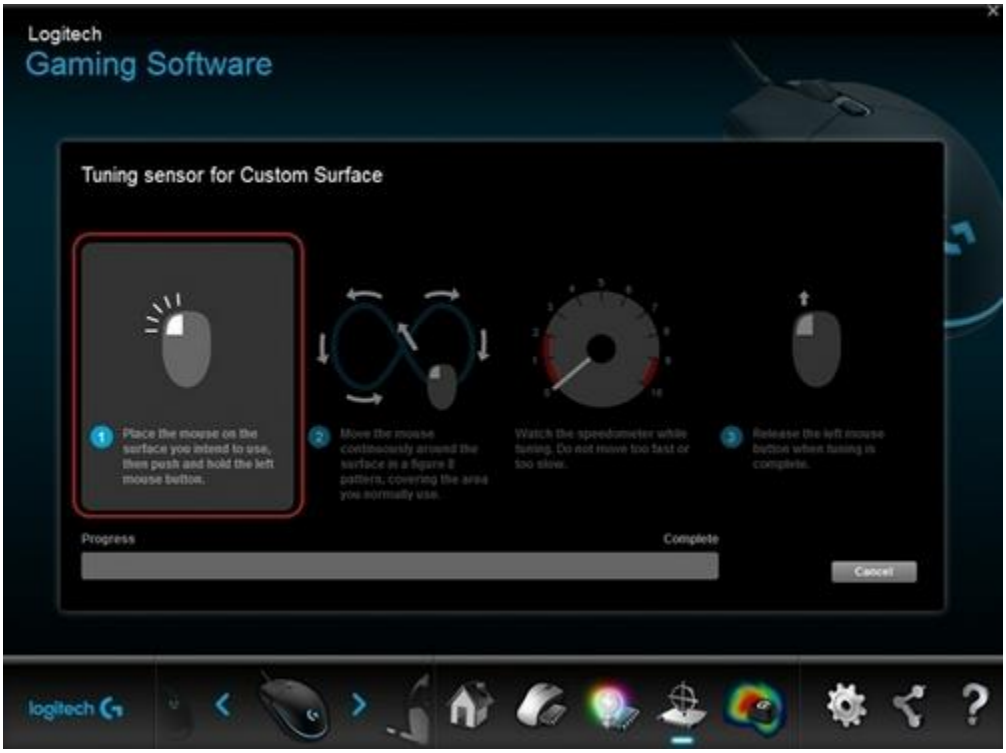


NOTE: To remove the custom surface tuning setting, click the **X** next to the appropriate listing.

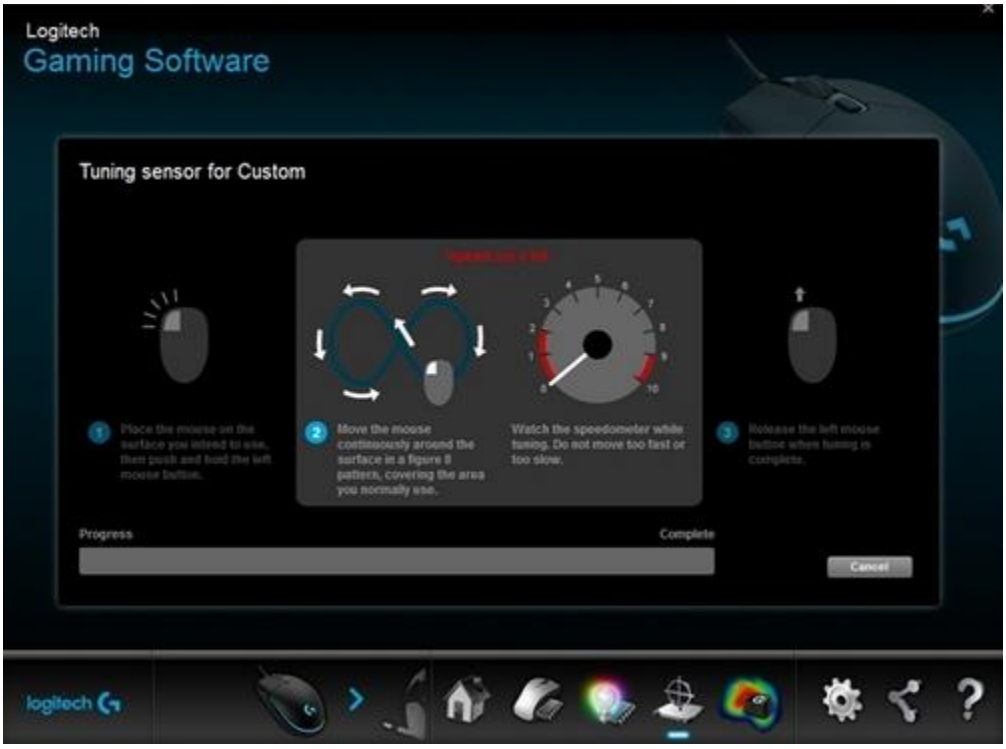
5. Click **Tune** to start custom surface tuning.



6. Place the mouse on the surface you intend to use, then push and hold the left mouse button.



7. While holding the left mouse button, move the mouse continuously around the surface in a figure 8 pattern, covering the area you normally use.



NOTE: Watch the speedometer while tuning. Do not move the mouse too fast or slow.

8. Release the left mouse button when the tuning process is complete.



NOTE: If the tuning process fails before completion, an error message will appear. If this happens, click **Cancel** and return to Step 6.

9. Click **Finish** to return to the Surface Tuning window.



- +**Enable G PRO gaming mouse on-board memory with Logitech Gaming Software**

You can use Logitech Gaming Software (LGS) version 8.87 or later to enable on-board memory on the G PRO gaming mouse. Here's how:

1. Open LGS.
2. In the **Home** window, make sure the blue toggle marker is set to the left.



3. The mouse will now be in On-Board memory mode and all of the customizations you make will be written directly to the mouse.

- **+Choose between G PRO gaming mouse On-Board Memory and Automatic Game Detection modes**

Your gaming mouse offers two different ways to manage pointer settings, button configuration, and lighting settings:

- **On-Board Memory** — The pointer settings, button configuration and lighting settings are written to the memory of the mouse. This allows you to configure the mouse on one computer, and then use your mouse on a different computer with no additional software or configuration. This setting is also useful if you want to only use one set of button configurations for all applications/games on your computer. See Enable G PRO gaming mouse on-board memory with Logitech Gaming Software for details.
- **Automatic Game Detection** — The pointer settings, button configuration and lighting settings are individually configured for every application and game on your computer. This setting is recommended for advanced users, and for when you want to assign specific commands for each application on your computer. See Enable Automatic Game Detection mode on the G PRO gaming mouse with Logitech Gaming Software for details.

- **+Customize G PRO gaming mouse pointer settings with Logitech Gaming Software**

You can use Logitech Gaming Software (LGS) 8.87 (or later) to customize button configuration on the G PRO gaming mouse in two different modes:

- Automatic Game Detection
- On-Board Memory

NOTE: For help with choosing between these two modes, see Choose between G PRO gaming mouse on-board memory and automatic game detection modes.

Automatic Game Detection

1. Open LGS.
2. In the **Home** window, make sure the blue toggle marker is set to **Automatic Game Detection**, and then click the glowing pointer-gear icon.



The Pointer Settings window appears:



Your gaming mouse supports the following pointer customizations in Automatic Game Detection mode:

- **DPI levels** — Configure up to five levels, from 200-12000 in 50 DPI increments.
- **Report rate** — Update from 125/sec (8ms response time) to 1000/sec (1ms response time).
- **Per profile pointer settings** — Enable different pointer behavior for each game profile.
- **Acceleration** — Enhance pointer precision – the mouse pointer increases speed when you move it. For some games, this can be turned off to improve accuracy.

To configure your pointer settings:

1. Under **DPI Sensitivity Levels**, drag the tick mark along the graph. For each DPI level you set, you'll see a tick mark. You can set up to five.
   NOTE: If you prefer, you can edit the list of DPI values to the left of the graph from 200-12000. For each DPI level you set, you'll see a tick mark rounded to the nearest 50. For example: If you type in "682", the software will round to 700 DPI.
   - **Assign Default** — (Required) One DPI level must always be the default. To change the default, click a DPI level that doesn't have a blue diamond above it, and then click **Assign Default**. This is the DPI level the mouse will return to when you:
     - Press the default DPI button
     - Switch between profiles

        - Power up the computer
        - Wake the computer from sleep mode
    - **Assign Shift** — (Optional) You can quickly activate a DPI level when you press the DPI Shift button. For example, you can set Assign Shift to a low DPI value, which will temporarily give you extreme precision. When you release the button, the mouse will revert back to the current DPI level. To set the Shift DPI, select a DPI level that isn't highlighted in orange, and then click **Assign Shift**.
      TIP: Buttons you assign as DPI Up, DPI Down and DPI Cycle will enable you to change between DPI levels rapidly.
2. Change the **Report Rate**, if you prefer something other than the default of 1000 reports/second (1ms response time). The Report Rate controls how often your mouse updates its position to the computer.
   NOTE: The possible range is from 125/sec (8ms response time) to 1000/sec (1ms response time). You can:
    - Decrease processor use by reducing the report rate.
    - Increase the mouse response by raising the report rate.
      TIP: For most PCs, a report rate of 500 is recommended.
3. Make your preferred selections under **Advanced**. The options are:
    - **Enable per profile pointer settings** — Select this option to enable each profile to have different pointer behavior (see Setting different DPIs for gaming-mouse profiles using Logitech Gaming Software for help).
      TIP: We recommend leaving this unchecked for the initial setup.
    - **Acceleration (Enhance Pointer Precision)** — Select this option to use Window's "Enhance Pointer Precision" acceleration.
      TIP: For gaming accuracy, we recommend leaving this unchecked, but you can enable it if you prefer the feel of default Windows acceleration.

On-Board Memory mode
Your gaming mouse supports these pointer customizations in On-Board Memory mode:

- DPI levels — Configure up to five levels, from 200-12000 in 50 DPI increments.
- Report rate — Update from 125/sec (8ms response time) to 1000/sec (1ms response time).

In On-Board Memory mode, all of the customizations you make will be written directly to the mouse’s memory.

To configure DPI levels:

1. Open LGS.
2. In the G PRO gaming mouse **Home** window, make sure the blue toggle marker is set to **On-Board Memory**, then click the glowing pointer-gear icon.



The Pointer Settings windows appears:



3. Under DPI Sensitivity Levels, drag the tick mark along the graph. For each DPI level you set, you'll see a tick mark. You can set up to five levels.

- **Assign Default** — (Required) One DPI level must always be the default. To change the default, click a DPI level that doesn't have a blue diamond above it, and then click **Assign Default**. This is the DPI level the mouse will return to when you:
  - Press the default DPI button
  - Switch between profiles
  - Power up the computer
  - Wake the computer from sleep mode
- **Assign Shift** — (Optional) You can quickly activate a DPI level when you press the DPI Shift button. For example, you can set Assign Shift to a low DPI value, which will temporarily give you extreme precision. When you release the button, the mouse will revert back to the current DPI level. To set the Shift DPI, select a DPI level that isn't highlighted in orange, and then click **Assign Shift**.
  TIP: Buttons you assign as DPI Up, DPI Down and DPI Cycle will enable you to change between DPI levels rapidly.

4. Change the **Report Rate**, if you prefer something other than the default of 1000 reports/second (1ms response time). The Report Rate controls how often your mouse updates its position to the computer. You can:
   - Decrease processor use by reducing the report rate.
   - Increase the mouse response rate by raising the report rate.
     TIP: For most PCs, a report rate of 500 is recommended.
5. To customize the functions for your mouse buttons, right-click on the button you want to personalize and then select:
   - Assign New Command
   - Edit Command
   - Use Generic
   - Unassign

   Your changes are automatically saved.
   NOTE: For help customizing mouse functions for your gaming mouse buttons, see Programming gaming-mouse buttons using Logitech Gaming Software.

- +**Logitech device stops responding in Windows**

If you notice that your Logitech device stops responding (ex: the mouse or headset disconnects) after fixed intervals of time, then the problem may be related to the power management settings. Perform all of the steps in the two sections below to resolve the issue:

- Change Universal Serial Bus controllers settings
- Disable USB selective suspend

Change Universal Serial Bus controllers settings

1. Click the Windows Start flag and type `device manager` in the search box. In the **Programs** list, click **Device Manager**. If you are prompted for an administrator password or confirmation, type your password or click **Continue**.
2. Click the arrow next to **Universal Serial Bus** controllers to expand the list, then right-click **USB Root Hub**, and click **Properties**.
3. In the **USB Root Hub Properties** window, click the **Power Management** tab. Uncheck **Allow the computer to turn off this device to save power** to disable the setting.

NOTE: Windows will reverse this setting when the device is unplugged from the USB port or the PC is restarted. To keep this from happening, follow the steps below so Windows will remember the power management setting.

Disable USB Selective Suspend

1. Click **Start** and in the search box, type `power options`. In the **Programs** list, click **Power Options**.
2. If you are prompted for an administrator password or confirmation, type your password or click **Continue**.
3. Click **Change plan settings** for the power plan you use.
4. Click **Change advanced power settings**. The **Power Options** window appears.
5. In the **Power Options** window, expand **USB settings**, and then expand **USB selective suspend setting**.



6. (For laptop users only) To prevent Windows from turning off the USB root hub when the computer is running 'On battery' power, select **Disabled** in the **On battery** list.
7. To prevent Windows from turning off the USB root hub when the computer is 'Plugged in' to a power outlet, select **Disabled** in the **Plugged in** list and then click **OK**.

For more information, please refer to the Microsoft knowledge base:
http://support.microsoft.com/kb/930312

- **+Logitech Gaming Software for Windows Release Notes**

- Version 8.98.234
- Version 8.96.88
- Version 8.94.108
- Version 8.92.67
- Version 8.91.48
- Version 8.90.117
- Version 8.89.68

Version 8.98.234

- **Post Date:** 18-APR-2018
- **OS:** Windows 8, Windows 7, Windows 10
- **Why Update?**

    - Added support for:
        - G560 LIGHTSYNC PC Gaming Speaker
        - G513 Silver RGB Mechanical Gaming Keyboard
        - G513 Carbon RGB Mechanical Gaming Keyboard
        - G512 Carbon RGB Mechanical Gaming Keyboard
    - Improved the UI for C920 & C922 cameras to be more consistent with other supported cameras
    - New game profiles:
        - Assassin's Creed Origins
        - Call of Duty: WWII
        - Destiny 2
        - Fortnite
        - Kingdom Come: Deliverance
        - Metal Gear Survive
        - Middle-earth: Shadow of War
        - Project Cars 2
        - South Park The Fractured But Whole
        - Star Wars: Battlefront II
        - The Evil Within 2
        - Wolfenstein II: The New Colossus
    - Minor bug fixes.

Version 8.96.88

- **Post Date:** 21-AUG-2017
- **OS:** Windows 8, Windows 7, Windows 10
- **Why Update?**
    - Support added for:
        - G603 Wireless Gaming Mouse
        - G613 Wireless Mechanical Gaming Keyboard
        - Brio 4K Streaming Edition Webcam
    - Added a firmware update for the G102 and G203 to increase the max sensor DPI to 8000
    - Added option to gather anonymous data to help us understand how LGS is used so we can improve it in future releases
    - New game profiles for:
        - Agents of Mayhem
        - Gigantic
        - LawBreakers
    - Minor bug fixes

Version 8.94.108

- **Post Date:** 19-JUN-2017
- **OS:** Windows 8, Windows 7, Windows 10
- **Why Update?**
    - Added support for
        - G433 Gaming Headset
        - POWERPLAY Wireless Charging System
        - G903 LIGHTSPEED Wireless Gaming Mouse
        - G703 LIGHTSPEED Wireless Gaming Mouse
    - New game profiles:
        - Prey (2017)
        - PLAYERUNKNOWN'S BATTLEGROUNDS
    - Added a firmware update for the G403 and G900 to optimize clock tuning parameter
    - Fixed an issue with localized layouts not being correctly displayed for the G413
    - Fixed an issue where a user's custom lighting would be reverted to the HW default when locking their system
    - Minor bug fixes

Version 8.92.67

- **Post Date:** 19-APR-2017
- **OS:** Windows 8, Windows 7, Windows 10
- **Why Update?**
    - Added support for the G413 Mechanical Gaming Keyboard
    - New game profiles:
        - For Honor
        - Ghost Recon Wildlands
        - Mass Effect: Andromeda
        - Resident Evil 7
    - Minor bug fixes

Version 8.91.48

- **Post Date:** 4-JAN-2017
- **OS:** Windows 8, Windows 7, Windows 10

- **Why Update?**
    - Added support for the G90 gaming mouse
    - Added a link to Overwolf in the LGS user interface
    - Minor bug fixes.
    - Added support for the Pro mechanical gaming keyboard

Version 8.90.117

- **Post Date:** 4-JAN-2017
- **OS:** Windows 8, Windows 7, Windows 10
- **Why Update?**
    - Support added for G533 Gaming Headset
    - Minor bug fixes

Version 8.89.68

- **Post Date:** 15-DEC-2016
- **OS:** Windows 8, Windows 7, Windows 10
- **Why Update?**
    - Custom Lighting Effects Editor added to the Lighting View for per-key RGB keyboards.
    - Fix to address stuck mic mute issue on G933 headset.
    - New game profiles:
        - Battlefield 1
        - Call of Duty: Infinite Warfare
        - Mafia III
        - Watch Dogs 2
        - Elder Scrolls V: Skyrim Special Edition
        - Sid Meier's: Civilization VI
        - Titanfall 2
        - Dishonored 2
        - Tyranny
    - Optional G610 Orion keyboard firmware update to address a high-pitched whine on some keyboards.
    - Firmware updates for the following keyboards to enhance lighting performance with the new Lighting Effects Editor:
        - G410 Altas Spectrum
        - G810 Orion Spectrum
        - G910 Orion Spectrum
        - G910 Orion Spark

- Added an option to the G933 FW update tool allowing the user to choose between G933 and G933 Snow, so that the proper device image will show in LGS after a firmware update.
- Minor bug fixes.

- **+Create macros for gaming mice and keyboards with Logitech Gaming Software**

You can use Logitech Gaming Software (LGS) to create macros that automate a series of mouse button events and/or keystrokes with a single mouse button click or keypress of a G or function key.

- Getting started with a keyboard or gaming mouse in Automatic Game Detection mode
- Getting started with a gaming mouse in On-Board Memory mode
- Add mouse events to a macro
- Add keystrokes to a macro
- Add delays to a macro
- Select a Repeat Option for the macro
- Mouse events example
- Mouse events and keystrokes with delay example

Getting started with a keyboard or gaming mouse in Automatic Game Detection mode

1. Make sure your gaming mouse or keyboard is connected using the supplied USB cable. If you have a wireless gaming mouse, make sure your device is charged and the USB receiver is securely connected to a USB port.
2. Launch Logitech Gaming Software (LGS).
3. Select your gaming device and navigate to the **Home** tab.
4. If applicable, make sure the mouse or keyboard is set to **Automatic Game Detection**.
5. Click on the **Customize buttons**, **Customize G-keys** or **Customize Function Keys** icon at the bottom of the screen.





6. In the **Profiles** box, select a profile that you want to create macros for.

7. Double-click or right-click on a button and select **Assign New Command** or **Edit Command** to open the Command Editor. You can also open the Command Editor by clicking on the "+" sign in the Commands panel.



NOTE: Left and right mouse buttons can only be customized after their respective functions are assigned to other keys on the mouse.

8. In the left pane of the Command Editor window, select the **Multi Key** tab.
9. In the **Name** box, give your macro a unique name that will help you to identify it.

Getting started with a gaming mouse in On-Board Memory mode

1. Make sure your gaming mouse is connected using the supplied USB cable. If you have a wireless gaming mouse, make sure your device is charged and the USB receiver is securely connected to a USB port.
2. Launch Logitech Gaming Software (LGS).
3. Select your gaming mouse and navigate to the **Home** tab.
4. Make sure the mouse is set to **On-Board Memory**.
5. Click on the **Customize on-board profile** icon at the bottom of the screen.



6. Double-click or right-click on a button and select **Assign New Command** or **Edit Command** to open the Command Editor.
   NOTE: Left and right mouse buttons can only be customized after their respective functions are assigned to other keys on the mouse.
7. Select the **Multikey Macro** tab from the left-hand pane of the Command Editor window.

Add mouse events to a macro

1. Right-click anywhere in the **Keystrokes** section of the Command Editor and hover over **Insert mouse Event**. The following options are displayed:
   - Left Button
   - Middle Button
   - Right Button
   - Wheel
   - Extra Button
2. For each mouse button, you can insert Down, Up, or Click events. If you choose the **Click** event, LGS automatically adds sequential Down and Up events.
   NOTE: Although you can add separate button up and down events, it is recommended to add them both one after the other. Otherwise, the macro will execute as if the button is held down.
3. To delete events, right-click on the respective event in the **Keystrokes** section and select **Delete**. You can select multiple events by dragging the mouse while holding the left click button.
4. Once your macro is complete, click **OK**. Keyboard macros must contain at least one key press. The OK button remains grayed out until your macro meets this requirement.
   NOTE: If you opened the Command Editor from the Commands pane on a keyboard or mouse in **Automatic Game Detection** mode, you'll need to drag the macro from the **Commands** list onto a mouse button or keyboard key in the **Customize buttons** window. The macro's name will be visible above the mouse button or keyboard key.

See also Mouse events example.

Add keystrokes to a macro:

1. In the **Multi Key** or **Multikey Macro** tabs in the Command Editor, click **Start Recording** to begin entering keystrokes.
   NOTE: Select **Record delays** between events to automatically add delays between the keystrokes you input. For example, if you press the **A** key and wait 4 seconds before

pressing the **B** key, LGS automatically includes those delays in the macro. This feature is not available on a mouse in **On-Board Memory** mode.



2. Press the keys or type on the keyboard as you would in-game.
   NOTE: LGS only registers the keys that are pressed, not the symbols that result from the keystrokes. If you want to insert the "**!**" symbol in your macro, LGS displays shift down, up and button 1 up and down events.
   TIP: Read the other sections of this article to understand how to manually add delays and mouse events to the macros you create with LGS.
3. Once you are finished adding the desired keystrokes, click **Stop Recording**.
4. You can add keystrokes to a macro even after you stop recording. Right-click any event in the **Keystrokes** section and select **Record Before Here** or **Record After Here**. Depending on which option you choose, the new keystrokes will be added either before or after the event you selected. Once you are finished adding the additional keystrokes, click **Stop Recording**.
5. Click **OK** to save the macro. Keyboard macros must contain at least one key press. The OK button remains grayed out until your macro meets this requirement.
   NOTE: If you opened the Command Editor from the **Commands** pane on a keyboard or mouse in **Automatic Game Detection** mode, you'll need to drag the macro from the Commands list onto a mouse button or keyboard key in the **Customize buttons** window. The macro's name will be visible above the mouse button or keyboard key.

Add delays to a macro

Inserting delays within macro events allows you to accommodate for latency and the time required to complete in-game actions. For example, if a certain in-game action requires 2 seconds to complete, you have to add a delay so the macro waits 2 seconds before executing the rest of the sequence. You can automatically add delays between your keystrokes by selecting the **Record delays between events** checkbox below the **Keystrokes** section. However, you have to manually add delays between mouse events. The same steps apply to manually adding delays between keystrokes:

1. Right-click the event in the **Keystrokes** section of the **Command Editor** before which you want to add a delay.
2. Select **Insert Delay** from the pop-up menu.



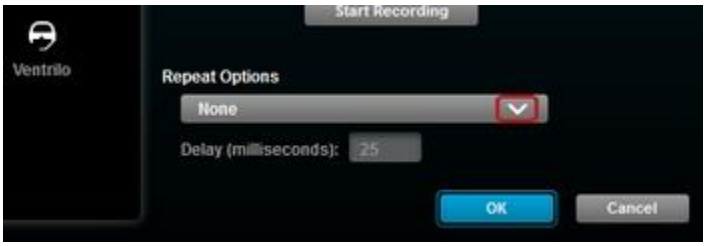
3. LGS inserts a 0.5-second delay by default. To customize the length of the delay, double-click on the entry in the **Keystrokes** section or right-click the delay event and select **Edit**.
4. Type a value in milliseconds and then press **Enter** to save.



See also Mouse events and keystrokes with delay example.

Select a Repeat Option for the macro
You can use the Command Editor to select a repeat option for your macro. By default, LGS sets the Repeat Options to **None**. You can choose from three repeat options: **None**, **While Pressed**, and **Toggle**.
NOTE: Repeat option functionality is unavailable while the mouse is in **On-Board Memory** mode.

1. Open the **Command Editor** window for the macro you want to repeat.
2. In the **Repeat Options** box, click the down arrow on the right.



3. Select one of the following options from the drop-down menu:
    - **None:** The macro only executes the keystrokes once.
    - **While Pressed:** Select this option to repeat the macro while the assigned button is pressed down.
    - **Toggle:** Clicking the button activates the macro and it repeats until the button is clicked again.

    NOTE: The delay between the macro repetitions is set to 25 milliseconds by default. You can customize the length of the delay by setting a value in the **Delay (milliseconds)** box.

4. Click **OK** to save your changes.

Mouse events example
In this example, we will create a double-click macro to better understand how mouse events work.

1. Follow the Getting Started steps above.
2. Right-click in the **Keystrokes** section, hover over the **Insert Mouse Event** text, then hover over the Left Button option in the pop-up menu and select **Click** from the second pop-up menu.
3. Repeat Step 2 to insert a second Left Button click event.
4. Click **OK** to save the macro.



Mouse events and keystrokes with delay example
In this example, we will set up a macro to open the Device Manager to get acquainted with keystrokes and delays.

1. Follow the steps in the Getting Started section above.
2. Click **Start Recording**, press and hold the **Windows** key, press the **E** key, and release the **Windows** key. You should see the following commands in the Keystrokes section:



NOTE: You might see Right Windows instead of Left Windows depending on the Windows key you used.

3. Right-click the **Keystrokes** section, hover over **Insert Mouse Event**, and then over **Right Button**. Select **Click** from the pop-up menu.
4. We need to add a delay between the keystrokes and the right button click events so there is enough time to position the pointer on the Computer button in the Navigation pane. Right-click the **Right Button Down** event and select **Insert Delay**. Next, double-click the delay event, type 4000 (4s) and press Enter.



5. Repeat Step 3 but insert a **Left Button** click event instead.
6. Add a delay between the **Right Button Up** and **Left Button Down** events so there is enough time to position the cursor over the **Manage** option in the pop-up menu. Right-click the **Left Button Down** event and select **Insert Delay**. Next, double-click the delay event, type 4000 (4s) and press Enter.



7. Click **OK** to save your macro.