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Configuring Windows 7 for Sierra Wave

This document will describe how to setup Windows 7 for optimal performance of the Sierra Wave program, please configure Window 7 as outlined in the following instructions.

P/N:

Cadwell recommends Windows 7 Professional or Windows 7 Ultimate.

1. Turn off the UAC (User Account Control) before installing Sierra Wave:

- Click the Start Orb
- Click on the Control Panel.
- Change the "View by:" to "Large Icons" or "Small Icons". Do not use "Category View".



- Then click on User Accounts. •
- In that dialogue box click on "Change User Account Control Settings". Answer "Yes" if a prompt is displayed.





• Move the slider to the "Never Notify" position. Click OK.



• **Restart** the computer.



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2. Configure the Network Card:



- Click on the **Control Panel**.
- Change the "**View by**:" to "**Large Icons**" or "Small Icons". *Do not use "Category View"*.
- Click on "Network and Sharing Center".



• Then click on "Change Adapter Settings" on the left hand task pane. This will show all the network connections available on the computer.





• **Right-click** on the LAN or High-Speed Internet connection that will be used to communicate to the base unit and select "**Properties**."

🗿 🔵 🗢 👰 🕨 Control Panel 🕨	Network and Internet Network	rk Connections 🕨		✓ 4 Search Network Conr	nections
ile Edit View Tools Advand	ced Help				
Organize 🔻					M · ·
Name	Status	Device Name	Connectivity	Network Category	Owner
Local Area Connection	Network	Intel(R) 82567LM-3 Gigabit Network	Internet access	Private network	System
Cadwell Base Unit	Unidentified network	SMC EZ Card 10/100 (SMC 1244TX-1)	No Internet access	Public network	System

• Uncheck all the protocols in the list except for the **Internet Protocol Version 4** (**TCP/IPv4**).

Cadwell Base Unit Properties
Networking Sharing
Connect using:
Realtek RTL8139/810x Family Fast Ethemet NIC
Configure
This connection uses the following items:
Install Properties Description Allows your computer to access resources on a Microsoft network.
OK Cancel

• Then double-click on that protocol and change the radial button from "Obtain an IP address automatically" to "**Use the following address**."



Internet Protocol Version 4 (TCP/IPv4)	Properties ? X
General	
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
Use the following IP address:	
IP address:	192 . 168 . 113 . 66
Subnet mask:	255.255.255.0
Default gateway:	· · ·
Obtain DNS server address autor	natically
• Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	
	Ad <u>v</u> anced
	OK Cancel

- Input the default Cadwell® IP address. It is **192.168.113.66**. The default Subnet Mask can be used of **255.255.255.0**.
- Once those addresses are added click on the **Advanced** button in the bottom right-hand corner of the screen. Click on the **WINS** tab and uncheck the "**Enable LMHOSTS lookup**" check box and change the NetBIOS setting from Default to "**Disable NetBIOS over TCP/IP**".

Advanced TCP/IP Settings	? ×
IP Settings DNS WINS	
<u>W</u> INS addresses, in order of use:	
	t
Add Edit	Remove
If LMHOSTS lookup is enabled, it applies to all TCP/IP is enabled.	connections for which
Enable LMHOSTS lookup	Import LMHOSTS
NetBIOS setting Default: Use NetBIOS setting from the DHCP s is used or the DHCP server does not p enable NetBIOS over TCP/IP. Enable NetBIOS over TCP/IP. Couple NetBIOS over TCP/IP.	erver. If static IP address provide NetBIOS setting,
Ugable vetbilds over 107/12	OK Cascal
	Cancer

• Click **OK** three times to get back to the network connections page.



- Once again, **right-click** on the LAN or High-Speed Internet connection that will be used to communicate to the base unit and click on "**Properties**.
- Click on the **Configure** button in the upper left corner.

Networking	Sharing			
Connect us	ing:			
🔮 Real	tek PCIe GBE	Family Controll	ler	
			C	

• Click on the **Advanced** Tab then select the "**Speed and Duplex**" listing. *It might also be displayed as "Media Type, Connection Type or Link Speed & Duplex". Some Windows 7 systems will have a Link Speed tab.*

eneral Advanced About Driv	r Details Power Management
The following properties are availab he property you want to change or on the right.	e for this network adapter. Click the left, and then select its value
Property:	Value:
Auto Disable Gigabit (PowerSavin; Flow Control Green Ethernet Interrupt Moderation IPv4 Checksum Offload Jumbo Frame Large Send Offload v2 (IPv4) Large Send Offload v2 (IPv6) Network Address Prioritv& VLAN	10 Mbps Full Duplex

- Click the drop down list on the value right and select **10 Mbps Full Duplex**.
- Click on the **Power Management** tab. **Deselect the "Allow the computer to turn off this device to save power**" check box and then click **OK**. *Note not all network cards will have a power management tab.*





- **Right-click** on the LAN or High-Speed Internet connection that will be used to communicate to the base unit and click on "**Rename**."Type in **Wave Base** and press **Enter**.
- 3. Add the Run Command and Printers to the start menu:
 - Right-click the **Start Orb** and click "**Properties**." In the start menu tab click the "**Customize**" button.

askuai	Start Menu	Toolbars
To cust behave	omize how link in the Start m	ks, icons, and menus look and Customize.
Power t	outton action:	Shut down 🔻
Privad	cy .	
V St	ore and displa	ay recently opened programs in the Start menu
⊽ St ta	ore and displa skbar	ay recently opened items in the Start menu and the

• Check the "Run Command" and "Devices and Printers" boxes and click OK twice.



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4. Fix the New Program Window so that the QuickReport program will automatically come to the front when launched. This is per the Microsoft Knowledge Base article #886217:

To resolve this issue, modify the value of the ForegroundLockTimeout registry entry in Registry Editor. To do this, follow these steps:

- 1 Click the **Start Orb**, click **Run**, type **regedit** in the **Open** box, and then click **OK**.
- 2 In Registry Editor, locate and then click the following registry subkey:

HKEY_CURRENT_USER\Control Panel\Desktop

- 3 In the right pane, locate and then double-click **ForegroundLockTimeout**.
- 4 Under **Base**, click **Decimal**, type **0** in the **Value data** box, and then click **OK**.

Note The default decimal value for the ForegroundLockTimeout registry entry is set as **200000**.

- 5 Quit Registry Editor.
- 6 **Restart** your computer.

*This must be done for each User Account on the system.



5. Add the "Computer" and "Network" icons to the desktop:

- Right-click on the desktop and click **Personalize.**
- Click on "Change Desktop Icons" under Tasks.

	Appearance and Personalization	Personalization		• • 7	Search Control Pariet	
Control Panel Home	Change the visuals and Click a theme to change the de	sounds on your co sktop background, wind	mputer low color, sounds, and s	reen saver all at once.		
Change your account picture	Unsaved Theme					
	Aero Themes (7)			Sav	e theme Get more themes online	
	Windows 7	Architecture	Characters	Landscapes	Nature	
	Basic and High Contrast The	mes (6)				-
See also Display Taskbar and Start Menu	Deskton Background	Window	Color	Sounds	Screen Saver	
Ease of Access Center	img0	Cust	om	Windows Default	None	

- Check the boxes for the **Computer** and **Network** from the available icons.
- Click **Apply** than Click **OK**.





6. Disable password protection on Screen Saver:

• Right-Click anywhere on the desktop and click "**Personalize.**" Click on the **Screen Saver** link in the lower right corner.

creen Saver	
Screen saver	
Bubbles	▼ Se <u>t</u> tings Pre <u>v</u> iew
<u>W</u> ait: 25	minutes On resume, display logon screen
Power manager	nent Iy or maximize performance by adjusting display
Conserve energ brightness and <u>Change power</u> :	other power settings. settings

• Then uncheck the "On resume, display the login screen" and click OK.



- 7. Disable the animation controls and elements within windows:
 - Right-click on the **Computer icon** and click **Properties**, then click on the "**Advanced System Settings**" link.



• Click on the Advanced tab, then the Settings button in the Performance section.





• This will bring up the dialog box that will turn off the animations of buttons. Uncheck the top check box named "Animate controls and elements inside windows."

Performance Options
Visual Effects Advanced Data Execution Prevention
Select the settings you want to use for the appearance and performance of Windows on this computer.
○ Let Windows choose what's best for my computer
Adjust for <u>b</u> est appearance
Adjust for best performance
O Custom:
 Animate controls and elements inside windows Animate windows when minimizing and maximizing Enable desktop composition Enable transparent glass Fade or slide menus into view Fade or slide ToolTips into view Fade out menu items after dicking Show preview and filters in folder Show shadows under menus Show shadows under mouse pointer Show thumbnails instead of icons
OK Cancel Apply

• Once that is done click **Apply** and **OK** out of everything.



8. Enable the Menu Bar in the Explorer window:

- Double-click "Computer" then click "Organize" then hover over "Layout" then click on "Menu Bar."
- The File, Edit, View, Tools and Help dropdowns should now be visible.





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9. Configure the Power Settings for a Laptop or Desktop:

- Click the Start Orb
- Click on the **Control Panel**.
- Change the "**View by**:" to "**Large Icons**" or "Small Icons". *Do not use "Category View"*.
- In the control panel list click on "Power Options".
- Select the **High Performance** option. If you don't see this option, click on Show Additional Plans.



- Click on the "Change Plan Settings" link under High Performance.
- Click the dropdown list for both "**Turn off the Display**" and "Put **the Computer to Sleep**" and set them to **NEVER**.



🚱 🖉 🗣 🔖 Control Panel 🔸 Power Options 🔸 Edit Plan Settings 👘 👻 🍫 Search 🔎
<u>File Edit View Iools H</u> elp
Change settings for the plan: High performance Choose the sleep and display settings that you want your computer to use.
Image: Turn off the display:
Put the computer to sleep:
Change advanced power settings
Restore default settings for this plan
Save changes Cancel

• Next click the "Change Advanced Power Settings" link and set the "Link State Power Management" setting to OFF. That only needs to be done under the PCI Express setting. Then click OK out of everything to set all the power settings.

Power Options
Advanced settings
Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.
High performance [Active]
 Wireless Adapter Settings Sleep USB settings Power buttons and lid PCI Express Link State Power Management Setting: Off Processor power management Search and Indexing Display Windows DreamScene settings
<u>R</u> estore plan defaults
OK Cancel Apply



10. Show File Extensions

Click the **Start Orb**

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- Click on the **Control Panel**.
- Change the "**View by**:" to "**Large Icons**" or "Small Icons". *Do not use "Category View"*.
- Click on "Folder Options"
- Click on the **View** tab.
- Uncheck the box "Hide extensions for known file types".
- Click Apply than **OK**.

11. Configure the Taskbar Properties:

- **Right click** on the **Taskbar** at the bottom of the screen and select **Properties**.
- For the **Taskbar Buttons**, change the setting to "Combine when taskbar is full" or "Never Combine".
- Click **Apply**, and then click **OK**.

