

Introduction

HP Display LiteSaver is a software application that controls the monitor power in order to [increase monitor life and save energy](#). It will automatically run each time Windows is started and runs as an icon in the Windows System Tray.



HP Display LiteSaver can provide [additional benefits over using the standard Windows Screen Saver](#).

It can be configured using a variety of methods:

- ε [User Interface](#)
- ε [Command line](#)
- ε [WMI](#)

HP Display LiteSaver also provides an easy way to instantly [activate the default Windows Screen Saver or turn the monitor off immediately](#).



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What is the HP Display LiteSaver?

HP Display LiteSaver is a software application that can increase monitor life and save energy. Display LiteSaver allows users to place their monitor into its low power Sleep mode at pre-defined times. With most monitors, Sleep mode is defined as turning off the display and shutting down or reducing power to most internal circuits. The result is protection against image retention which can extend the life of the display, and very low power consumption which will reduce energy costs.

Image retention occurs when the monitor is left ON while displaying the same image for an extended period of time, leaving a "shadow" of this image on the screen. Image retention for flat panels can be corrected (in most cases) if certain time consuming procedures are followed, but for CRTs the actual color phosphor on the inside of the CRT can be permanently damaged (phosphor burn).

Other problems not known to all users; For LCD monitors, the fluorescent lights inside the display have a limited lifetime and will gradually degrade. For all CRT monitors, focus clarity and contrast/brightness degrades with time and usage. The more the display is active, the sooner CRT life will degrade.

Using the Display LiteSaver utility can help prevent the above problems from occurring.



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How is HP's Display LiteSaver different from a screen saver?

Energy saving options and screen savers are activated when the keyboard and mouse have been idle for a certain period of time. Microsoft Windows allows you to specify how much time must pass before the energy saving options are activated. However, if you are viewing information on the screen but not using the keyboard or mouse, the energy saving feature or screen saver may activate and turn off the screen. Some tasks require continuous on-screen viewing without using the keyboard or mouse, so using energy saving features or screen savers may be inappropriate to use.

The HP LiteSaver program activates the monitor's low power Sleep mode only at times the user has specified. For example, if a user routinely leaves the office at 6:00 P.M. daily, the display can be set to turn off at exactly that time. If a user routinely begins working at 7:00 A.M., the display can be set to automatically turn on at that time. The user has total control over when the monitor screen turns on and off.



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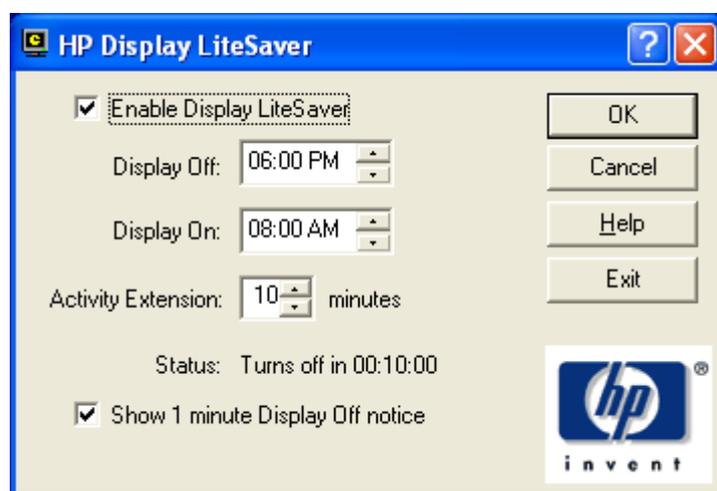
How to configure the HP Display LiteSaver

HP Display LiteSaver can be configured via: User Interface, [command line](#) and [WMI](#).

To configure via the User Interface, double click the HP Display LiteSaver icon in the Windows System Tray, or right-click the icon and select "Configure..." from the popup menu.



The following options can be configured directly:



Enable Display LiteSaver: Select to Enable the HP Display LiteSaver functionality. Deselect to disable HP Display LiteSaver.

Display Off: The time when the monitor will be automatically turned off. This does not affect Screen Saver operation which has priority over HP Display LiteSaver.

Display On: The time when the monitor will be automatically turned on. This does not affect Screen Saver operation which has priority over HP Display LiteSaver.

Activity Extension: The time in minutes before the monitor will be turned off if there is any keyboard or mouse activity, after the Display Off time has been reached. If the keyboard or mouse are used, then HP Display LiteSaver will wait this amount of time before turning the display off again. Set to 0 to disable. If disabled, the monitor will be turned off as soon as the Display Off time is reached, regardless of any keyboard or mouse activity.

Show 1 minute Display Off notice: Select to display a popup message in the SystemTray 1 minute before the monitor will be turned off by HP Display LiteSaver.

Status: Shows the time until the monitor is next due to be turned off by HP Display LiteSaver.

OK: Stores the current settings and minimizes HP Display LiteSaver to the SystemTray.

Cancel: Restores the previous settings and minimizes HP Display LiteSaver to the SystemTray. HP Display LiteSaver will continue to run.

Help: Opens this online help.



: Click this button then click on any of the above controls to display additional information.

Exit: Exits and closes HP Display LiteSaver. LiteSaver will no longer control the monitor power until it is next restarted.



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Command Line Switches

HP Display LiteSaver can be configured from the command line by specifying arguments. This can be used even if Display LiteSaver is already running.

`hplitesaver.exe /option`

Where `/option` can be one or more of the following:

<code>/OFF=xx:xx</code>	Sets the Display Off time. Time is specified in 24 hour format. Example: <code>/OFF=23:00</code> is 11 PM.
<code>/ON=xx:xx</code>	Sets the Display On time. Time is specified in 24 hour format. Example: <code>/ON=08:00</code> is 8 AM.
<code>/DELAY=xx</code>	Sets the Activity Extension time in minutes.
<code>/TRAY</code>	Runs as an icon in the system tray. The default is to open the configuration dialog.
<code>/ENABLE</code>	Enables HP Display LiteSaver
<code>/DISABLE</code>	Disables HP Display LiteSaver
<code>/NOTICE=OFF</code>	Disables the notification message 1 minute before the monitor is turned off.
<code>/NOTICE=ON</code>	Enables the notification message 1 minute before the monitor is turned off.
<code>/LOCK</code>	Locks (disables) the User Interface controls to prevent users from changing settings.
<code>/UNLOCK</code>	Unlocks (enables) the User Interface so changes can be made to settings.
<code>/STARTUP=OFF</code>	HP Display LiteSaver won't automatically load when Windows restarts
<code>/STARTUP=ON</code>	HP Display LiteSaver will automatically load when Windows restarts

Example:

```
hplitesaver /off=16:00 /on=08:00 /tray
```

Setup Switches:

Options can be set during the installation of HP Display LiteSaver by using command line arguments with the setup program as follows:

```
Setup.exe /z"<options>"
```

where `<options>` are any of the above command line switches. Note the " " are required.

Example:

```
setup.exe /z"/off=16:00 /on=08:00 /tray"
```



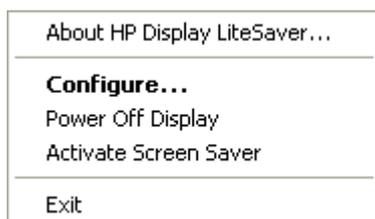
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HP Display LiteSaver Popup Menu

The popup menu provides access to configuring the HP Display LiteSaver settings, and also activating the default Windows Screen Saver and turning the monitor off immediately.

Right-click the icon HP Display LiteSaver in the Windows System Tray to display the popup menu.



About HP Display LiteSaver...: Displays the software version and copyright information.

Configure...: Opens the [configuration window](#).

Power Off Display: Instantly activates the default Windows Screen Saver.

Activate Screen Saver: Immediately turns the monitor power off.

Exit: Exits and closes HP Display LiteSaver. It will no longer control the monitor power until it is next run.



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Configuring via WMI

HP Display LiteSaver can be configured using WMI (Windows Management Instrumentation) which provides the possibility for remote configuration over a network using any WMI capable remote management software.

HP Display LiteSaver installs a WMI Provider which creates a WMI object called "Win32_MonitorPowerSaving" in the "root\CIMV2" namespace.

The WMI object has the following properties and methods:

Properties

Name	Type	Function
Enabled	boolean	Enable status of the HP Display LiteSaver application
ActivityExtension	uint8	Activity Extension time in minutes.
ShowDisplayOffNotice	boolean	Enables status of notification message 1 minute before the monitor is turned off.
CurrentlyRunning	boolean	True if the HP Display LiteSaver application is currently running (read only)
OffTimeHours	uint8	Display Off time hours in 24 hour format.
OffTimeMinutes	uint8	Display On time minutes.
OnTimeHours	uint8	Display On time hours in 24 hour format.
OnTimeMinutes	uint8	Display On time minutes.
Locked	boolean	True if the User Interface is currently locked to prevent users from changing settings.
Version	string	Version number of HP Display LiteSaver WMI Provider DLL (read only)
LoadAtStartup	boolean	HP Display LiteSaver will automatically load when Windows is restarted if True

Note: All properties are both read and write unless noted otherwise.

Methods

Method	Purpose
PowerOffNow	Turns the monitor power off immediately, regardless of the current settings.
PowerOnNow	Turns the monitor power on immediately, regardless of the current settings. However the Windows Screen Saver will have priority over this function. So if the monitor has been turned off by the Windows Screen Saver, then activating PowerOnNow will not turn on the monitor.
ScreenSaverNow	Activates the built in Windows Screen Saver



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About HP Display LiteSaver

Version 4.00 Rev. A /2004

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Troubleshooting

Problem: HP Display LiteSaver doesn't turn off monitor screen

1. The default [Activity Extension](#) value is set to 10 minutes. This means that HP LiteSaver will wait to detect no input or movement from the keyboard or mouse for 10 consecutive minutes after the [Display Off](#) time has passed, before the monitor enters into low-power mode.

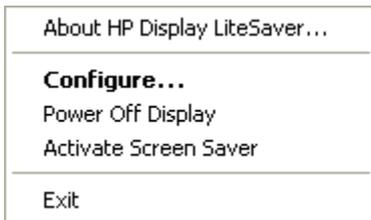
For example if the [Display Off](#) time is set to 5 minutes ahead of the current time, and the Activity Extension is set to 10 minutes, HP LiteSaver will not actually turn off the display until 10 minutes of inactivity have elapsed, even though the Off Time is 5 minutes away.

2. Confirm that HP LiteSaver is compatible with your computer system. Some notebook computers are not compatible and the monitor power can not be controlled.

- a) Locate the HP LiteSaver icon on in the Windows System Tray.



- b) Right click the icon and select "Power Off Display" from the menu.



c) The display (monitor screen) should turn off if it is compatible. To turn the display back on, wait 5 seconds and move the mouse.

3. If the display (monitor screen) turned off in step 2 above but the monitor did not appear to enter into a low power sleep mode, then check the monitor OSD for any Power Saving enable/disable controls. Monitor Power Saving controls should be enabled to allow the monitor to enter into low-power modes.

If the display did not turn off then your computer graphics driver is not compatible with the HP LiteSaver program.



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