



FloatLED v1.11 - July 2011

*One of the few Drive LED software on the market that does what it is supposed to do:
Show drive activity and that's it!*

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<http://floatled.stone-oakvalley-studios.com>

What is the use of it?

Your regular drive LED on the hardware PC only have 1 physical LED light, meaning you'd never know if there was activity on another partition or physical drive. Think of it, we are in 2011, and still.....just one light?

If your laptop or desktop PC has a defective LED, you are hereby saved by FloatLED.

I don't really want to break my neck trying to see activity of the drive located down and right below underneath the table in the dark! We look at the screen, so, naturally drive LEDs should be located there too. Microsoft don't steal my ideas for intuition improvements! If you want, you can buy FloatLED source code for a couple of million \$.

It's just so cool to have full control of what the OS is doing to our drives isn't it?.

You are remotely positioned away from computer/server setups and can't see or hear the drive working and need to know what's going on.

Should work as intended in

WindowsXP Home/Pro, Win2000, Win2008*, Win2003*, Windows Vista and Windows 7
* "diskperf -y" may need to be performed from dos command.

It won't even try to start on older Window OS's as FloatLED checks the Window version upon startup. That means, Win3.11, Win95, Win98, Win98SE and WinME...and we might throw in DOS too, but that error message is not mine!

Does monitor

- Physical SATA and IDE HD drives
- Physical USB removable SATA / IDE HD drives
- Removable USB Memory Sticks, SD memory cards and similar flash based disks (Only for Windows Vista and above)

Does NOT monitor

- Floppy Drives, even those USB Floppy Drives.
- CD-ROM / DVD-ROM drives
- Network Drives or Network Activity
- SUBST'd "?:\" drive letters. If you try to SUBST B:\ to a physical drive, the B: would not be monitored, but rather the disk is was SUBST'd to. Just the way it is
- Possibly other non-standard Windows HD setups like 3rd party encrypted / compressed volume configurations

Rules for developing FloatLED

- An alternative to those other similar priced & bloated Hard Drive LED software on the market.
- Make FloatLED completely FREEWARE. Donations however accepted, but by far not required.
- No bloating, no ugly childish graphics/bad designed graphics, no bells, no whistles nor sounds.
- No skinned windows (typical of designers thinking they have created the “next big thing” within (GUI) design and layout).
- Just plain useful, and shows JUST exactly what it was intended to show....Drive ACTIVITY!
- Super space optimized, intelligent design and no tray icon filler.
- Use very low or no CPU-Time at all.
- Clean install, INI prefs, single exe (portable too), no registry entries and no hidden code and extremely stable.

Conclusion: I just reached those goals. An fine example of a serious project and a superb end result.

Some insight into the existence of FloatLED

There were some useful alternatives out there, but they was not in my opinion thoughtfully tuned/designed to what the software was really trying to accomplish. It should be out of workspace, non-interrupting, easy, non bloated or contain other functionalities that do not belong in such a software. Putting it into the tray is also not a good idea, because some people “auto hide” their taskbar. Their software would be useless!!

The solution was to have an on-top drag-able and lock position window functionality. The design of the LED was also thought hard of. Other software seemed to bloat the graphics, making the LED look like LEDs in the real world, with chrome, borders and artwork taking up those precious pixels, why oh why? Just because Apple have a shitload of air in their artwork, it don't mean the rest of the hurd have to follow, you know.

Just show LED activity with read, write and read/write + the Drive volume letter as small as possible and as clear graphics. Simple. So FloatLED was invented and created.

It will show all the volume letters in the system as blinking graphical icons simulating Read, Write or both at the same time. If you have 1 HD with 2 partitions, these will be shown as C & D for instance. The maximum amount of LED's is 26 (ABCDEFGHIJKLMNOPQRSTUVWXYZ) which is also the max in the operating system.

Installation & Usage

Use the provided installer to install it, a menu group will be made with FloatLED.exe, ReadMe_vx.xx.pdf and the Uninstall option along with the fact that the installer will add a entry in the Startup folder, so FloatLED start with Windows each time. To disable this, just run “msconfig” and uncheck it from the “Startup” pane.

The size of the window is 18, 24 or 30 pixel in height as default. Or, size it up yourself from 10 to 1024 pixels! If you have one drive, the icon/window will only be 26x18 pixels big horizontal or vertical (in default mode and including the minimize button). Place it somewhere on you screen, where it would not be in any way of your workflow. Or, just activate the click-through feature and you can click behind FloatLED too!

The FloatLED window (default)



The FloatLED window (in action)



- Will light up whenever there is activity on the selected drives.
- FloatLED supports “click and drag” window to position it. Click once in the FloatLED window and drag it.
- Clicking on a drive icon in the window will open its contents with “explorer ?:\”, in root folder.
- “|” or “--” button will minimize FloatLED to a tray icon.

Note: Visuality and operation will be based on your choices made in the Config Panels.

Other FloatLED window appearances

Here are a number of different ways FloatLED can appear on your screen. Showing TwoRow, Minimize button, Vertical or Horizontal, Small Indication Box, Separator lines and Transperancy.



Right click on the FloatLED window to get the menu



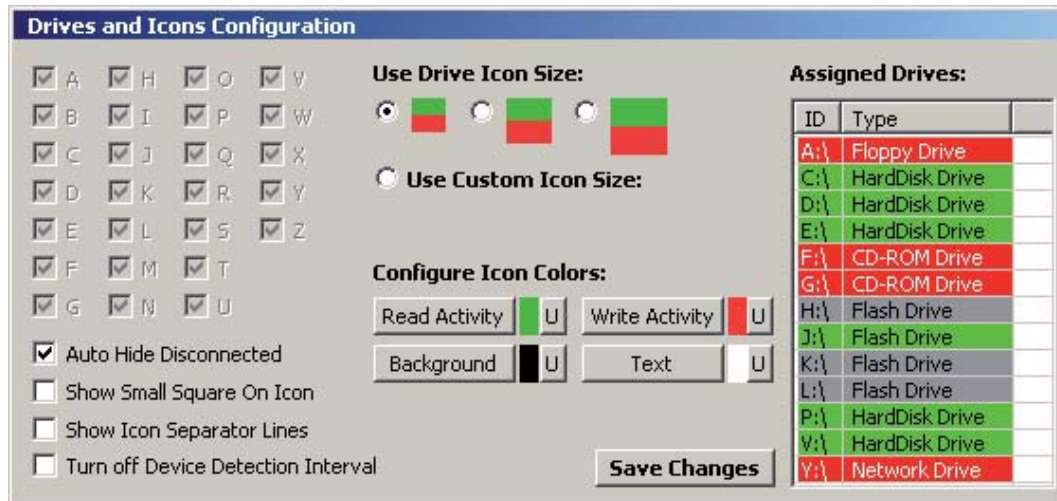
About FloatLED + revision & date	= Show some info about FloatLED.
View FloatLED Documentation	= Opens up the documentation file. From V1.07 it's .PDF, previous versions .RTF.
<hr/>	
Configure Drives and Icons	= Configure Auto/Non-Auto Show/Hide drives and Icon Colors and sizes.
Configure Window Options	= Configure Vertical Mode on/off, Minimize Button on/off, icon click configuration.
<hr/>	
Set Window On Top (once)	= Will make FloatLED front most window on top once. Although some software might override it over time. Like Adobe CS2. Please also see the "Make window always persistant" function.
Disable Window On Top (once)	= Will turn of the front most on top window functionality. It works like any other window now and falls behind others.
Lock/Unlock Window Position	= Lock FloatLED's window position and make it undraggable.
Save Window Position	= Saves the window position
Minimize To Tray and Disable Act.	= Minimize and disable the drive detection making FloatLED completely "dead" until you double click the icon again bringing up the FloatLED window.
Always Show TrayIcon	= Will add an icon to the Tray along with the regular menu option, so access is convenient.
<hr/>	
Restore FloatLED defaults	= Will reset everything back to author choices of FloatLED initial design. Overwrites all settings.
Exit	= Exit and saves the settings
<hr/>	
Uninstall FloatLED	= Worlds first uninstaller ever I would say. Though it would be useful and inspirational for others to copycat.
<hr/>	
Make a donation through PayPal	= Several happy users from around the world loves FloatLED so much they want to donate. It will take you to my FloatLED website, where there is a PayPal donation link where you can enter any amont of \$ you feel.

Update 2011: Thanks to the generous donations I have received from people around the world. I'm not a multi-millionarie yet, but keep at-it, someday its reachable and I'll invite you all to my exotic party island for drinks, music and dance into the morning and beyond...

Note: Every changes/choice made by user is saved automatically in the preference file (FloatLED.ini)

Configure Drives and Icons Menu

All changes are performed in realtime, so you know what to expect when you click "Save Changes. Picture is example only.



Single Drive Checkboxes, A-Z

Uncheck/check what you want to hide or show. Checked means always show, unchecked means always hidden.

Auto Hide Disconnected

Checked = FloatLED window will ONLY show drives detected by the Operating System and scale the window accordingly.

Unchecked = FloatLED window will show ALL and window will be in full width like shown and will respect whatever drives you manually would like to show instead (Single Drive Checkboxes above).

Show Small Square On Icon

Checked = FloatLED window will show icons with tiny square and respects

Unchecked = Don't show any tiny litte square ever never.



Notice the tiny little white square in the top right corner. It indicates that Windows has successfully found the drive, which of course makes also FloatLED be able to detect it's activity.

Show Icon Separator Line

Turns on a small 1 pixel graphical line between each icons for clearer viewing or not. See example above.

Turn off Device Detection Interval

If you have a very static drive setup and do not need the automatic detection of drives, use this to turn the checking off completely. It means that no icons will disappear or appear even if you add drives to the system.

Use Drive Icon Size

Will preset the size of the drive icons by FloatLED default suggestions.

Use Custom Icon Size

Enables you to scale the icons from 10 to 1024 pixels in height/width. If you have 26 drives, expect a veeeeery long line :-)

Configure Icon Colors

Allows for custom coloring of the Read, Write, Background and Text colors. The color box is the current color used. You may adjust them by clicking the appropriate button to see realtime changes. Press the "U" to undo to the last saved color.

Assigned Drives

Will show drives that are assigned in your system. RED=unsupported/not monitored. Green=Supported for monitoring, Gray=Supported for monitoring, but no disk inserted yet (typical for Multi Card Flash Readers).

Save Changes

Saves your configuration, exits window and resumes disk activity.

Configure Window Options

Most of the changes done here are done in realtime preview, so you know what to expect when you click “Save Changes. Picture is sample only.



Vertical Window Mode

Will allow to display all icons vertically if checked. Default off is horizontally

Dual Icon Window Mode

Will allow to display all icons in a two row or two columns. It's divided of available drives shown / 2.

Show Minimize Button

Will add a small minimize button at the end of the FloatLED window.

Enable Click-Through (disables “Left Double Click” below)

Will enable the click-through feature. Mixed with transperancy option, you can now click regular windows and stuff underneath FloatLED. Due to the function to work correctly, a brief flash is seen in of entire FloatLED window as you click.

Note: As this function interfere with the function below, that function will be disabled.

Use Left Double Click to Explore Drive

Will explore a drive when user clicks on any drive icon twice. Note: If the “Click-Through” was selected above, this function will be disabled and the “Middle Single Click” will be chosen instead.

Use Middle Single Click to Explore Drive

Will explore a drive when user clicks on any drive icon.

Enable Automatic Window Snap and Limiting

Will force the FloatLED window to automatically snap to edges of screen, be that multi or single screen. When this option is checked, note that you are unable to place the FloatLED window on-top of the Taskbar area, wherever it is placed on your screen. This is by FloatLED defaults checked on as it seems the most secure option for any first-time user.

Make window always persistant on-top (each 0.5sec)

Will force the FloatLED window to appear on-top at all times every 0.5 seconds. This function is very aggressive and could in some cases interfere with your fullscreen applications and games. If you also have the desire to put FloatLED on-top of your Taskbar area, wherever it is placed, you can be sure that FloatLED will fight for it's right to live...ehh.. float with this option checked on!

Prevent window on-top upon first-time run

Normally FloatLED would get on-top priority upon first-time run above all other windows running at that time. Here you can deactivate this feature and presumably kill the essence of the software, which is the urge to Float :-)

Set Window Transperancy

Will enable the FloatLED window to become transparent and show whatever is underneath it. The value can be adjusted from 10-255. A value of 255 is off. Mixed with the “Click-Through” feature this can be a very effective way to make FloatLED really transparent in both visability and usage (prevents FloatLED to obscure your other windows that much).

Save Changes

Saves your configuration, exits window and resumes disk activity.

Troubleshooting

Q: FloatLED was installed and seem to be running fine, but there is no activity on the LEDs!

A: This is caused by a registry setting called "Disk Performance Counter" which is probably disabled for some reason. (This seems to be OS defaulted to OFF in certain Windows 2003 versions or installations).

To enable the counter, and to know more, check this link: (Remember to restart after you've done the procedure)
<http://www.windowsnetworking.com/nt/nt2000/atips/atips25.shtml>

Or if you don't care, just run "cmd" via "START/RUN" on the OS menu, and type "diskperf -y" and press enter. See the result and restart your system. FloatLED should now happily show activity on the icons

Q: FloatLED icons flicker like insane insanity from the beyond the insanity itself and seems messed up!

A: This is because the window on top feature tries hard to get your attention. But, other full screen applications want your attention too and are doing so much faster than the standard window gadgets do. This is often seen in games.

To fix this, just choose the "Disable Window On Top (once)" from the FloatLED menu and make sure you really disabled the "Persistant Window" in the Window Config panel too.

To reset FloatLED back to defaults

Option #1: Just delete the FloatLED.ini file within the FloatLED installation directory and restart FloatLED. No problem!

Option #2: Choose the "Restore FloatLED defaults" from the right click menu. Everything is saved automatically.

Known issues or bugs

Can't think of any right now, mostly nothing left unsolved in the forums or via emails either.

It does not mean it will behave successfully in your system. Remember that there are millions of ways how people organize their desktop, system and such. FloatLED was designed and tested for many years on completely standard Windows installations and performed excellent.

Several changes was done to the main loop for V1.04, hopefully closing the lid on OS Hibernation, Sleep or CPU usage problems as reported in V1.02-V1.03. From V1.04 through V1.07 most updates to FloatLED concerned very minor bugfixes, but mostly improvements and expansion of options for the user regarding visibility or the logic of FloatLED to behave as human understandable as possible.

V1.08 and above should now not produce any network chatter as reported by several users.

FloatLED.ini file contents by default

```
; FloatLED v1.11 - July 2011 by Stone Oakvalley Studios  
; http://floatled.stone-oakvalley-studios.com  
;
```

```
[Settings]
```

```
WinX = 627
```

```
WinY = 150
```

```
Locked = No
```

```
Auto Hide Disconnected = No
```

```
Explore Drive With Mouse Button = 3
```

```
Vertical Mode = No
```

```
Show Icon Lines = Yes
```

```
Show Small Square On Icon = Yes
```

```
Drives = 11111111111111111111111111111111
```

```
ReadColor = 00D800
```

```
WriteColor = FF2626
```

```
BackColor = 000000
```

```
TextColor = FFFFFFFF
```

```
IconSize = 1
```

```
Custom IconSize = 10
```

```
Window Transperancy = 255
```

```
Device Detect Interval (seconds) = 10
```

```
Turn off Device Detect Interval = No
```

```
Minimize Button = No
```

```
Persistent Window = No
```

```
Click-Through = No
```

```
Dual Icon Window Mode = No
```

```
Window Snap and Limiting = Yes
```

```
Ignore On-Top upon First-Time Run = No
```

```
Always Show TrayIcon = No
```


Revisions and testing

v1.11 **20 July 2011 (Time to close the lid)**

- Added Since FloatLED is not filled with crap we don't need, I added the portable version of FloatLED.exe as well in the ZIP archive. Copy it anywhere/start it anywhere you want and take notice a FloatLED.ini file will be created in the same path where FloatLED exe was executed from.
- Removed "Request Administrator Mode for Vista" as its a confusing thing. If you have problem with it, install FloatLED into a directory outside of the "Program Files". No time to check further into this matter. Installing it outside in a directory called "C:\FloatLED" should take care of those who has the UAC popup window upon boot or that FloatLED does not seem to autostart itself even if the installer clearly does that automatically for you. IMHO UAC is a annoying piece of garbage which should have no life in the computer world. Use a decent virus killer application to secure and provide transparant functionality to Windows Vista/Windows 7 as we always was used to in Windows XP. UAC is for new computer people that should not use computers at all, and by saying that, the point is totally clear. It's pointless to have, just turn it off, which by the way, makes all of the above totally void and null anyway :-)
- Fixed A rare incident that if Two Row modes was selected and the user had 3 drives, unchecking one of these would leave the window just showing 1 instead of 2. Now it will show 2 icons correctly in both Two Row modes.
- Improved Added defined background color to the normally gray area left by an Two Row mode together with an odd number of drives. The icon has no effect and is just a graphical preference.
- Changed Text in menu "Minimize To Tray" to "Minimize To Tray and Disable Activity", because that is what it does.
- Added A persistant Tray Icon for those who have the need to see that FloatLED is actually running. The icon (if right clicked) will show the regular menu as you would expect if you did it in the FloatLED window.
- Fixed Revision string for FILE/PRODUCT VERSION was wrong in v1.10. It still said V1.0.0.9, which now has magically been set to V1.1.1.0 in regards of the current version.
- Added While pressing [U] button during color changes within the "Configure Drives and Icons" window it will also show it realtime. It was probably forgotten in a previous version of FloatLED, so, here it is at least now.
- Notice This will probably be the last FloatLED version ever to be worked upon. I feel the software is 100% now by the help of many users posting suggestions and bug reports. Thank you so much, we made it together, and for now, it's time to close the lid on FloatLED updates and leave it as a magical piece of free software that puts the word FREE back into it's rightfull place in the madness of internet combined with software world that has gradually saturated the feel and look of "free" software as some claim to pose. I will now close my eyes and imagine there is no bloating in the internet and software GUI design world along with the destructors of what free software once was. And, oh, I'm getting married later this year and my time will be focused on totally other things than nursing FloatLED even more :-)
- Did not make it Fullscreen option. Checking FloatLED with USB3.0 devices. Spindown detection (gray out icons).

v1.10 **01 May 2011 (Fixing the fixes)**

- Notice Figured out that Flash Media Acitvty is only available for Windows Vista and Windows 7. Seems that M\$ changed some code indeed.
- Improved Reworked all the code involving floppy drive detection mixed with Flash Media's. All flash disks should appear as intended now on Vista and above.
- Fixed Minor problem with tooltip not working properly if the drive scanned did not have any label (volumename) defined.
- Notice Discovered that adding a USB floppy device to the system will seriously confuze FloatLED and report it back as a regular Flash Drive and even confuze the available drive list. There is no good way to detect USB floppy as its return values interfere with those of regular Flash Based Media. It can all be traced back to Microsoft and their way of handling a SPINNING media and placing it under REMOVEABLE drive together with NON-SPINNING REMOVABLE DRIVE. Users with USB Floppies just have to live with it, a different solution is to scan hardware registry and deeper, but it just complicates the operation of FloatLED.

v1.09**23 April 2011**

- Improved The detection of flash disks if there was no physical floppy drive in the users system. Removed the checking for serialnumber, as not all flash things seem to have this. Sorry all trusted users, I failed you (in a way, but only if you didn't have a good old-school floppy installed...hehe). I can't live without a floppy, it's like the perfect emergency measure left on earth if the PC fail for some reason...
- Fixed A minor coloring bug of the drives available for scanning, not available and no disk inserted in the Assigned Drives window list. Also a small fix where the icon size defaulted back to 30 instead of 10.
- Fixed A minor loop during the Configure Drives and Icons causing FloatLED to drain 25% of CPU-Time. Not anymore!

v1.08**26 March 2011 (Fantastic update a.k.a Major Update again - flash devices now supported)**

- Improved Recompiled and changed some code to comply with official and final PureBasic V4.51 release.
- Added Now supports memory based flash cards, usb sticks and typical NON-SPINNING flash/memory devices. Old-school floppy drive IS spinning, and therefore it should not been mixed with the same flag also covering non-spinning devices such as memory stick! This is a strange design by Microsoft.
<http://msdn.microsoft.com/en-us/library/aa364939%28v=vs.85%29.aspx>
- It says that "DRIVE_REMOVABLE" can either be; *"The drive has removable media; for example, a floppy drive, "thumb drive, or flash card reader."* ****THIS IS WRONG LOGIC****. M\$ _SHOULD_, and I cannot stress this much enough, **** SHOULD ****, make a new flag at the bottom of the list indicating, real thumb drive, or flash card reader. They should leave the old-school flag of a real HARD MOUNTED FLOPPY SPINNING device in its own category. This makes no sense at all, and this is a SERIOUS logic flaw in all of the Window's OS's. It goes against its own specification. Anyway, adding some more code to FloatLED took care of filtering out Floppy from Flash Based assigned devices that has no media in it, and it do remind me of how Microsoft program their OS's, layers of stuff that filters out its own layers based on the previous layers going back to the origin of the layers and back to end and reverse, re-do, re-check...no wonder why we need QuadCore these days to take care of these small little things that M\$ can't seem to get their head around and do it logically correct instead of working with code from the 70's and adapting.
- Adding this code however will scan the floppy drive (normally A:\), so you will hear a click drive noise once. This only happen every time FloatLED start-up and *not* during the regular Detection Interval to detect changes to added or removed drives. It is 100% avoidable and only way to support Flash Based disks, as this detection flag within Windows also covers spinning floppy-drives. WRONG LOGIC, M\$!
- Changed "HDD Detect Interval (seconds)" now renamed to "Device Detect Interval (seconds)", since its not only HDD (Hard Disks) FloatLED detects, even flash based are detected in V1.08. The old INI entry will be renamed when saving, changing or exiting FloatLED, so it's consistent with the current naming and future versions.
- Added Minimal IconSize set to 10 (instead of 30) for those who really need that.
Remember you can use keyboard arrow keys to fine tune when this gadget is active.
- Added All changes to icons when using the Custom IconSize is also now realtime. Expect things to go slow updating/rescaling window if you go high!
- Added "Request Administrator Mode for Vista". I have no idea what its for, but somebody needed it. Anyway, it was just a checkmark in the PureBasic Compiler.
- Added A "Detected Drives" listview in the "Drives and Icons Configuration" window to let the user know what drives are scanned by floatled, what is present (without no disk in it) and those which are not scanned and supported by FloatLED. Only tested for HDD, FDD, Flash, Network, CD-ROM, RAM-DISK....any other...I have no idea what happens :-)
- Added Option to turn off completely the "HDD Detect Interval (seconds)" as this function WOULD also scan through network mapped drives as well. It was also renamed to "Turn off Device Detect Interval" in ini since we can detect flash based devices now as well (non-spinning).
Note that turning OFF the "Device Detect Interval (seconds)" will ignore the "Auto Hide Disconnected" as this function is 100% dependent on that 10 sec (default) scanning of all DRIVETYPES found in your system.

Improved	Some users reported "network chatter" by FloatLED. I must state that there is no network code added in my code, however certain API commands I use from MSDN *WILL* regardlessly scan the system for what is Physical Drive, Removable Drive, Floppy Drive, CD-ROM, Network Drive etc. So, now, the main routine only scans the known disks found in the system and not everything. Previously it did scan all drives and this happen every 50ms, we should be rest assured that the possible CPU time FloatLED once used to catch network drives should now be even lower....we might expect 0.0% CPU-Time now.
Fixed	Check for <1.07 upgrade to v1.08 to detect if FloatLED had max 24 drives. A and B drives were added in v1.07, causing it to become 26 letters, this would skew v1.06 and below settings by two drives to the right, maybe causing drive icons to disappear or act wierd.
Fixed	Fixed a minor bug in checking the flag "Ignore On-Top upon First-Time Run".
Added	To the detection loop if FloatLED window was outside the window area (like a resolution change happen) it will snap FloatLED window back into viewable desktop. This is triggered within the "HDD Detect Interval (seconds)" found in .INI file Note: If the "Device Detect Interval (seconds)" feature is turned off, a secondary trigger will anyway detect the window out of area every interval as specified in the "Device Detect Interval (seconds)" so no need to panic.
v1.07	10 October 2010 (Major update)
Improved	Recompiled and changed some code to comply with official and final PureBasic V4.41 release.
Added	Support for A: and B: for those who has that configured to Hard Disks instead of the conventional Floppy 3.5" and 5.25" (old school style)
Added	Support for Custom IconSize to max 1024x1024 pixels
Improved	Detection of "Program Directory". Sometimes the Documentation could not be read for instance. Probably the INI file would go wander off into oblivion too.
Added	Transparency to FloatLED window. Tested with Win2003, WINXP, VISTA, WIN7.
Changed	The text "Set Window On Top" to "Set Window On Top (once)" in the menu, just to point out it's done once and not any persitant behavior.
Changed	The text "Disable Window On Top" to "Disable Window On Top (once)" in the menu, just to point out it's done once and not any persitant behavior.
Added	A menu choice to my website and into the menu giving happy users to donate some cash through my PayPal account. No, it won't be a shareware or buy-it-software in future, don't worry.
Changed	Documentation into PDF instead of .RTF. The Office package and wordpad gives me literally the creps in terms of "helpful" formatting and the awfullness of Rich Text Technology just makes me wonder why it even has to exist. It's flat out, just awful to work with!
Added	Click-through feature, it's selectable by ON/OFF in the Window Config. This feature will in that case disable the "Use Left Double Click to Explore Drive" as it would of course interfere if the user click two times through the FloatLED window!
Changed	Values in INI files that previously show 0 or 1. We live in a material world and I am a material boy, so it now reads in Human Readable Text "Yes" or "No" instead. Not case sensitive. If anything else is detected than "Yes" or "No", it's set to "No" by default.
Changed	INI entry "HDD Detect Interval" to "HDD Detect Interval (seconds)" so it's understandable what's going on.
Fixed	A bug causing FloatLED to either show garble drive icons or actually crash totally if the user said "No" to a question to exit FloatLED (from the menu). Make up your mind, god dammit :-)
Added	A window behaviour (window snap) feature to make sure FloatLED don't wander off screen during nasty configuration by the user or by manual hacking in the INI file :-). If FloatLED is moved outside borders, it will make sure it stays 100% visible in length or height

Added	Dual Icon Window Mode (Row or Column when applicable) functionality, works as Drive Shown / 2. So if you have 8 drives, it gets 4 by 4 in 2 rows. Support both horizontal and vertical modes. Minimize button is scaled accordingly, but if you got only 5 drives shown, you'll get one grey area of nothingness.
Added	More real-time changes when you click any option in the Config Windows. Neat to witness.
Removed	"Cancel Changes" button in both Config Windows as I find the function and meaning more or less useless. Another reason was that most of the changes are done realtime now, so you see what happens anyway.
Added	"U" buttons as in "Undo Color Change" for each of the Color Options you could change. This had to be created since "Cancel Changes" button was removed and the inclusion of real time preview of coloring done instead.
Fixed	Behaviour of "Show Small Square On Icon" so it can be visible both in Auto Hide Mode and in Anti-Hide Mode of drive icons. Only a small unlogical behaviour from previous versions of FloatLED.
Fixed	A possible User Configuration incident if all drives were unchecked and save changes, the FloatLED window would disappear completely. Now, at least 1 icon is forced to show anytime.
Improved	Detect if FloatLED persistent window and window snap was off and that the FloatLED was positioned in the Taskbar area (it would be obscured and difficult to reach again). Either move the Taskbar or End Process to FloatLED would fix that, but now, FloatLED automatically jumps out of the area wherever the Taskbar is positioned and sized to prevent it falling behind it.

v1.06 **27 December 2009**

Improved	When checking on the Auto Hide Disconnected all the other separate drive checkmarks are ghosted to indicate a IGNORE feature for the user. Meaning they cannot be edited and thus be interpreted as fully functional checkmarks if so.
Improved	Change the window position for the config windows. In previous version it was forced to appear below the FloatLED window +50 pixels. Now, it just centers on the screen. Easier.

v1.05 **20 November 2009**

Added	Option to remove the tiny little square drive indicator if Auto Hide Disconnected was disabled.
Added	Added small tooltip info to each drive gadget showing stuff like: DriveLetter, DriveName, Filesystem and Free MB / Total MB or "?:\ not found in system!".

v1.04 **22 August 2009**

Improved	Recompiled and changed some code to comply with official and final PureBasic V4.30 release
Added	Vertical mode for window and icons.
Added	Brought back the "auto HD detection scale window mode as in 1.02" and thus removing the little notch box during this configuration.
Improved	Main and sub loops reconstructed/rewritten to handle events more silently, hopefully causing cpu time usage reported to drop to near zero....or at least over time in average.
Changed	Put menu choices that belong to configuring of drives into the Configure Drives window instead of filling up menu.
Changed	Put Window Config Options into its own window instead of filling up menu.
Added	Added drive explore behavior with option of LEFTDOUBLE CLICK or SINGLE MIDDLE BUTTON
Added	Changed some text elements on the menu. WindowOnTop is now spelled Window On Top
Added	Added menu item for documentation file.
Added	Option to show or hide separator line between icons.

Improved	Drive Window Config loop: It was put into a sub loop causing some delay when configuring drives. Ouch! Bad mistake.
Testing	Tested on plain installs of Windows 2000 and Windows 2003. No problems. Tested on local machines for 1 week, no issues detected.

v1.03 **14 February 2009**

Removed	Adjust Window Transparency function was removed. It messed up with the ontop features of FloatLED and resulted in strange behavior when dealing with full screen apps. I have no time to investigate into the matter, and basically I find the option useless. This because, one can adjust the colors anyway with the color requester making it appear more "mild" on the screen for those who thought that the initial default design was too harsh.
Removed	Removed the hibernation, sleep, standby detection mode. This because it seems the OS is sending other power messages during screen saver (even encountered that FloatLED minimized automatically while installing Photosynth!). This means the surveillance function for hibernation, sleep, standby WILL NOT minimize/deactivate FloatLED while the OS is trying to shut down. (there was one bug report that FloatLED was caught in a 100% dead stuck CPU loop upon OS waking up, but I never experienced that while testing on 3 different machines). So now, it is removed. If I had time to investigate it and filter it better the option would have stayed. But better to make the software stable than hanging on to loose ends and half tested functions.
Changed	When a HD was detected by OS, FloatLED would update the drive icon with a little square to indicate it being detected by the OS. This was interpreted by a user as a foreign letter C with a square above it. So, in order to avoid confusion, the little box was moved from top center of icon to top left of icon instead. Looks pretty good now.
Added	OS check flags for Window 2003 and 2008 was added. FloatLED denied to start itself if not.
Testing	Tested on plain installs of Windows 2000 and Windows 2003. No problems. Tested on local machines for 1 week, no issues detected.

v1.02 **24 January 2009 (Major update)**

Intro	Features added to FloatLED based on forum posts and email inputs from worldwide users along With my own ideas and bug fixes...although only one bug since v1.01 :) Actually v1.02 was half done during July 2007 and have been in testing up till January 2009 Update v1.01 to v1.02 was done during 3 days (ca. 12 hours of coding)
Update	Recompiled and change source where needed for complying with Pure Basic v4.20 engine.
Update	Replaced "ReadMe.txt" with RTF file instead: "Readme_v1.02.rtf" with more documentation!
Update	Cleaned up the menu design. Added Menu Bars to better group functions of FloatLED visually.
Bug Fix	Window position could be reset to 0,0 sometimes. Fixed now.
Change	<p>Completely rewrote the automatic HARD DISK Detection and visibility of the drive icons.</p> <p>In previous versions of FloatLED, ONLY drives detected in the system was shown as drive icons. The rest was always hidden from view. This has now changed to the following: All 24 drive icons are by default shown. This can be configured by user.</p> <p>If a drive is detected a small colored square (same color as used on the drive letter and line separator color, which follows user choices if changed) will appear in the drive icon's top right area indicating it is active in the OS. No square means the disk is not detected by the OS.</p> <p>This new approach of showing ALL drive icons even it's not detected will let the user decide what drive icons to show regardless. It allows the user to have more freedom to have a "known" hard disk like an USB drive visible at all times, if it's being plugged in and out a lot. Prevents automatic resizing of the FloatLED window.</p> <p>FloatLED will check for new drives each xx sec (set in the INI file to 10 sec by default). You may edit it yourselves by editing the entry "HDD Detect Interval" in the FloatLED.ini. The value should be set in seconds. Min value is 10 sec and Max value is 10000 sec (166.66666 minutes)</p>

Change	If FloatLED was already running nothing happens i.e. prevents multiple instances of it. On previous versions a nagging requester came up, but I seen no point in that anymore.
Added	A minimalistic RIGHT adjusted minimize button for those who are lazy to not go through the menu to minimize FloatLED to tray. This was added as an option to the menu. Either show or hide it. Default is hide as I never have the need to minimize FloatLED, but users requested it.
Added	"Set WindowOnTop" menu choice if FloatLED had previously lost its on top status. (Adobe Premiere Pro 2/Adobe Audition 2 for instance)
Added	Disable FloatLED's WindowOnTop menu item added
Added	Colors can now be set in own palette requester for Read, Write LEDS, background and font + separator line color. Colors saved in INI As Hex Values
Added	3 different sizes of icons now possible. Small, medium and large. Font will scale accordingly. Font is always Arial for the drive icons. Choosing other fonts can cause unpredicted results and Was not implemented due to lack of bug/font/time testing issues. Arial is such a good all around solid font anyway, won't you say?
Added	Double clicking on a drive icon will open it using the OS function i.e "explorer.exe ?:\\" where ? is the drive letter.
Added	Window Transparency function. Affects the entire window and icons. One can use the mouse wheel within the FloatLED window area to adjust it real time! Option also added to menu for those who do not have a mouse wheel around :)
	Note: This is only applicable For Window 2000, Windows XP, Windows Vista, Windows 7 and probably Windows x (future)
Ignored	<i>"Hovering over the drive icons will show a tooltip of its drive name, free space & used space etc."</i> Decided not to include this, as it has to be updated by regular intervals causing "banging" on the OS function GetDiskFreeSpaceEx_, GetLogicalDriveStrings_ functions etc. After all FloatLED is an HD Activity software and NOT any system hardware information system. True to my belief of "bloating" software is a decease of many programs today, which FloatLED and its creator takes very seriously ;-)
v1.01	Mid 2006
Bug Fix	The installer redirected FloatLED's directory into documents and settings, saving a ini file in the current user directory. Added code to retrieve the actual program directory instead.
Added	Save INI is done when user clicks on LOCK or UNLOCK window pos.
Added	Menu choice for saving position. Exit will also save current settings. Note: Due To the user possibility or OS shutting down FloatLED by "End Process" will cause a loss of configuration done by user. This is now workaround by saving INI every time something is changed via the menu by user.
Added	Menu choice to enable minimize to tray with tray icon. When de-minimizing is done, the tray icon is removed.
v1.0	Early 2006
Added	HD detection for Hard Drives and rescaling of window/icons - Tested for 3 days - no crashes or hang-ups detected. Released to the public via SoftPedia.com
v0.9	Sometime in 2005 Tested for 1 year until 2006 on two computers - no crashes or hang-ups detected.

Thanks and acknowledgements

Huge thanks to my friend Svein Engelsgjerd for letting me use a customized snippet code from his own DriveGleam.dll which he uses in his DriveGleam software - a more advanced LED monitoring software with PAR: LED features++

FloatLED was programmed by Stone Oakvalley - with the superb PureBasic from Fantaisie Software - www.purebasic.com

FloatLED uses code from DriveGleam.dll (c) 2005 Engeltex - Svein Engelsgjerd (waxhead@online.no)
DriveGleam was programmed in C by Svein Engelsgjerd.
<http://www.dirtcellar.net>

Thanks for the positive and constructive feedback from worldwide users.
You brought forward new ideas and wishes for FloatLED during 2007/2008/2009/2010/2011.

Awards:

<http://www.softpedia.com/progClean/FloatLED-Clean-36486.html>
<http://floatled.software.informer.com/awards/>

If you Google for FloatLED stay away from any other site than my own, Softpedia and Software informer.
Basically, just hit one of the 3 top most results and you are safe.

Regards,

Stone Oakvalley

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For updates, forum, older versions, manual, visit

<http://floatled.stone-oakvalley-studios.com>

or to steal some hours of your time, why not visit the ever lasting amazeness of my other sites:

<http://www.stone-oakvalley-studios.com>
<http://www.youtube.com/profile?user=StoneOakvalley>
<http://realm.stone-oakvalley-studios.com>
<http://www.paula8364.com>
<http://www.6581-8580.com>
<http://www.commoradio.net>
<http://www.ylvathewolf.com>
<http://www.moonfevermovie.com>
<http://www.trekransen.com> (norwegian language only)
<http://www.thenorwegianwedding.com>

Trivia and/or just random garble + rants

- How in the world did I manage to write 16 pages documentation for such an simple software?
- I wanted to release FloatLED v1.02 earlier, but it turned out that evening became night, and night became early morning the day I started working on the v1.02....thus causing 1 day of delay....just to find out that day 2 brought some problems with the icon redraw and all the other minimalistic functions and security measures I added in the coding aftermath.
- I managed to solve an issue during sleep, thus when I woke up from after 6 hours of coding the problem had solved itself and I inserted the code snippet from the back of my brain..... and problem solved.
- The source code size changed from 26kb to 35kb during the upgrade of v1.01 to v1.02
- To take momentary breaks from the coding, I ended up writing pointless stuff in this trivia instead.
- A lot of stuff not really thought of initially on my todo list was added during v1.02 coding, making the planned release date 3 days later than expected. It's dangerous to start to code you see. Never can stop a rolling stone!
- V1.04 was in my mind for several weeks until I decided to brute force myself during a Friday night after a good evening rest to code 95% of everything that I had thought of. 1 week later, déjà vu & v1.04 + documentation was finally available.
- V1.07 was the longest time I had sat down with coding since V1.01 so many years back. Coding time for V1.07 was about 30 hours (including documentation and website design). The year went fast by since V1.06 was released in December 2009, mostly due to the fact that my legendary Commodore Music Preservation MP3 project (SOAMC=) had a major update going on for 1 entire year. Check it out at www.paula8364.com and www.6581-8580.com. It's really insane and heaven if you are into nostalgic chip and computer music. And, yes, it is the biggest one ever created.
- During the coding of V1.08, I took a small break off to contact Microsoft. Microsoft never answered my question about the official eye exam proof for the designers of ClearText. I am positive that ClearText or No ClearText especially in Windows 7 will CAUSE eye constrain resulting in eye pain and immense headache, many people report that! To me ClearText is awful. I can see every color on a single pixel and differentiate them, making every letter in ClearText become blurry and fuzzy, irritating to me! I therefore wanted to know if there is a eye exam available for the designers of ClearText, cause their eyes are for certain different than mine, and I have had good sight all my life and no glasses needed, until Windows 7 appear and give me headaches! Within a few month I will take a eye exam and if my eyes are 20/20 good to go, I want to forward this to M\$ and DEMAND an eye exam of those designers of ClearText as well!
Now after V1.11 was released in July 2011, M\$ never answered by request, so, I suppose I stepped on a sore toe.... or shall I pun it and say; sore eye rather...haha.