

# LCD Image Retension

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- *From:* "Jerry G." <jerryg50@xxxxxxxxxxxx>
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## LCD Monitor Retention Fix

LCD monitors do not burn in. But, they do have the possibility of having image retention. This looks like a burnin, but it is not burned in.

Many of dealers have been telling their customers that an LCD monitor does not need a screen saver running, because it cannot be burned in. They are not aware of possible retention problems with LCD monitors.

Apparently, when the LCD crystals are held in to a particular position for a long period of time, they do not relax back to their proper default position. There is some theory about a buildup of heavy ion charges along the structure of the crystals that have been retained in their active non relaxed position. It appears that on faster and higher contrast ratio LCD monitors this effect can be more apparent.

Screens with phosphors such as a CRT or Plasma screen cannot be reversed once they have burnin. This is because these types can be actually burned. In these types of monitors it is the phosphors that become burned. An LCD monitor does not use phosphors, but it can have retention. The manufactures in both cases will not warranty the monitor for any type of retention or burnin problems.

Running a screen saver with any type of monitor is the best solution.

How to perform the fix:

Go to My Documents, and make a folder called LCD Retention Fix, or any name that you would like to use. What you will need are two full screen pictures. One must be full screen white, and the other must be full screen black.

Open the Paint program. Select Image and then Attributes. Set the Horizontal and Vertical to be proper for the monitor resolution that

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you are using.

Use the Fill With Colour option and make an all White palette for the full screen. Save this as White to the folder that is to be used for the LCD Retention Fix. Do the same but in Black, and call it Black. What you want is to have an all white slide, and an all black slide.

Go to the Display Properties. Select the Screen Saver. In the Screen Saver, select "My Picture Show", or "My Slide Show". Go to Settings for this option. In the settings, adjust the screen slide display size for 100%. Turn off all the special effects. Adjust the time for 10 seconds. In the Source file option, use the Brows option and set it to the folder for the LCD Retention Fix.

Set the Screen Saver to turn on in the period of time that you feel comfortable with. Most people use 10 to 15 minutes. Go to the Power option, and set the system to turn the monitor off not less than 1 hour.

What will happen is that when the screen saver is used, it will be toggling the LCD screen between black and white every 10 seconds. This will force the LCD pixels to twist through their full range from black to white. Eventually this is supposed to fix the problem.

For the first number of days, it may be a good idea to leave the monitor toggling through the black to white range 24/7.

Using this option as a screen saver for any LCD monitor should be ideal.

Some manufactures are saying that if there are retention problems with their monitor, switching it off for a long period of time should allow the crystals to relax back to their normal position. Some manufactures are saying that several days should be adequate, depending on how bad the problem is.

Comments About LCD Retention:

<http://photography.consumerelectronicsnet.com/articles/viewarticle.jsp?id=25497>

<http://www01.keren.nl/mediafiles/247.pdf>

<http://www.screen-wipes.com/plasma-and-lcd-tv-screen-burn.html>

Jerry G.

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