

## Re: Free 42" Plasma Screen if help remove/minimize screen burn !

**Source:** <http://sci.tech-archive.net/Archive/sci.electronics.repair/2005-02/0555.html>

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**From:** Sam Goldwasser ([sam\\_at\\_saul.cis.upenn.edu](mailto:sam_at_saul.cis.upenn.edu))

**Date:** 02/05/05

Date: 05 Feb 2005 11:45:51 -0500

Bob Urz <[sound@inetnebr.com](mailto:sound@inetnebr.com)> writes:

> *Sam Goldwasser wrote:*  
> > *"James Sweet" <[jamessweet@hotmail.com](mailto:jamessweet@hotmail.com)> writes:*  
> >  
> >> *"NSM" <[nowrite@to.me](mailto:nowrite@to.me)> wrote in message news:YdSMd.3106\$pN3.2019@edtnps84...*  
> >>>  
> >>>> *"Shawn D'Alimonte" <[shawnd@mycybernet.net](mailto:shawnd@mycybernet.net)> wrote in message*  
> >>>>*news:65adnXBoO7xtJZ7fRVn-3w@mycybernet.net...*  
> >>>>  
> >>>>> *dkuhajda@locl.net wrote:*  
> >>>>>  
> >>>>>  
> >>>>>> *Screen burn on these is permanent.*  
> >>>>>  
> >>>>>> *Well, you could display exactly the opposite image until the whole*  
> >>>>>>*screen is equally burned :-).*  
> >>>>  
> >>>>> *That's probably the ONLY possible 'fix'.*  
> >>>>  
> >>> *It is, and in the end the screens will be quite well used looking, the*  
> >> *unfortunate problem with plasma screens is they will burn in easily and once*  
> >> *it happens they're essentially junk.*  
  
> > *If someone could solve this problem, they would be foolish to post the*  
> > *solution here before patenting it. Think of the \$millions that could be*  
> > *made refurbishing plasma screen TVs!*  
>  
> *Sure, i got the solution. You buy some of those fake bullet holes that*  
> *they sell to stick on cars and put it on the plasma screen over the*  
> *burn marks!*  
>  
> *There is a solution, but its not cheap. The people with the ideas for*  
> *anti burn on the undamaged part of the screen are off base. Why? the*  
> *logo or image that is burned was a consistent image. The rest of the*  
> *screen probably had moving video that was constantly changing. So how*

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> *do you realistically do that?*

>

> *The solution is like a audio Mix minus. (or in this case a mix plus).*  
> *The signal goes into a video processor. The bad pixel areas are mapped*  
> *out by address, color and loss of color. The incoming signal sent to*  
> *these areas are then boosted to make up for the loss of the phosphor*  
> *intensity. Essentially, a look up table which will add signal intensity*  
> *to any signal goes into these areas. And compensates by how degraded*  
> *each pixel is.*

That is the perfect solution. You'd have to provide a fast memory with a gain constant for RGB at each pixel. But, that's no big deal anymore. If there's an accessible place to put it in the digital, that would be best. Else, you're going to have to convert to digital to do the lookup. The mapping could be determined automatically with a PC-controlled video pattern generator and photometer.

So, probably about \$100,000 of engineering time and equipment and you'll be all set. How much were you going to charge? :)

The AutoCal option would allow the user to test and adjust periodically.

--- sam | Sci.Electronics.Repair FAQ Mirror: <http://repairfaq.ece.drexel.edu/Repair> | Main Table of Contents: <http://repairfaq.ece.drexel.edu/REPAIR/> +Lasers | Sam's Laser FAQ: <http://repairfaq.ece.drexel.edu/sam/lasersam.htm> | Mirror Sites: [http://repairfaq.ece.drexel.edu/REPAIR/F\\_mirror.html](http://repairfaq.ece.drexel.edu/REPAIR/F_mirror.html)

Note: These links are hopefully temporary until we can sort out the excessive traffic on Repairfaq.org.

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