

File Name: Dell P991 Service Manual.pdf

Size: 3076 KB

Type: PDF, ePub, eBook

Category: Book

Uploaded: 29 May 2019, 16:23 PM

Rating: 4.6/5 from 823 votes.



Status: AVAILABLE

Last checked: 4 Minutes ago!

In order to read or download Dell P991 Service Manual ebook, you need to create a FREE account.

[Download Now!](#)

eBook includes PDF, ePub and Kindle version

[Register a free 1 month Trial Account.](#)

[Download as many books as you like \(Personal use\)](#)

[Cancel the membership at any time if not satisfied.](#)

[Join Over 80000 Happy Readers](#)

Book Descriptions:

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Dell P991 Service Manual . To get started finding Dell P991 Service Manual , you are right to find our website which has a comprehensive collection of manuals listed.

Our library is the biggest of these that have literally hundreds of thousands of different products represented.



Book Descriptions:

Dell P991 Service Manual

Please do not offer the downloaded file for sell only use it for personal usage. Looking for other manual For this no need registration. May be help you to repair. You could suffer a fatal electrical shock. Instead, contact your nearest service center. Note! To open downloaded files you need acrobat reader or similar pdf reader program. In addition, Also some files are djvu so you need djvu viewer to open them. These free programs can be found on this page needed progs If you use opera you have to disable opera turbo function to download file. If you cannot download this file, try it with CHROME or FIREFOX browser. Translate this page Relevant MONITOR forum topics Dell E 152 Sziasztok!Lehet,hogy ezzel a hibarol mar volt szo a forumban,de csak megkerdezne.A fent említett monitor kepernyoje sotet,es nem megy mogotte a windows sem.A szamitogep bekapcsolasakor a keszenleti sarga led,zoldre valt,es utana semmi.Csak inverter hiba lehet vagy mas is.A kapcsolasi rajz is megvan,de fogalmam sincs honnan induljak el,a monitorokkal meg most kezdem foglalkozni. Javitane egy Dell U2415 monitort. Sajnos nem talaltam hozza kapcsolasi rajzot. A tap panelen tipusa E162032 VOL.3, errol sem talalok elegett egy ellenallas, mely egy 16labu QIS98AGN jelolesu SOIC 9. labara megy a tapfesz felol. Feltetelezem, hogy azert egett el, mert az IC zarlatos. Keresek tehat ilyen ICT, helyettesitojet, adatlapot rola, szervizdoksit a monitorhoz, barmit. Elore is koszonom, lcsaszar Szerk kiderult, hogy a gyarto O2 Micro, helyettesitoi talan OZ9998H vagy GB98A. Megoldva komplett tapegysegpanel cserelve Dell Vostro A860 LCD panel helyett LED panel. Esetleg LEDes hattervilagitas utolag Sziasztok! Adott egy Dell LCD kijelzos b156xw01 laptop, amiben mar 2x javitottak a CCFL hattervilagitast. Most ismet meghalt. Szeintetek megoldhatoe, hogy LED hattervilagitasu panelre cserelem a mostanit a komplett LCD panel helyett vennek egy LED panelt.http://biofiat.com/images/fck_images/innotek-installation-manual.xml

• 1.0.

Vagy az adatkabel semmikepp sem lesz kompatibilis Youtubeon olyan videok is vannak, ahol a fenycsovet siman kicserelik egy LEDszalagra, es az inverter helyere egy LED meghajto aramkort tesznek. Van valakinek esetleg tapasztalata, hogy melyik megoldas jarhato, illetve konnyebben kivetelezheto Elore is koszonom! Udv,A fent említett monitorral kuzdok. A barmelyik gombot nyomom meg a egy lakatot tesz a kijelzore. Kivetel a bekapcsoló gomb. Hogyan lehet a gombok lezarasat oldani You can write in English language into the forum not only in Hungarian. It may not display this or other websites correctly. You should upgrade or use an alternative browser. I turned off the monitor right away at the switch, waited a few minutes, then tried to power it back up. It turned on, lost the picture within a fraction of a second, and began emitting a new barely audible sound. This sounded to me like a high voltage discharge so I disconnected the unit from the computer and carried it down to my bench for further analysis. This proved to be very easy since it was a glass discharge protector located at designation SG901. It lit up pretty much like a neon bulb. I kept it powered up just long enough to verify that none of the other protectors on the CRT socket board were lit and that the sound was coming from only the one device. I saw no obvious arcing or shorts anywhere. My assumption here is that the HV output has drifted high and the discharge is the protection which was designed to kick in working as expected. I have removed the main board, but do not have a schematic. Id like to start with the assumption that the protector is working as designed and check the values of the critical components in this circuit against their specified values. Unfortunately, I do not have a schematic to identify which ones they would be. Prior to encountering this issue, the monitor had worked flawlessly and I would prefer not to have to purchase a replacement.<http://chinathermalspraying.com/uploads/files/1607118888.xml>

Thanks in advance for your assistance and thoughts. BobSecond disconnect the base assembly and see if it arcs whilst disconnectedThe device that is sparking is a sealed glass bulb. It most closely resembles a neon bulb. My guess here is that the electrode distance is fixed and that the distance coupled with the type of gas inside the bulb probably determines the breakdown voltage. As such there is no way to clean the spark gap as you have recommended. I could certainly remove the device and see what happens, or find a replacement. I may even be able to swap it with one of the other devices on the CRT socket board which appear to be the same. I am leery of doing this though right away. I would prefer to test the critical devices first to see if any has drifted out of spec over time. I also would appreciate getting the schematic so that I can confirm the other devices are in fact the same value so could be swapped. Thanks again. Let me know if you have additional feedback or thoughts. Sorry for not being more clear on the type of voltage surge device being employed.

BobThose monitors are notorious for failing focus dividers on the flyback and capacitors going high esr in the power supply, both of which can cause the focus voltage to go too high and the spark gap to arc over. In addition the simple check is to make sure the ground pins on the flyback are all good. Rarely on some monitors if the divider resistor ground pin solder connection breaks loose the focus voltage also will go way high.I can retouch all of them as this is fairly simple with the board out. On the high ESR electrolytics, which component numbers or do you suggest I check them all. A quick visual inspection did not yield any that appeared to be bulging and I did begin to test ESR on the largest PSU section capacitors, but they checked out low in circuit with the Dick Smith ESR meter.

What I really need is the schematic so I can see what would cause the voltage to be high on that particular protection device. I could then remove leads of suspected resistors, caps, and diodes to test them correctly with my DMM and the ESR meter. This group has always come through for me in the past.Just wish I had the schematic! BobThis might be the info you want Hopefully will help with any other potential issues. Be aware that if something happens to corrupt the eeprom that holds the alignment data, you will have to send it off for repair as the computer interface and software to perform an alignment is not cost effective to buy for only one monitor.I thought they would be.pdf and could be read with Adobe Acrobat, but I do not think I have seen a.rar file before. If I can get these open then I can read what is there and see if this is what I need. Sorry to be such a pain. I do appreciate directing me here. This site did not come up when I did a Google search. It appears to have a lot of info and be from Bulgaria! BobI thought they would be.pdf and could be read with Adobe Acrobat, but I do not think I have seen a.rar file before. If I can get these open then I can read what is there and see if this is what I need. It appears to have a lot of info and be from Bulgaria. BobClick to expand. It never ceases to amaze me how this group always comes through. BobYoull need to choose a username for the site, which only takes a couple of moments here. After that, you can post your question and our members will help you out. Right click on the blue link Its in PDF format. If you can provide your email address the i will send it to you as attachment.Anyone have one Thanks, firstly check main power is coming. Answer questions, earn points and help others. Unfortunately, they both dont work the way theyre supposed to. Symptoms the screen is washed out in blue, and you can see diagonal scanlines.

<http://www.drupalitalia.org/node/70028>

When I run the color refresh feature, the blue and diagonal lines go away, but only while thats running. I dont know if the problem is tin whiskers in the gun, or bad caps, or what. On a side note, someone said something about special sony software they use to configure the monitors. Whats the deal with that Unfortunately, they both dont work the way theyre supposed to. Whats the deal with that Possibly touching up the screen voltage adjustment usually on the flyback will help. PlainBill Possibly touching up the screen voltage adjustment usually on the flyback will help. PlainBill This happens whether it be airplanes, cars, or monitors. FACT There is too much blue on the screen. Either the video card you used is defective, the video cable is defective, or the monitors all have the

same problem. I doubt it is the video cable because most monitors go to a black screen if the video cable disconnected. FACT There are obvious retrace lines on the screen. That means the video signal is not being blanked for the horizontal retrace; that is often caused by a misadjusted screen control. Both focus and screen settings tend to drift as a monitor ages. NOW, if you have any other ideas, I would be willing to give them all due consideration. PlainBill Either the video card you used is defective, the video cable is defective, or the monitors all have the same problem. I doubt it is the video cable because most monitors go to a black screen if the video cable disconnected. Once you take the cover off, and you have to go through a layer of sheet steel surrounding the whole setup. There are, I believe, focus controls on the flyback, but I dont know what else, if anything. If I cant fix these by adjusting those, Ill probably just toss them in a dumpster.unless I can find a place to repair them for me on the cheap. Apparently this monitor was also sold as a Dell. Heres something I found that doesnt even require a screwdriver.

<http://chamabusinesscenter.com/images/Craftsman-6.75-High-Wheel-Trimmer-Manual.pdf>

It resets the grey scale balance and should restore your Dell Trinitron model P991 to its original factory setting.It appears the Sony P991 uses DAS to set parameters. Apparently the problem you are seeing is often caused by using the Color return feature. And heres the skinny on how to do it. PlainBill Except mine was just really bright bad contrast, maybe pinkish but not blue. Developed the same barber pole lines when I gave up on it a few years ago. Looking it up on Google, it also appears to be the same age and has same specs as the G400. I wonder if these are the same monitor internally. Like you, I tried the color restore feature, and it worked for a while. But the problem quickly came back and color restore was no longer effective. Eventually it began shutting off when cold. When this happened it would flash red for a moment. It was like trying to start an old car in the winter. Dont know if yours is destined to do the same or not, but if these monitors are related then maybe that gives somebody another clue of whats going on. There are many, but ONLY One will be the problem. Cheers, Wizard I eventually got it cleaned out with small drill bits by hand but along the way I probably had a dozen different combinations of only some contacts making the connection. So Yes, it could be the cable, video card, or connectors at least insofar as the too blue part of the problem. And, if one pin or wire is damaged or degraded why cant two be,,, possibly causing those lines. Especially if they are shorted together.. It appears the Sony P991 uses DAS to set parameters. And heres the skinny on how to do it. PlainBill I was afraid these screens would be a terrible waste but now I have hope. I was also afraid the software might be totally unavailable. I found the service manual for the monitor, and it shows two adjustments on the flyback; Hfocus and Vfocuse. Before I start fiddling with that stuff, Im going to try the software first, but I need to build the interface.

<http://atamusavirlik.com/images/Craftsman-6.75-Hp-Eager-1-Manual.pdf>

FORTUNATELY I just recently picked up a MAX232 chip for a recent project. Stopped and picked it up, and it works perfectly. Its the P990. The only noticeable difference between the two P991s I have is that its a curved screen instead of flat. And please do discharge for safety reasons. Then turn on you monitor. It should work. Regards, jdimpas I wish Id known about all this stuff when I had that monitor. It was a great display when it worked. Excellent info. As mentioned above I just changed the R459. Fortunately, all 15 was like pristine working. Please dont forget to update us here. Finally I have some success with something. I still need to tweak it more, but I would rather edit numbers in a file than soldering resistors on a board engineered by engineers at Sony. Drinkin Time! Used the resistor hack on mine, and Im using it as I type this. Finally I have some success with something. Drinkin Time! Did you find this forum helpful. Many new service manuals, schematics, circuit diagrams and electronic documents are uploaded daily by our members. Since 2005 we are at your service of all electronic technicians. Images is beautiful. Im currently trying to get this to work Witch is 240p at 120hz to generate scanlines but keep the brightens Cant get it to work. Though Im using a hdmi to vga converter. SO currently Im using filters.Edit Found the service manual.Its like seeing a

naturally beautiful lady that's had heavy plastic surgery. Especially considering most of these filters are designed specifically for LCD pixel structure. Running at a vertical refresh of 120Hz allows the monitor to display 240p while maintaining a 31.5kHz horizontal sync. This is great to get real scanlines without using a shader which throws away half the screen brightness. A side benefit of 120Hz is that you get lower lag. To reduce motion judder, go into the video settings and set Vertical Sync Swap Interval to 2 from the default setting of 1.

Also if you're using a VGA monitor, don't forget to slide the sync switch from CSYNC to HV. When you say add scanlines, do you mean by using a scanlines generator. They get bigger as you drop in resolution, so at 240p your screen will probably be mostly black. Set your P991 to 120Hz on your PC and check this page out. The bottom UFO will be what your 240p games will look like. Not terrible, but 480p60Hz without scanlines might be the better option. The best option is actually 720p or 960p on an OSSC, because 480p is such a low resolution for the P991 that it displays scanlines, which is not good for 240p content you will have two scanlines for every one colored line in your 240p signal. Karmack wrote and there is something strange, 43 looks like 43 on a widescreen black bars. That's because SNES games don't have square pixels, and when you translate that to a resolution with square pixels, it squishes the image. The optimal thing to do here is to create a custom resolution with CRU. Karmack wrote: When you say add scanlines, do you mean by using a scanlines generator. The scanlines with an emulator would be via a filter in the emulator that does only scanlines. The problem with that is your P991 already has an aperture grille. So you're displaying a fake aperture grille over a real aperture grille. So CRU is not an option. And in the YouTube video I think it looks fine, but in the comments one user links to another way to do it that also looks good. User is fonarte. You have a P991. It can display up to 2304x1728 at 60Hz. So no need to limit yourself to 480p. Like I said, 480p is such a low resolution for the P991 that it already has scanlines. So if you use a scanline overlay, you're adding scanlines to scanlines. I'd say you need to run at least 960x720 or 1280x960, then add scanlines. It will look way better. Do you have an analog output on your RetroPi. Or are you running HDMI to a DAC. If so, what DAC. Thank you for all this info. I'm learning.

Previous I used solutions where everything is just plug and play. Most and probably yours top out at 1080p60, which is still more than enough to run 960x720 and 1280x960. But something like 1920x1440 would be out of the question. Will try Monday. So you're not noticing anything off about that. Many old school games run at 224p, not 240p, and it looks like you're not using an integer scale with 224p games. Look at Mario's buttons on his overalls 3 lines instead of 2, and the white of test suite guy's eyes 2 lines instead of 1. Scanlines are not landing in the proper spot. So for 224p games, you probably need to create some 896p resolutions, and either find an 896p overlay, or crop the 960p one. EDIT: I'll try to get some pics on my SD CRT to show you what they're supposed to look like. So you're not noticing anything off about that. EDIT: I'll try to get some pics on my SD CRT to show you what they're supposed to look like. I just found the option to integer scale. Will try it when I get home. You can then assign a specific png to each system using .ini files. Per driver is the fastest way, only need to make a handful. Dunno if it's doable with your thing though, RetroArch and alike remove a number of useful controls from MAME. EDIT: you'll never find a single overlay that adapts to all game hardware as Ben underlined, you'll need to have a number of those but if RA doesn't let you assign overlays per hardware like vanilla MAME using ini files, maybe there's another way per game. Honestly I haven't used RA in ages. Not sure about blur, but he seems happy with motion after that. You can then assign a specific png to each system using .ini files. Per driver is the fastest way, only need to make a handful. EDIT: you'll never find a single overlay that adapts to all game hardware as Ben underlined, you'll need to have a number of those but if RA doesn't let you assign overlays per hardware like vanilla MAME using ini files, maybe there's another way per game. Honestly I haven't used RA in ages.

Like this. erlaysEN Same 960p overlay as before. Lines just between the pixels. Can't go any bigger on

Hight. Why is that Should I not be able to go 5x on both Yes, what he does i.e. setting swap interval to 2 locks the frame rate to 60fps or more precisely, synchronizes the frame buffers swap in a better way which I guess ensures a solid 22 cadence every frame is repeated twice. But having repeated frames increases motion blurs on CRTs assuming a motion of 1000 pixel per second, every additional millisecond of sameframe visibility adds 1 more blurry pixel you can head to the BlurBusters website for more on this. Might be counterintuitive, but you can only blame humans vision system for it Why is that Should I not be able to go 5x on both. Not sure, but 3x240 is 720. So maybe you should make a 960x720 custom resolution so it takes up your whole screen. Or for 224p SNES games, 672p not sure about horizontal, youll need to look that up for the individual game and multiply by 3 or whatever. But yeah, those screenshots look pretty good to me. I guess the only issue is that they might be windowboxed not using your full screen Why is that Should I not be able to go 5x on both. I guess the only issue is that they might be windowboxed not using your full screen. I actually looked up about this on their forums myself and it appears theres more to it than that having a refresh rate thats twice the frame rate causes a doubleimage effect on CRTs. What I think happens is that when your eyes are tracking an object thats moving across the screen and appears twice in the same position, to your moving eyes that will appear as not one but two equal objects next to each other, separated by the same distance the eyes have covered in between the two equal frames. And thats how you get LCDlike motion blur on CRTs I guess. Thats sounds bad, but I dose not look that vad in the video. Or is this something that is technically correct but practically impossible to see.

Or is this something that is technically correct but practically impossible to see. It is actually quite noticeable. Set your CRT monitor to 120hz you can do this at 1024x768 and below on a P991 and go The top ufo will be 120fps, bottom one will be 60fps. The 60fps one leaves a slight double image not nearly as bad as 30fps at 60hz though. So blur is the wrong term, its more of a double image. Its not terrible, but its far from 60fps at native 60hz. Very often issues with Dell P991 begin only after the warranty period ends and you may want to find how to repair it or just do some service work. Even oftener it is hard to remember what does each function in Computer Monitor Dell P991 is responsible for and what options to choose for expected result. Fortunately you can find all manuals for Computer Monitor on our side using links below. Please upgrade your browser to improve your experience. I believe you must have a P99based monitor like the GDMF500 to do this. Cheers, Ross I cant remmember if it is G1W or G2. Cheers, Ross The G2 voltage is 522volts. good luck The G2 voltage is 522volts. good luck Would it be possible to email me the pdf. Would it be possible to email me the pdf. Update updated windas software and Dynamic convergence functions. celebrateukflag When only using static convergence my P991 seemed impossible to converge acceptably and Im talking BIG errors on the edges. I know that on some monitors convergence which I assume is static is done via varistors on the yoke of the CRT, I guess more curved and smaller monitors can do without dynamic convergence. How could sony converge all these large, flat CRTs without dynamic convergence. Theres got to be some way they did it in the factory. Anyhow, RAYMAN has sent me memos from sony detailing the oficial fix and diagnosis for the overbrightness problem and the poweron screen zooming.

It will take several seconds longer for detection of the standard state of color return, but the process and control commands is the same. 4. Control of deflecting system screen distortion Control of the deflection system is necessary after replacement of microcomputers. This change will not cause any problem about the Xray control standard. Perhaps this is a similiar micro controller with updated firmware burned into its rom. It looks like the problem was a software bug after all. My P991 exhibits screen zooming on power on. I will try this fix when I get the time. It concerns me that the Xray controll standard is mentioned, perhaps the ABL circuits limiting of average brightness was just an xray safety measure. Could changing the register values that controll the ABL make your monitor an xray hazzard. Good luck to everyone, hope RAYMANs info gives you some insight. Thanks RAYMAN! Is there anyone who has used this and if so can you tell me how Dcnv functions. Thanks

The changes on the far right are barely noticeable., changes on the left are a lot more drastic. I suggest displaying a crosshatch and running DAS on another computer. When you start up DCNV it will start in the suggested starting location, each time you hit next it will move you through to the suggested ending position. If you do the whole screen in that order you should end up with perfect convergence. Unfortunately, making small changes to just the parts you want to fix doesn't always work out, as it then affects other places, so you may have to do the whole screen in the suggested order even to fix just a bad corner. Depends on how bad the corner is really, if it's small you may be able to get away with fixing just it. Whatever you do, make sure to converge on a crosshatch, and make sure your geometry and static convergence settings are done first if you decide to change them at all. It took a long time, but gave better results compared to just tweaking the edges and corners. Good luck.

My P991 will do that hold down the center button about 4 sec when there is no signal however, it did not fix the brightness problem if it did, any theories about how it did it. I've heard that this is actually a clamp test for the ABL circuit. In my pretweaked monitor, it just slowly became very bright such that retrace lines were visible. Maybe on newer models the test will adjust something. Studying before and afters of the EEPROM settings will shed light on this. Thanks for clarifying the DB9 DB25 confusion and specifying exactly what to look for in the case of several alternate methods. Using the cd audio cable was a good idea, much more realistic than cutting the floppy power connector off of an old power supply. Has anyone found a cheaper prebuilt cable. I remember that one off ebay was quite a deal but they sold out. Then there were international shipping concerns. If we could find a dealer in each continent maybe we could eliminate shipping problems. Or keep tabs on ebay merchants. A folder will be created if you have not already made one. Call it windas. You must type in a folder location. For some reason pressing the Folder button caused many errors and the installer wouldn't install. Can't find the.lzh file Was that it If anyone still has a brightness problem, let me know Is white text on black background easier than black text on white background. Only advice I have is to mention that the fix works on ALL sony monitors with a microcontroller, Infact, I've had a sun monitor GDM20e20 wich was too dim, raised the G2 and all was well. The max232 can be replaced with cheaper chips, or chips that don't require external capacitors as was used by other users. This will change pin specific instructions. Some have sold max232 compatibles as max232s, may not also be pin compatible. Windas even works on some Sony LCD monitors, however, for some of the newer ones, monitor definition files are needed. they can be created, a howto on this would be spectacular.

Xweebie had added monitor definitions to the DOS das, so it has been done.. I apologize if my own howto has not been answering demand. I know I promised an updated section on building a cable with pictures, I still plan to do it. I couldn't really find any deals on breadboard.Tape and a butchered serial cable really seems to be the best way for people, but getting just the chip isn't so easy with minimum orders and shipping biases. It turns out that the prebuilt cable on Ebay was the best bang for your buck. However, I'm sure that enough shopping around will reveal a cheap doityourself deal that doesn't require soldering. People would finally stop throwing these things out, and CRT would become a very viable alternative to LCD. I sometimes wonder if Sony had sabotaged their CRTs to fail just as they started to mass produce LCDs, I doubt it, as they couldn't have planned on reaping all the LCD sales from costumers who had bought a failed Sony product. Putting the download into one file probably helped a bunch. Looking back at my installation instructions is kind of embarrassing. I had all the dlls in a zip on my site, but, I never linked to it. I wasn't brave enough to host the software, as the liscense on the signal generator software was actually present. Sony may be able to stop people from hosting it. Would you mind if I linked directly to your site. I understand if you refuse. Id suggest an already patched, clean copy of Windas with all DLLs be appropriately named and versioned, then put into your P2p share folders. Actually, make sure to use a multinetwork P2P client shareaza, mldonkey, etc. in order to increase exposure. Its important there only be ONE file, if

everyone makes one, which may be a little bit different, then people downloading one or the other may never find enough people online to finish the download. So for N different versions, we divide the possible number of people serving each version by N. Lets make sure that doesnt happen.

If anyone is interested, lets plan it here, finalize it, then we can each verify we have the same MD4 hash when done. My howto still exists, So my howto isnt dead, Ive just been dealing with school and other stuff. Summer time now. I will probably add sections on color calibration, CIE color, etc. CRT physics is a long way off, because, if I added it, it would be too flaky to be usefull, and probably be misleading. I guess I could atleast sketch how convergence and the aperture grille work, but I dont yet understand the mathematics and electronic implemation of the deflection and convergence circuits. There are also more annoyances on these monitors that take electronics level fixes, a howto that mentions how to understand the Sony service manuals would be invaluable. Thanks Dorian! Lets see if we can make this fix mainstream! They can make the cable up to your own specs. I know this thread isnt really about GDM FW900s but i have got one from 2001 and the picture is not sharp anymore. I have adjusted the focus on the flyback and the convergence rings but the picture is still no where near as good as it should be. Have i just got a naff one or do these monitors have a shorter lifespan than others. My mates one is from 2001 and the picture is perfectconfused2banghead Does anyone know where i can get a new picture tube for this monitor. Cheers Dell sony for the info and again setting up that lifesaving website respect Ross My Dell P991 looks as good as new well. Had to lower G2 to 88 from 104. Also tried 80 and 84, but these values seemed to alter the gammacurve of my monitor; black was black, white was white but dark shadows looked much too dark. Now I sit with brightness at 30, perfect picture. I also adjusted focus on the FBT, with a plastic screwdriver. Every one of these monitors Ive used has been way too bright, many with scanlines showing. Out of all of these, my P1110 is actually one of the better ones.

<http://www.drupalitalia.org/node/70031>