

Quick Start Guide for Trimon 2D/3D Convertible LCD Monitors (ZM-M190 / ZM-M220W)

< Overview >

1. **2D Mode:** The Trimon monitor in 2D Mode is like any other regular monitor - all operating systems, CPUs, and graphic cards are compatible.
2. **3D Mode:** For Stereoscopic-3D(S3D) functionality, the following characteristics apply.

Note: The monitor resolution must be set to its maximum resolution.

※ 19"(ZM-M190): 1280x1024 / 22"(ZM-M220W): 1680x1050.

a. S3D DVD Movies and Videos

The Trimon monitors come with **Stereoscopic Player** which operates on Windows XP/Vista operating systems, as well as ATI/Nvidia graphic cards, and is independent of S3D drivers(it has its own versatile built-in S3D processing solution).

b. S3D Gaming

1) Windows Vista with Nvidia Graphic Card(s) & Drivers

- Trimon monitors come with an Installation CD that includes Nvidia's ForceWare driver as well as its matching 3D Stereo Driver.
 - ForceWare: version 174.74
 - 3D Stereo Driver: version 174.76
- The ForceWare driver then the 3D Stereo Driver must both be installed in order.
- These drivers do NOT support Windows XP, ATI graphic cards, nor notebooks.

Note: The latest Nvidia 'GeForce Stereoscopic 3D Driver for Zalman' can be found at Nvidia's website.

※ Refer to **Downloading The Latest Drivers** under the **3D Gaming** section (page 5).

2) Windows XP with Nvidia Graphic Card & Drivers

- It is possible to use Trimon monitors in S3D with Windows XP and Nvidia graphic cards utilizing the following downloadable Nvidia drivers.

a) Forceware '91.31_winxp2kmce_english_whql'

In Nvidia's homepage(US site), in the upper right hand corner there is a search input area marked "search NVIDIA". Search for "forceware 91.31" > Click 'WinXP/2k 32-bit', or click the link below.

http://www.nvidia.com/object/winxp_2k_91.31.html

Download the version according to language preference, uninstall the currently installed version of ForceWare, then install '91.31_winxp2kmce_english_whql'.

or

Search online for "forceware 91.31", download, uninstall the currently installed ForceWare version, and install ForceWare '91.31_winxp2kmce_english_whql'.

Note: Install the ForceWare first, then install the 3D Stereo driver.

b) Legacy Stereoscopic 3D Driver '91.31_forceware_3dstereo'

Download from the following Nvidia website and install.

http://www.nvidia.com/object/legacy_stereo_3d_drivers.html

Manual Path: www.nvidia.com

> DOWNLOAD DRIVERS > Download Drivers

> Under 'Additional Software and Drivers' > GeForce Stereoscopic 3D Driver

> Located to the right of "Version 91.31", click the 'Download Now' button

- > Choose and click one of the download links
- > Click 'Accept' (regarding license)
- > (You can subscribe or ignore the Nvidia Newsletter subscription page.)
- > (The web browser may block the download initially and ask for user confirmation. Click the associated upper message bar and in the scroll down menu, click 'File Download' or equivalent.)
- > Click 'Save' > after download is completed install the 3D Stereo Diver.

※ **Note**

- The two drivers of version 91.31 must BOTH be installed.
- These drivers do NOT support Windows Vista/Windows 7, ATI graphic cards, nor notebooks.
- **These drivers do NOT support GeForce 8000 series cards or higher.**
- **These drivers do NOT fully support multi-core CPUs(only one core will function).**
- **These drivers do NOT support SLI (multi-graphic card configurations).**

3) Windows XP/Vista OS + ATI/Nvidia graphic cards + Notebooks

There is a **3rd party S3D driver/software** by DDD called TriDef 3-D Experience which is a more versatile driver in terms of compatibility, that supports both Windows XP/Vista and both ATI/Nvidia graphic cards as well as notebooks.

For more information on Zalman's website use the following site

<http://www.zalman.com/eng/Contact/News/read.asp?idx=590>

or for all the details on DDD's website use the following site.

<http://www.tridef.com/3d-experience/overview.html>

※ **Hardware Configuration Example**

Options for a system with Windows XP + Nvidia GeForce 8500 GT for S3D gaming.

1. Upgrade to Windows Vista and use current(the latest) Nvidia drivers.
2. Use a 7000 series or lower GeForce graphic card and legacy drivers(91.31).
3. Get TriDef 3-D Experience and use the system as is.

For details regarding 3-D Experience use the following links.

<http://www.zalman.com/eng/Contact/News/read.asp?idx=590>

and

<http://www.tridef.com/3d-experience/overview.html>

If the main interest is not gaming, and more so on S3D movies/videos/animations etc., then Stereoscopic Player will be enough without hardware/software modifications to the system.

< Step by Step Instructions >

I. Watching 3D-DVDs and Video Files

1. Install the latest version of 'Stereoscopic Player Zalman Edition'.
 - a) Installation CD version 1.4 has Stereoscopic Player Zalman Edition version 1.3.2*.
*DVD Version – plays back S3D DVDs just like regular DVD playback except in S3D.

Note: Early release Trimon monitors came with an Installation CD version 1.2 which has Stereoscopic Player Zalman Edition version 1.1.2 (without S3D DVD direct playback function - * DVD playback possible only via manually opening each video data file).

- b) If the Installation CD is version 1.2 or version 1.4 has been lost, download from Zalman's website

(refer to the following information No.3).

2. If you have already installed Stereoscopic Player from the Installation CD, please check the following.
 - a) Installation CD version 1.2 = older, version 1.4 = latest version
 - b) Stereoscopic Player's 'Help' menu > 'About Stereoscopic Player...' > check the version number.
3. If the version of Stereoscopic Player is not 'Version 1.3.2' then please do the following.
 - a) Uninstall Stereoscopic Player.
 - b) Download the latest version of Stereoscopic Player Zalman Edition DVD Version (v1.3.2).
 - 1) Go to www.zalman.com (English site).
 - 2) Customer Center > Downloads > Click 'Product Software Download' > Category – select 'Monitors' > Go to 'page 2' > Click 'Stereoscopic Player(DVD version) & Manual Download' > Downloads > Click icon next to 'Player&Manual.zip' or
 - 3) Go to http://www.zalman.com/ENG/Contact/Download/SoftWare_List.asp > Click page 2 > Click 'Stereoscopic Player(DVD version) & Manual Download' or the icon next to it.
 - 4) Save 'PlayerManual.zip'.
 - c) Unzip and install Stereoscopic Player 1.3.2.

In Stereoscopic Player version 1.3.2

(S3D DVDs)

Note: You may have to first install an MPEG-2 codec(libmpeg2/mad) if it is not yet installed in the system. Please search and download an MPEG-2 codec (libmpeg2/mad) from the internet and install.

1. Insert S3D DVD.
2. File > Open DVD.
3. In the pop-up window, select the DVD/drive, Click OK.
4. If there seems to be no depth,
 - a) Increase the depth by pressing 'Shift + Right Arrow Key' ('Increase Horizontal Parallax').
 - b) Decrease the depth by pressing 'Shift + Left Arrow Key' ('Decrease Horizontal Parallax').

(S3D Videos)

Note: You will likely have to **install a 'codec pack' such as 'K-Lite'** (there are various free downloadable codec packs online) for Stereoscopic Player to play videos.

1. File > Open File
2. Select video file.
3. Select 'Layout' – the format of the S3D content.
4. Set/Select 'Aspect Ratio' (screen ratio)
5. Click OK.

Play around with some cool essential features

1. The L/R flip switch like icon flips the Left Eye View and the Right Eye View orientation. Select the setting that allows the least strain for clearest S3D perception and you will have the 'right setting'.
2. If there is a lack of depth or there is too much double vision, increase or decrease the depth control(left/right image displacement distance) by pressing 'Shift + Right Arrow'-Increase Depth ('Shift + Left Arrow – Decrease Depth). Note that when you do not see a double image without the glasses, the depth is 0(zero) and needs to be off set for S3D viewing.
3. Double-Click the main screen for 'Full View' mode (do it again to return to window mode).

II. 3D Gaming

< Using Nvidia 3D Stereo Driver >

• System Requirements

- Desktop PC with a GeForce or Quadro card supported under Windows Vista. Visit the following link for a complete list: http://www.nvidia.com/page/technology_vista_home.html
- Zalman Trimon 2D/3D Convertible LCD Display.
- 3D Stereo can be viewed on Zalman LCD displays only. Any other type of monitor can display 3D Stereo with the driver set to anaglyph mode.
- 2.4 GHz or better Intel or AMD CPU.
- 512 MB or better system memory.
- Windows Vista with DirectX 8 or later runtime installed.
- NVIDIA ForceWare™ graphics driver must be installed.

Note: The NVIDIA stereo driver is not intended for notebooks with NVIDIA graphics cards.
Do not attempt to install this driver on a notebook computer.

• Installing Drivers From the Installation CD

1. Uninstall the currently installed graphic card's ForceWare driver.
 - a. In Windows, open the Device Manager
 - 1) Right-click 'My Computer' on the Desktop.
 - 2) On the left side window, click Device Manager.
 - b. Click 'Continue' if the security pop-up window appears.
 - c. In Device Manager, click and expand 'Display Adapter'.
 - d. Right-click the Nvidia display adapter > Properties.
 - e. In the Nvidia display adapter window, select the 'Driver' tab.
 - f. Click Remove > OK.
2. Install Drivers from the included installation CD – Manual & Installation CD (Version 1.4).
 - a. Insert the CD and select 'Open folder to view files' from the pop-up menu.
 - b. In the 'ForceWare_Geforce_WinVista_174.74' Folder, run 'setup'.
 - c. After the 'ForceWare' is installed, reboot.
 - d. In the '3D Stereo Driver_Geforce_3D_StereoE_WinVista_174.76' Folder, install 'Geforce_3D_StereoE_WinVista_174.76'.

Note: Refer to the 'NVIDIA 3D Stereo User Guide'* if assistance is needed during installation.
* In the Installation CD's 'Manual' Folder > '3D Stereo Vista Users Guide_v01' Folder > Open the '3D Stereo Vista Users Guide_v01_eng' User Guide.
 - e. After the 3D Stereo driver is installed, reboot.
3. **Set Screen Resolution to 1680x1050.**
 - a. In the lower right section of Windows Taskbar, right-click the NVIDIA Settings icon.
 - b. Set Screen Resolution to 1680x1050.
4. Configure 3D Stereo using the 3D Stereo Control Panel.
 - ※ Refer to the '3D Stereo User Guide'.

• Downloading and Installing The Latest Drivers

(ForceWare Download)

1. Go to www.nvidia.com .
2. Download Drivers Menu > 'Download Drivers'.
3. In the NVIDIA Driver Downloads page, select either Option 1 or Option 2 to download the latest ForceWare for the current graphic card.
4. Uninstall the previously installed ForceWare, reboot.
5. Install the latest ForceWare that was just downloaded, reboot.
6. Don't forget to set the monitor to its maximum resolution.
 - ※ 19"(ZM-M190): 1280x1024 / 22"(ZM-M220W): 1680x1050.

(3D Stereo Driver Download)

1. Go to www.nvidia.com .
2. Download Drivers Menu > 'Download Drivers'
3. Under 'ADDITIONAL SOFTWARE AND DRIVERS'(lower half window) > Click 'GeForce Stereoscopic 3D Driver'.
4. In the 'Legacy Stereoscopic 3D Drivers' page, click the link 'Windows Vista or Windows 7' in the "Note: If you are an existing Zalman Trimon user, download the latest Windows Vista or Windows 7 driver for your 3D display."

In the 'GeForce Stereoscopic 3D Driver for Zalman' page

For details pertaining to the particular version of Stereoscopic 3D Driver click on the 3 tabs

- **RELEASE HIGHLIGHTS:** updates and links for **full list of supported games** and ratings.
- **SUPPORTED PRODUCTS:** mentions supported versions of Windows and Zalman Trimon Monitors.
- **ADDITIONAL INFORMATION:** links to **Quick Start Guide**, User Manual, Tips and Tricks.

5. Download the latest version of GeForce Stereoscopic 3D Driver for Zalman.
6. Before installing the Stereoscopic 3D Driver, **be sure to have installed the regular ForceWare driver with the same version number as the Stereoscopic 3D Driver** (refer to the 'RELEASE HIGHLIGHTS'). In other words, the ForceWare and 3D Stereo Driver versions should match.

Note: The version numbers after the point(".") can differ, but the main version numbers before the point should match. For example, ForceWare v**174.74** and 3D Stereo Driver v**174.76** work fine.

7. Refer to the 'Quick Start Guide' under the 'User Guides' tab mentioned above.

< Using an Alternative Driver for Windows XP, AMD/ATI Graphic Card, and Notebooks >

DDD's TriDef 3-D Experience which is a 3rd Party independent S3D software/driver solution **supports Windows XP/Vista as well as both ATI and Nvidia cards and even notebooks!**

* On Zalman's Homepage check out 'News & Notice' > "Mind Blowing 3D at the Lowest Price Ever!" regarding a **20% discount for 3-D Experience**.

Also visit the TriDef 3-D Experience website for all the details.

<http://www.tridef.com/3d-experience/overview.html>

For technical support - Write to Jihoon Jo (jhjo@zalman.co.kr).