ZALMAN
COOL INNOVATIONS

Let's enjoy the 3D in Zalman

TRIMON

ZALMAN 3D Monitor

[User Guide]

www.zalman.com

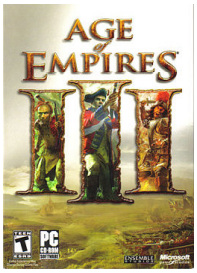
3D Game

We would like to explain what kinds of games supporting 3D and what you should do before you play 3D games. And here are some comments on our 3D monitor.

「I did not know how exciting it was until I played PC games in 3D. But once I played PC Games in 3D, I definitely know the difference between 2D and 3D. And I would never ever satisfied with 2D Games now」

「When I play shooting games, the bullet seems like to come through the monitor. So the 3D gives me some tense and the tense make me exciting」

For example, you can play these very famous PC games in 3D!!



You can find out what kind of games make you crazy and what you should do before playing 3D games in [3D Game List] and [How to enjoy 3D game] as below.

3D Game List

Age of Empires 3	Half-Life 2 - Episode 2
Age of Empires 3 - Asian Dynasties	Half-Life 2 - Portal
Age of Empires III - The War Chiefs	Half-Life 2 - Team Fortress 2
Age of Mythology	Harry Potter and the Order of the Phoenix
Age of Mythology - Titans	Heroes of Might and Magic 5
Assault Heroes	Loki
Bee Movie the Game	Lord of the Rings Battle for Middle Earth I
Beowulf	Lord of the Rings Battle for Middle Earth II
BioShock	Madden 2008
Blazing Angels 2 - Secret missions of WWII	Maelstrom
Call of Duty 4	Meet the Robinsons
Call of Juarez	Medieval 2 - Total War
Civilization 4	Mage Night - Apocalypse
Command and Conquer 3 - Tiberiam Wars	Medal of Honor Pacific Assault
Crysis	Monster Jam
CSI: Hard Evidence	MotoGP URT 3
Dead Reefs	NBA Live 07
Driver Parallel Lines	NBA Live 08
Empire Earth 3	Need for Speed Carbon
F.E.A.R.	Need for Speed Pro Street
F.E.A.R. Perseus Mandate	Need for Speed Underground 2
Fable - The Lost Chapters	NHL 07
FIFA 07	NHL 08
FIFA 08	Oblivion
Flatout	Oblivion - The Shivering Isles Expansion Pack
Fantasy Wars	Pirates of the Caribbean - At Worlds End
Far Cry	Phantasy Star Universe
Gears of War	Real Flight
GTR 2	Rogue Trooper
Guitar Hero 3	Race 07
Half-Life 2	rFactor
Half-Life 2 - Episode 1	Spiderman 3
rFactor	Tiger Woods 2008
STALKER - Shadow of Chernobyl	Titan Quest
Star Wars - Empire at War	Tomb Raider – Anniversary
Supreme Commander	Torino 2006
Sam and Max - Season One	Two Worlds
Sega Rally Revo	Unreal Tournament 2004
Supreme Commander - Forged Alliance	Vanguard
The Settlers - Rise of an Empire	World in Conflict
The Witcher	World of Warcraft
Tiger Woods 2007	World of Warcraft – Wrath of Lich King

- The list above will be regularly updated with new games.
- Using the monitor in 3D mode for more than 1 hour (Playing games, watching videos etc.) could cause dizziness. Please take a brief rest after 1 hour of using the monitor in 3D (the time for causing dizziness varies individually)

How to Enjoy 3D Game

PC Environment

- OS : Windows Vista 32/64 bit
- Graphic Card: nvidia 6000 series ~ 9000 series / Quadro

  * None of ATI Card will support 3D Game

Install and set up nVidia graphic/3D Stereo Driver

- Install nVidia graphic Driver
- Install nVidia 3D Stereo Driver
- Set up nVidia graphic Driver
- Set up nVidia 3D Stereo Driver

  * You can check nVidia 3D Stereo Driver User Manual in below.

    => http://www.zalman.co.kr/ENG/Contact/Download/SoftWare_List.asp

Other Settings

- Uninstall nVidia graphic Driver
- If you can not change PC Games into 3D
- In case there is no 1680*1050 resolution in Game Graphic Setting

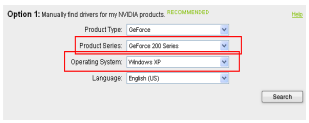
2D/3D Conversion

- 2D/3D convert ion: Control Key + T(This is default and you can change the key)
- Depth adjustment: Decrease depth F3/ Increase depth: F4
- Convergence adjustment: Decrease Convergence F5/Increase Convergence: F6

Install nVidia graphic Driver

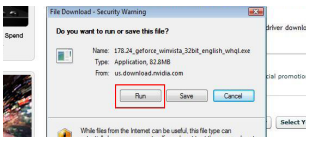
1 Please visit nVidia web site in below
=> http://www.nvidia.com/Download/index.aspx?lang=en-us

2 Please insert your OS and type of your graphic card

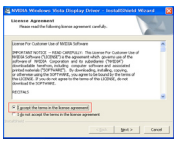


3 Please make sure there is a comment in below [Supports NVIDIA GeForce 3D Stereo Technology.]
If there is no comment above, please find other graphic driver which have this comment and install it.
Please check [I have read and agree to the terms and conditions of the NVIDIA Software License Agreement.] and Click Download Now.

4 Once you download the driver, please execute it and you will see the right image



5 Once you see the right image, please check
[I accept the terms in the license agreement]



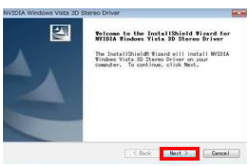
6 Please check [restart computer now] and click finish

Install nVidia 3D Stereo Driver

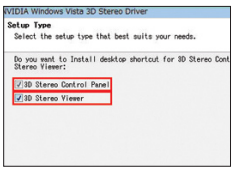
1 Please download nVidia 3D stereo driver [GeForce 3D Stereo Driver：Version: 174.76] in the website below => http://www.nvidia.com/object/3d_stereo.html

2 Please download 3D stereo driver and execute the file

3 Please select [Next] as in the right image



4 Please check「3D Stereo Control Panel」and「3D Stereo Viewer」
and click「Next」

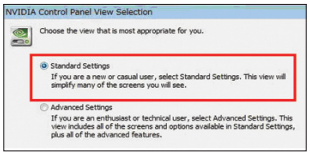


5 Please click [Finish] and you are ready to roll!

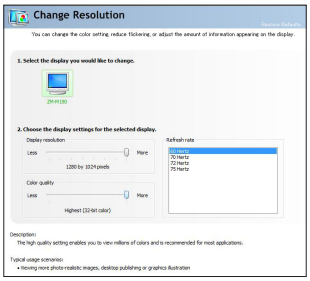
Set up nVidia graphic Driver

1 Please right click and choose「NVIDIA Control Panel」

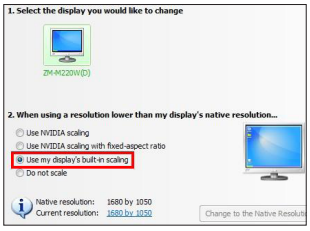
2 If this is first time to set up nVidia graphic driver, you can see right image. Please choose [Standard Settings]



3 Please choose「Change Resolution」and enter
「2. Choose the display settings for the selected display.」
Please set the highest resolution
Please also set the highest resolution on monitor and game Graphic
Highest resolution: (19inch：1280×1024/22inch：1680×1280)



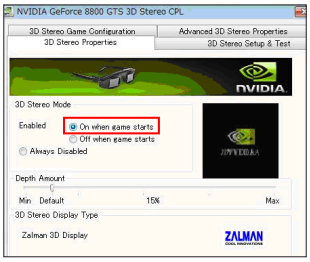
4 Please choose「Change flat panel scaling」
Please choose「Use my display's built in scale」at「2. When using a resolution lower than my display's native resolution」
And choose apply.



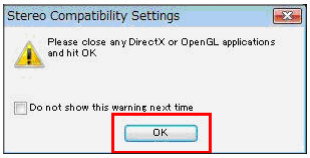
Set up nVidia 3D Stereo Driver

1 Please click「3D Stereo Control Panel」in right

2 Please choose「On when game starts」at「3D Stereo Mode」and click apply

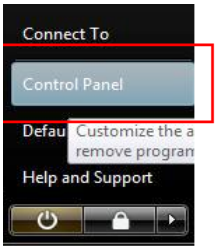


3 Please choose [OK] in right image and View the Medical Test image and verify that you can see the smaller square. When you have finished with the test, press the Esckey to exit the Medical Test window. And that's all.



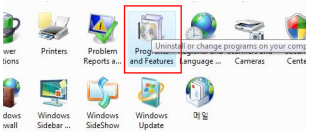
Other Settings

* Uninstall n Vidia graphic driver
(If your PC is already installed nVidia graphic diver, Please uninstall it and install the newest graphic driver which support
NVIDIA GeForce 3D Stereo Technology.

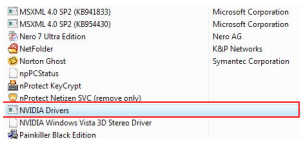


1 Click Start => Choose Control Panel

2 Please go to [program and features]

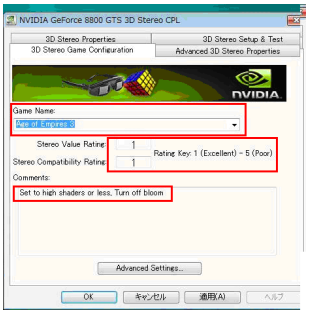


3 Please Choose「nVidia Drivers」and uninstall it.

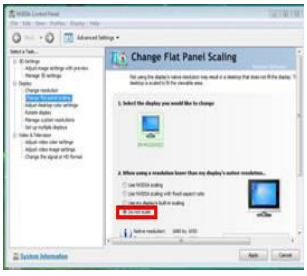


* If you can not change games into 3D
Please go to 3D Stereo Control Panel then, choose「3D Stereo Game Configuration」and choose game title that you would like to change into 3D and see the comments.
Please follow the comments on the screen and set the game Graphic

- Number 1: stereo effect is the best ~ 5: worst



* In case there is no 1680*1050 resolution in Game Graphic Setting
Please go to n Vidia Control Panel and choose「Do not scale」
at scaling setting.



3D Content

You can enjoy a lot of 3D contents which are very impressive and are very different from 2D contents with stereoscopic player which is 2D/3D Media Player included in our monitor. And a lot of movie companies in Hollywood are going to produce 3D Movies. So you can enjoy more 3D movies from now on.

You can watch some 3D Contents in below website

- http://www.stereopia.com/english/gallery/3d.html
- http://www.3dtv.at/Movies/Index_en.aspx
- http://www.gali-3d.com/gallery/video-gallery-en.php
- http://www.wbloos.de/hobbys/stereoskopie/3d-video_eng.html
- http://v-galleries.com/index.html
- http://stereomaker.net/ai/3dflower/3d_f001.htm

You can find out how to install stereoscopic player / codec to watch 3D Contents below.

3D Picture

Once you use StPaint(2D/3D Convertible Software), you can change almost all of your favorite pictures and images (not movies) into 3D.

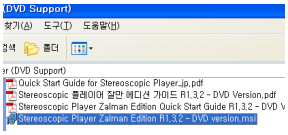
You can change the part of images or picture you painted into 3D with this software.

- You can get trial version of StPaint in below.

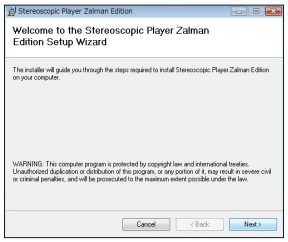
http://www.texnai.co.jp/eng/stereo3D/StPaint/index.html

Install Stereoscopic player

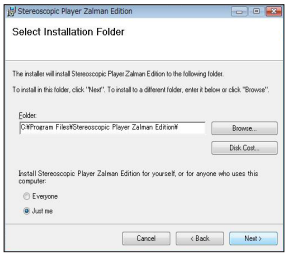
1 Please execute「Stereoscopic Player Zalman Edition R1.3.2—DVD Version.msi」in「Stereoscopic Player(DVD Support)」file in CD-ROM bundled with monitor.
* You can also install stereoscopic player at http://www.zalman.co.kr/ENG/Contact/Download/softWare_read.asp



2 Please click [NEXT] as shown in right image

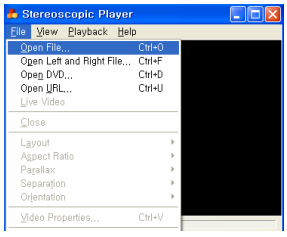


3 Please click [NEXT] as shown in the right image
Please click「Next」and「Close」in next image
* (Please install codec before you watch 3D Contents and there is a install manual of code below)

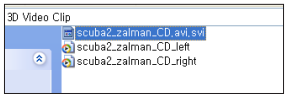


4 「Start」=>「Program」=>「Stereo Player Zalman Edition」

5 Please choose [Open file] in file menu



6 Please choose「Scuba2_zalman_CD.avi.svi」in「Sample 3D Video Clip」in CD-ROM, then you can watch 3D Movie

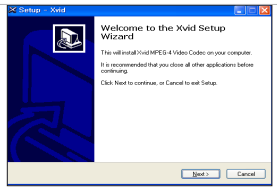


- Full Screen: Double Click on Window Mode
- Reverse Right and Left Image: Click [F7] or「Swap Left/Right」in View menu
- You can watch 3D Movies with both n Vidia and ATI Graphic Board

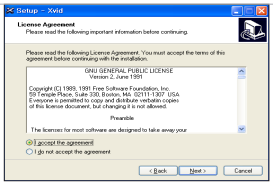
Install Codec

1 Please install XviD Codec in below address
=> http://www.xvidmovies.com/codec/

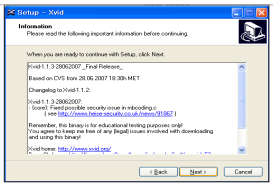
2 Please click [Next] in the right image



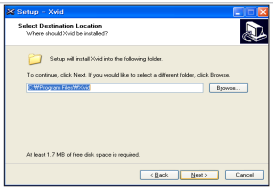
3 Please choose「I accept the agreement」and click [Next]



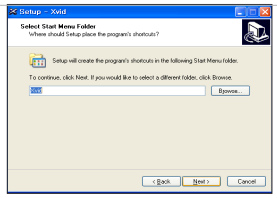
4 Please click [Next] as shown in the right image



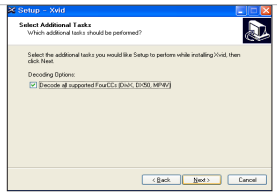
5 Please click [Next] as shown in the right image



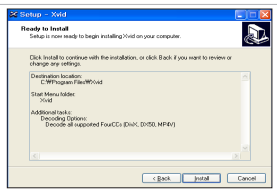
6 Please click [Next] as shown in the right image



7 Please choose「I accept the agreement」and click [Next]



8 Please click OK as shown in the right image and you are done.



More about ZALMAN 3D Monitor

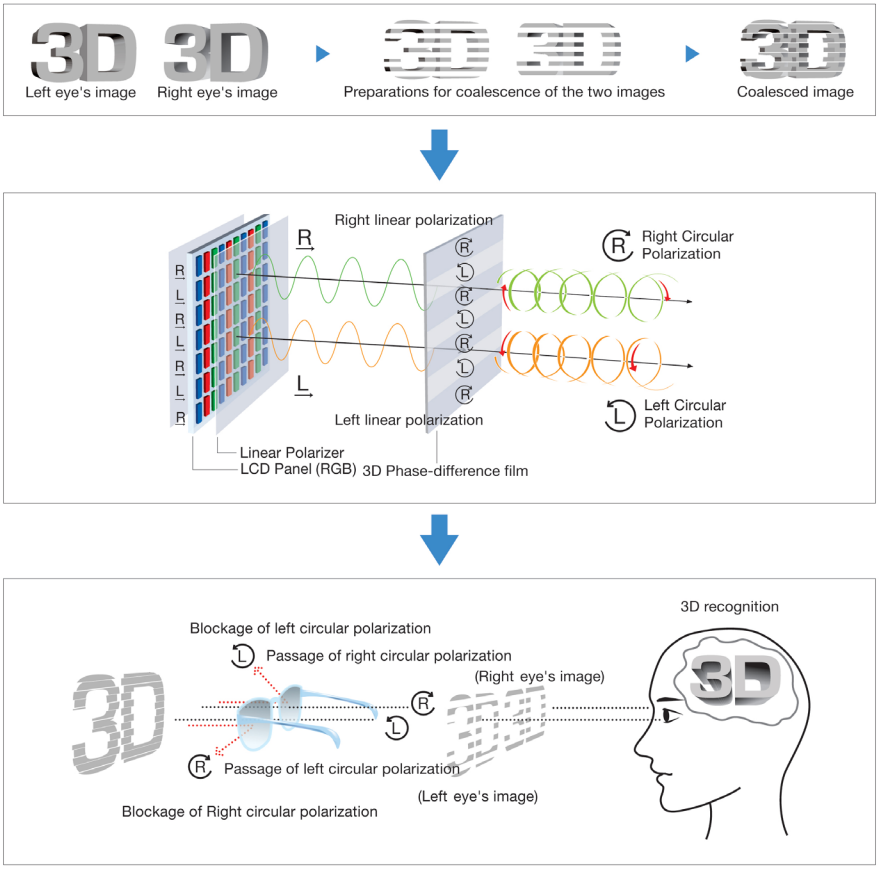
Product Main Features

- Ultra clear 2D/3D Imaging
- No ghost image
- Fast response time and high contrast ratio
- The widest viewing angle
- Elegant design
- Easy 2D/3D convertibility
- Best choice for 3D Media and 3D based applications
- Rotate (90°), tilt, high adjustable

Applications

- Entertainment: Enjoy 3D games, movies and animations realistically in 3D.
- Medical: Visualization in 3D makes it easier to diagnose and to plan surgeries.
- Education: Visual simulation training in military and driving school can prevent actual injuries.
- Research: Analyzing complex structure is easier, reducing development time.
- Design Industry: Evaluating new designs becomes more realistic when you see the model floating in front of you instead of being shown flat on a display.

3D Imaging Technology



ZM-M220W/ZM-M190 Specification

LCD Panel	Screen Size	22"(wide)	19"(4:3)
	Pixel Dimensions	0.282mm(H) x 0.282mm(W)	0.294mm(H) x 0.294mm(W)
	Brightness	300 - 400 cd/m2	300 cd/m2
	Contrast Ratio	1000:1	
	View Angle	2D View Angle: 160°(L/R) / 160°(U/D) 3D View Angle: 90°(L/R) / 10 ~ 12°(U/D)	
	Response Rate	5ms	
Frequency	Horizontal	30 - 80 KHz	52 - 81 KHz
	Vertical	56 - 75 Hz	49 - 76 Hz
Resolution		1680 x 1050	1280 x 1024
Colors		16.7M	
Input Signal	Speakers	Enclosed Input/Output Stereo Speakers 2W x 2	
	Analog	15Pin D-SUB	
	Digital	DVI-D	
Plug & Play		VESA DPMS, DDC 1/2B	
Power	AC / DC	100 - 240V, 50/60Hz (Auto Switch)	100 - 240V, 50/60Hz 12V/5A/60W
	Power-Saving Mode	VESA DPMS STANDARD	
Safety Standards		NRTL, FCC, CE, MIC, VCCI	UL, FCC, CE, CB, MIC, VCCI
Accessories		Manual Power Cable AC Adaptor Audio Cable DVI Cable D-Sub Cable 3D Glasses Driver CD	Manual Power Cable DVI Cable AC Adaptor Audio Cable 3D Glasses (Glasses/Clip Type each*1) Driver CD
Weight		9.8Kg	9.5Kg
Color		Black	

ZALMAN

COOL INNOVATIONS

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e-mail : zalman@zalman.com