

User Manual

Active Stereo

For LCD29, VRvision and ARvision-3D/S



Subject to technical modification

Table of Contents

Table of Contents	2
1 Liability Limitation	3
2 Active Stereo	4
2.1 Firmware Update.....	4
2.2 Working with nVidia GeForce	6
2.3 Working with nVidia Quadro.....	9
3 10	

1 Liability Limitation

In no event shall the author be liable for damages, including any general, special, incidental or consequential damages arising out of the use or inability to use the program, including but not limited to loss of data or losses sustained by you or third parties or a failure of the program to operate with any other programs, even if such holder or other party had previously been advised of the possibility of such damages. This software is provided "as-is". No warranty of any kind is expressed or implied.

By installing the software you accept the end user license agreement and liability limitations.

2 Active Stereo

2.1 Firmware Update

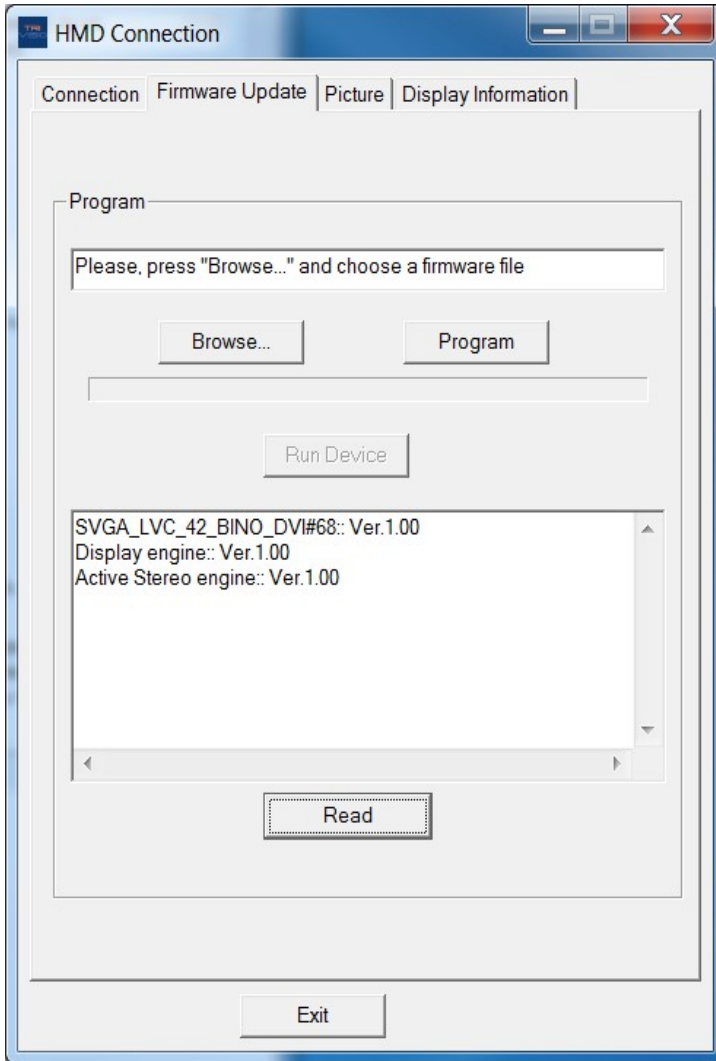
For more details see user manual of HMD and user manual of HMD_connection software.

You can find needed Software, firmware and manuals here:
www.trivisio.com/index.php/support/user-manuals
www.trivisio.com/index.php/support/software

Follow the process in correct order:

1. Update *main* firmware of HMD (Atmel) .
For devices with 42FOV optic use files:
 SVGA_LVC_Bino_DVI_0x0010.eep
 SVGA_LVC_Bino_DVI_0x0010.hex
For devices with 29FOV optic use files:
 SVGA_LVC_Bino_DVI_0x0011.eep
 SVGA_LVC_Bino_DVI_0x0011.hex
2. Update *Display_Engine* firmware (Xilinx) and *Active_Stereo_Engine* (for devices which support active stereo).
For devices with 42FOV optic use files:
 display_engine_0x0010.bin
 active_stereo_engine_0x0010.bin
For devices with 29FOV optic use files:
 display_engine_0x0011.bin
 active_stereo_engine_0x0011.bin

Check version numbers in HMD_connection:



2.2 Working with nVidia GeForce

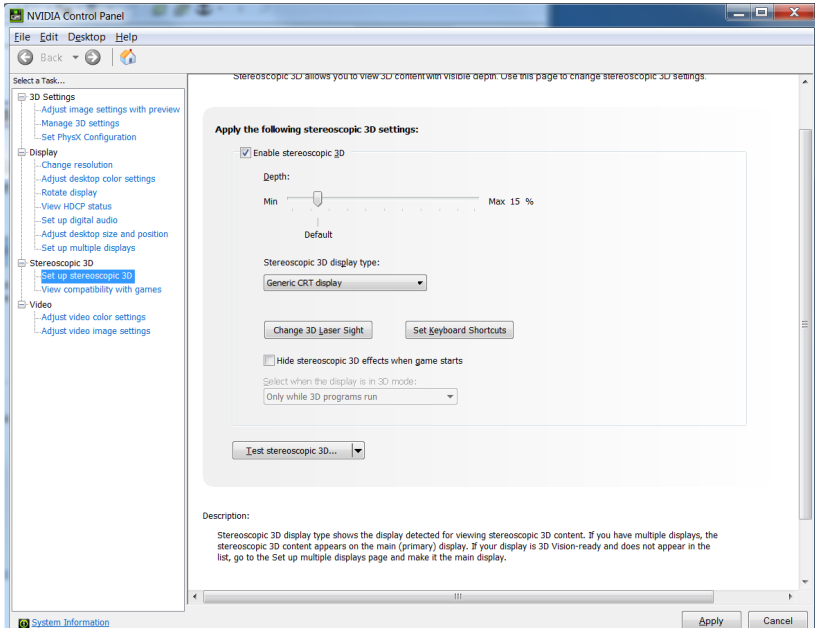
USB IR emitter from 3D VISION WIRELESS GLASSES KIT is needed to activate active stereo driver in frame sequential mode 120hz.

The driver for emitter must be installed prior to connecting the USB IR Emitter.

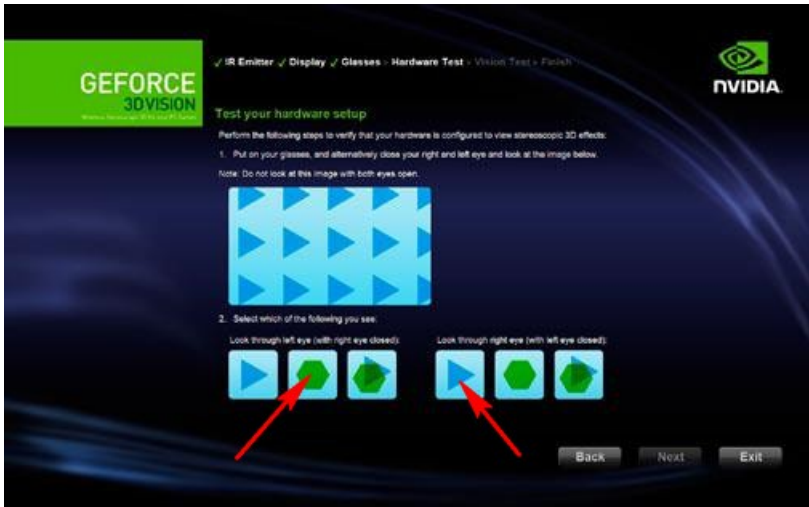
Connect IR Emitter to USB.

Open nVidia Control Panel.

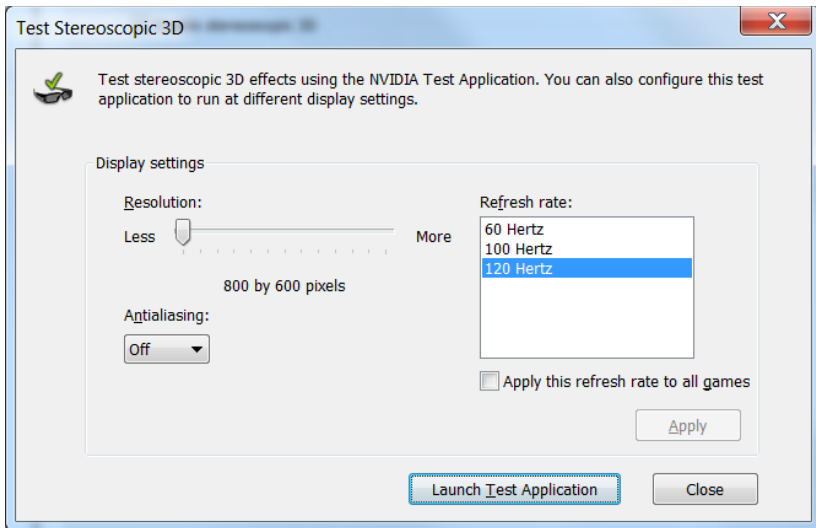
Go to Stereoscopic 3D folder. Select Generic CRT display.



Then check the box Enable stereoscopic 3D, you'll be run through Setup Wizard. On unknown reason Wizard does not run 120Hz active stereo, thus please select following to complete setup.



Once it's done you can run nVidia stereoscopic 3D test.
Select 120Hertz and Launch Test Application.



Note: Be sure to correctly close application you need either click Close or type Esc. This way driver switch from stereo 120Hz to mono 60 Hz. All other incorrect ways will leave 120Hz running in mono mode.

Now you can close nVidia Control Panel and run stereo application you want to work with. It might be nVidia 3D Vision Viewer, browser for HTML5 etc.

Note: At the moment we don't use stereo signal from IR emitter, so there is no lock to stereo sequence. Thus if you run 3D application and observe wrong stereo picture just use Hot Key Ctrl+W to swap to right eye layout.

Soon IR receiver will be implemented in HMD dongle to always keep correct eye layout.

2.3 Working with nVidia Quadro

IR emittre is not needed.

Stereo signal is taken from graphics card 3pin miniDIN stereo connector to HMD dongle 2.5mm jack.

Note: is not implemented yet, will be soon.

2.4
