



Driver Reference Guide

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NVIDIA Quadro FX1 400

Interface: PCIe

Typically used for Viz|Trio or Viz|Weather Clients on HP xw4200 and xw4300.

Configuration History

Driver: 67.22

Viz 2.x: 2.7pl5 – 2.7pl6 hotfix2 / 3.0

- Behaves very well in terms of stability and performance.
- No known issues.

Driver: 71.84

Viz 2.x: 2.8

- Currently not suitable for Viz 3.0 because of render problems. Currently use version 62.77 instead.
- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Known issues regarding shader-plugins like wrong colors or bad pixels.

Driver: **81.67**

Viz 2.x: **2.8 pl1 hotfix4 and later**

Viz 3.x: **3.1.0–3525 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX1 500

Interface: PCIe

Typically used for Viz|Trio or Viz|Weather Clients on HP xw4400.

Configuration History

Driver: 91.36

Viz 2.x: 2.8 pl2 hotfix6 and later

- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Use NVIDIA profile "Vizrt". (NVIDIA configuration dialog)

Driver: **162.62**

Viz 2.x: **2.8 pl4 hf1 and later**

Viz 3.x: **3.1.0–3525 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX1 700

Interface: PCIe

Typically used for Viz|Trio, Viz|CP or Viz|Weather clients on HP xw4600.

Configuration History

Driver: **162.62**

Viz 2.x: **2.8 pl4 hf1 and later**

Viz 3.x: **3.1.0–3525 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX3400

Interface: PCIe

Typically seen on “older” Viz|Engine, Viz|Artist systems based on HP xw8200.

Configuration History

Driver: 67.22

Viz 2.x: 2.7pl5 – 2.7pl6 hotfix2 / 3.0

- Behaves very well in terms of stability and performance.
- No known issues.

Driver: 71.84

Viz 2.x: 2.8

- Currently not suitable for Viz 3.0 because of render problems. Currently use version 62.77 instead.
- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Known issues regarding shader-plugins like wrong colors or bad pixels.

Driver: 81.67

Viz 2.x: 2.8 pl1 hotfix4 and later

Viz 3.x: 3.1.0–3525 and later

Driver: **165.42**

Viz 2.x: **2.8 pl5 hotfix3 and later**

Viz 3.x: **3.2.2–2800 and later**

Please see chapter: “NVIDIA Driver Settings” for configuration details.

NVIDIA Quadro FX4000

Interface: AGPx8

Typically seen on “older” Viz|Engine, Viz|Artist systems based on IBM Z-Pro 6221.

Configuration History

Driver: 67.22

Viz 2.x: 2.7pl5 – 2.7pl6 hotfix2 / 3.0

- Behaves very well in terms of stability and performance.
- No known issues.

Driver: 71.84

Viz 2.x: 2.8

- Currently not suitable for Viz 3.0 because of render problems. Currently use version 62.77 instead.
- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Known issues regarding shader-plugins like wrong colors or bad pixels.

Driver: 81.67

Viz 2.x: 2.8 pl1 hotfix4 and later

- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Use NVIDIA profile “Vizrt”. (NVIDIA configuration dialog)

Driver: 83.62

Viz 2.x: 2.8 pl2 hotfix5 and later

Viz 3.x: 3.1.0–3525 and later

Please see chapter: “NVIDIA Driver Settings” for configuration details.

Driver: **165.42**

Viz 2.x: **2.8 pl5 hotfix3 and later**

Viz 3.x: **3.2.2–2800 and later**

Please see chapter: “NVIDIA Driver Settings” for configuration details.

NVIDIA Quadro FX4000SDI

Interface: AGPx8

Typically seen on “older” HD Viz|Engine, Viz|Artist systems based on IBM Z-Pro 6221.

Configuration History

Driver: 67.22

Viz 2.x: 2.7pl5 – 2.7pl6 hotfix2 / 3.0

- Behaves very well in terms of stability and performance.
- No known issues.

Driver: 71.84

Viz 2.x: 2.8

- Introduced in June 2005.
- Currently not suitable for Viz 3.0 because of render problems. Currently use version 62.77 instead.
- Disable anisotropic filtering, disable Antialiasing in NVIDIA Settings.

Driver: 77.56

Viz 2.x: <=2.8 pl1 hotfix6

- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to OFF. (NVIDIA configuration dialog)
- Use NVIDIA profile “Vizrt”. (NVIDIA configuration dialog)
- Known issues regarding shader-plug-ins like wrong colors or bad pixels.
- If video out appears “greenish” then please refer to **Troubleshooting** at the end of this page.

Driver: 83.62

Introduction: Feb. 2006

Viz 2.x: 2.8 pl1 hotfix6 and later

Viz 3.x: 3.1.0–3525 and later

Driver: **162.62**

Viz 2.x: **2.8 pl5 hotfix3 and later**

Viz 3.x: **3.2.2–2800 and later**

Please see chapter: “NVIDIA Driver Settings” for configuration details.

NVIDIA Quadro FX4500

Interface: PCIe

Typically seen on Viz|Engine, Viz|Artist systems based on HP xw8200, xw8400 or IBM Z-Pro 6223.

Configuration History

Driver: 67.22

Viz 2.x: 2.7pl5 – 2.7pl6 hotfix2 / 3.0

- Behaves very well in terms of stability and performance.
- No known issues.

Driver: 71.84

Viz 2.x: 2.8

- Currently not suitable for Viz 3.0 because of render problems. Currently use version 62.77 instead.
- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Known issues regarding shader-plugins like wrong colors or bad pixels.

Driver: 81.67

Viz 2.x: 2.8 pl1 hotfix4 and later

- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Use NVIDIA profile "Vizrt". (NVIDIA configuration dialog)

Driver: 83.62

Viz 2.x: 2.8 pl2 hotfix5 and later

Viz 3.x: 3.1.0–3525 and later

Driver: **165.42**

Viz 2.x: **2.8 pl5 hotfix3 and later**

Viz 3.x: **3.2.2–2800 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX4500SDI

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on HP xw8200, xw8400 or IBM Z-Pro 6223.

Configuration History

Driver: 67.22

Viz 2.x: 2.7pl5 – 2.7pl6 hotfix2 / 3.0

- Behaves very well in terms of stability and performance.
- No known issues.

Driver: 71.84

Viz 2.x: 2.8

- Introduced in June 2005.
- Currently not suitable for Viz 3.0 because of render problems. Currently use version 62.77 instead.
- Disable anisotropic filtering, disable Antialiasing in NVIDIA Settings.

Driver: 77.56

Viz 2.x: <=2.8 pl1 hotfix6

- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Use NVIDIA profile "Vizrt". (NVIDIA configuration dialog)
- Known issues regarding shader-plugins like wrong colors or bad pixels.
- If video out appears "greenish" then please refer to **Troubleshooting** at the end of this page.

Driver: 83.62

Viz 2.x: 2.8 pl2 hotfix5 and later

Viz 3.x: 3.1.0–3525 and later

Driver: **162.62**

Viz 2.x: **2.8 pl5 hotfix3 and later**

Viz 3.x: **3.2.2–2800 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX5500

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on HP xw8400 or IBM Z-Pro 9228.

Configuration History

Driver: 91.36

Viz 2.x: 2.8 pl3 hotfix2 – 2.8 pl3 hotfix6

- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Use NVIDIA profile “Vizrt”. (NVIDIA configuration dialog)

Driver: 162.62

Viz 2.x: 2.8 pl4 and later

Viz 3.x: 3.1.0–3525 and later

Driver: **165.42**

Viz 2.x: **2.8 pl5 hotfix3 and later**

Viz 3.x: **3.2.2–2800 and later**

Please see chapter: “NVIDIA Driver Settings” for configuration details.

NVIDIA Quadro FX5500 SDI

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on xw8400 or IBM Z-Pro 9228.

Configuration History

Driver: 91.36

Viz 2.x: 2.8 pl3 hotfix2 and later

Viz 3.x: 3.1.0-3525 and later

- Disable anisotropic filtering. (NVIDIA configuration dialog)
- Set Antialiasing to x4. (NVIDIA configuration dialog)
- Use NVIDIA profile "Vizrt". (NVIDIA configuration dialog)

Driver: 162.62

Viz 2.x: 2.8 pl4 and later

Viz 3.x: 3.1.0-3525 and later

Please see chapter: "NVIDIA Driver Settings" for configuration details.

Driver: **165.42**

Viz 2.x: **2.8 pl4 and later**

Viz 3.x: **3.1.0-3525 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX4600

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on xw8400 or IBM Z-Pro 9228.

Configuration History

Driver: 97.78

Viz 2.x: 2.8 pl3 hotfix2 – 2.8 pl3 hotfix6

- Tests are on a very early level.
- Tests have been performed on a special pre-release version of this board for R&D.
- Antialiasing in Viz render-window may be slightly worse than used from older drivers, not compatible with this hardware. Good chance to be resolved. Video-Out doesn't seem to be influenced.
- New NVIDIA control panel accessible from Windows control panel.
- During installation the driver will suggest to copy itself to folder **91.85**. This is a bug in the NVIDIA driver installer. After installation the device will correctly recognize the driver with version 97.78 so it may be a good idea to rename the folder during installation in order to save yourself from possible confusion at a later point in time.

Driver: 162.62

Viz 2.x: 2.8 pl4 and later

Viz 3.x: 3.1.0–3525 and later

Driver: **165.42**

Viz 2.x: **2.8 pl5 hotfix3 and later**

Viz 3.x: **3.2.2–2800 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX4600 SDI

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on HP xw8400 and wx8600.

Configuration History

Driver: **165.42**

Viz 2.x: **2.8 pl5**

Viz 3.x: **3.2.2 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX5600

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on HP xw8400 and wx8600.

Configuration History

Driver: 162.62
Viz 2.x: 2.8 pl4 and later
Viz 3.x: 3.1.0–3525 and later

Driver: **165.42**
Viz 2.x: **2.8 pl5 hotfix3 and later**
Viz 3.x: **3.2.2–2800 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX5600 SDI

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on HP xw8400 and wx8600.

Configuration History

Driver: **165.42**
Viz 2.x: **2.8 pl4 and later**
Viz 3.x: **3.2.2 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

NVIDIA Quadro FX3700

Interface: PCIe

Typically seen on HD Viz|Engine, Viz|Artist systems based on HP wx8600.

Configuration History

Driver: **169.96**
Viz 2.x: **2.8 pl5**
Viz 3.x: **3.2.2 and later**

Please see chapter: "NVIDIA Driver Settings" for configuration details.

Pinnacle Targa 3200

Vizrt's standard board for SD Viz|Engine / Viz|Artist systems until 2007. Typically seen on IBM Z-Pro 6221, IBM Z-Pro 6223 and HP xw8200.

Configuration History

Driver: CODI v2.2 RC4

Revision: 3212, 3213

Driver: CODI v2.42

Revision: 3212, 3213, 3214

- Installation of CODI Compatibility Patch is required.
-

Revision: **3212, 3214**

Driver: **CODI v2.41rc13**

- Installation of CODI Compatibility Patch for Rev. **3214** is no more required.
-

Revision: **3213**

Driver: **CODI v2.42**

- **WARNING:** Rev. **3213** crashes the machine when used with **2.41rc13**.

Digital Voodoo "Red Devil" V3 alias IO/2020

Vizrt's standard board for SD virtual sets and Viz|Arena. Typically seen on IBM Z-Pro 6221, IBM Z-Pro 6223, HP xw8200.

Configuration History

Driver: **VizrtVideo 2.3**

Revision: **V3**

Digital Voodoo “DeepBlue LT”

Vizrt's standard board for SD Trio|NV systems. Typically seen on HP xw4200, xw4300 and xw4400.

Configuration History

Driver: **Bluefish444 v3.1**
Viz 2.x: **2.8 pl2 hotfix5 and later**
Viz 3.x: **3.1.0–3525 and later**

- **WARNING:** Only v3.1 is guaranteed to support an adequate Ringbuffer-size. Any other driver will cut down or completely disable ringbuffer support.

Digital Voodoo “Iridium SD”

Vizrt's standard board for SD Trio|NV systems. Direct successor of “DeepBlue-LT”, typically seen on HP xw4600.

Configuration History

Driver: **Bluefish444 v3.1**
Viz 2.x: **2.8 pl2 hotfix5 and later**
Viz 3.x: **3.1.0–3525 and later**

- **WARNING:** Only v3.1 is guaranteed to support an adequate Ringbuffer-size. Any other driver will cut down or completely disable ringbuffer support.

Bluefish444 – Sophie AV-Pro Express (SD-Lite Pro Express)

Vizrt's standard board for SD Trio|NV systems. Direct successor of “Digital Voodoo Iridium-SD”, typically seen on HP xw4600.

Configuration History

Driver: **Bluefish444 v5.7.6**
Viz 2.x: **2.8 pl5 hotfix3 (manual installation of video version required) and later**
Viz 3.x: **3.2.2–3079** and later

Digital Voodoo “D1 Desktop”

“Old” SD board. Rarely used but sometimes seen on IBM Z-Pro 6221, IBM Z-Pro 6223 and HP xw8200.

Configuration History

Driver: **VizrtVideo 2.3**

Revision: **V1, V2**

- **WARNING:** Older board revisions (**V1**) are incompatible with recent systems like HP xw8200, xw8400 IBM Z-Pro 6223. Symptoms are BSOD, machine freeze at Viz startup or corrupted Live-Video in Viz. You will anyway notice that something is wrong ...

Matrox Xmio

Vizrt's standard board for HD- and SD- systems. Typically seen on HP xw8200, xw8400.

Configuration History

Driver: DSX.utils 2.5.0-615 *Introduction:* early 2006

Viz 2.x: 2.8 pl3 and later

- **WARNING:** Matrox MvFlexReader.dll crashes when playing certain clips from disk in Viz. This happens if the Matrox-DLL encounters unknown header information in the *.AVI clip. Replace the DLL installed by the setup program with the one located at the Vizrt FTP Server at: \\customer_DRIVERS\Matrox\Xmio\250-615

Driver: DSX.utils 2.5.0-667 *Introduction:* Oct. 2006

Viz 2.x: 2.8 pl3 and later

- **DEPRECATED:** Coming hardware revisions of the Xmio (Q1 2007) will be equipped with different active- and passive elements. Capabilities and workflow will stay the same but the transition requires a driver/firmware upgrade.

Driver: DSX.utils 2.5.0-673 *Introduction:* Feb. 2007

Viz 2.x: 2.8 pl3 – 2.8 pl3 hotfix7

Viz 3.x: 3.1.0-3525 and later

Driver: DSX.utils 4.0.0-132 (sp1) *Introduction:* Aug. 2007

Viz 2.x: 2.8pl4 – 2.8pl4hf1

Viz 3.x: 3.1.0-3525 and later

Driver: **DSX.utils 5.0.3-166** *Introduction:* **April 2008**

Viz 2.x: **2.8pl5 and later**

Viz 3.x: **3.1.0-3525 and later**

Driver: **DSX.utils 5.0.3-171** *Introduction:* **Feb. 2009**

Viz 3.x: **3.2.2-4068 and later**

Matrox Xmio2

Vizrt's standard board for HD- and SD- systems. Direct successor of Matrox Xmio, typically seen on HP xw8400 and 8600.

Configuration History

<i>Driver:</i>	DSX.utils 5.0.3-166	<i>Introduction:</i> April 2008
<i>Viz 2.x:</i>	2.8p15 and later	
<i>Viz 3.x:</i>	3.1.0-3525 and later	

<i>Driver:</i>	DSX.utils 5.0.3-171	<i>Introduction:</i> Feb. 2009
<i>Viz 3.x:</i>	3.2.2-4068 and later	

DVS Centaurus2

Vizrt's standard board for HD- and SD- systems used in Virtual Set's. Direct successor of digital Voodoo "Red Devil", typically seen on HP 8600 in VS's.

Configuration History

<i>Driver:</i>	3.2.1	<i>Introduction:</i> July 2008
<i>Viz 2.x:</i>	n/a	
<i>Viz 3.x:</i>	3.2.2 and later	

NVIDIA Driver Settings

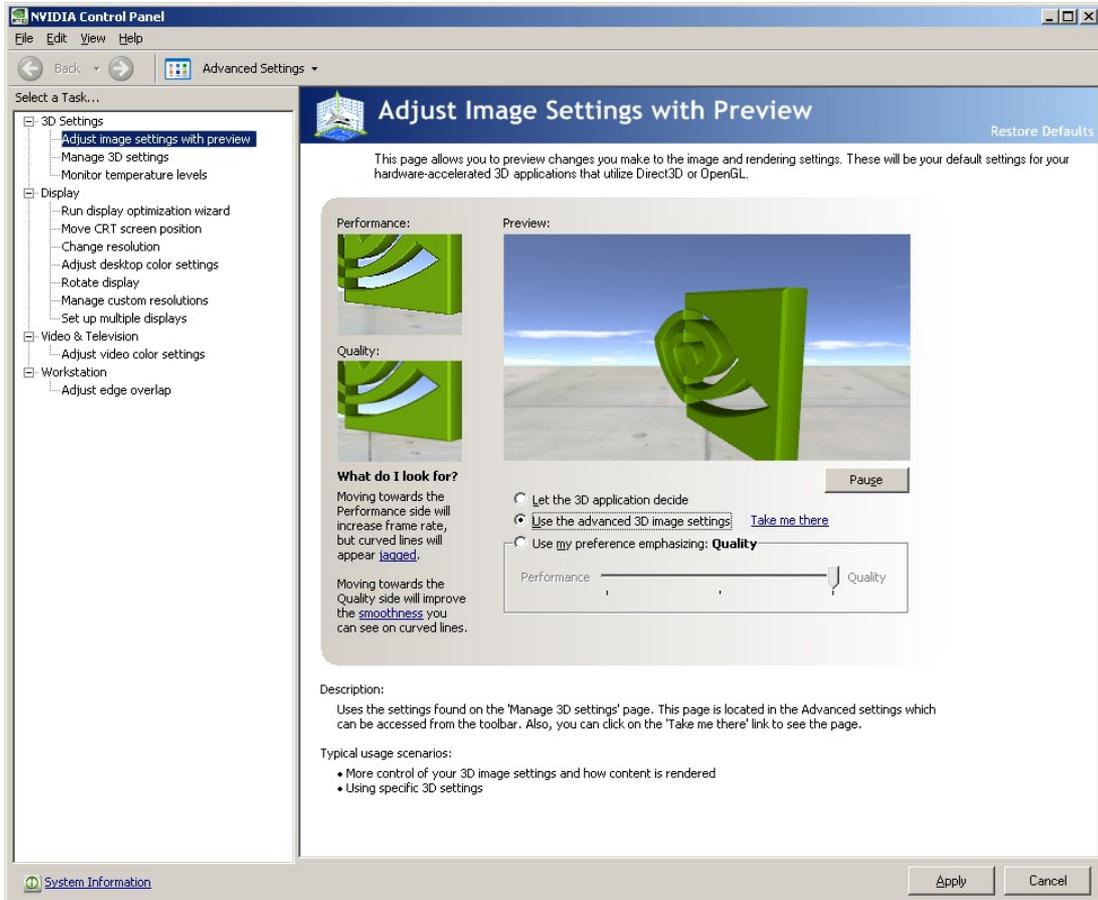
Right click to your desktop and select “NVIDIA Control Panel”.



In the upcoming dialog select “Advanced Settings”.



Select Use the Advanced 3D image settings and Take me there.



Miscellaneous – How to deal with the new NVIDIA control panel

Under **Global Settings** select global preset: **Base profile** and set:

Anisotropic filtering		
for Viz 2.x	=	OFF
for Viz 3.x	=	Application controlled.
Antialiasing–Gamma correction	=	OFF
Antialiasing–Mode	=	Override any application settings
Antialiasing–Setting	=	4x (4xMS)
Antialiasing–Transparancy	=	OFF
Vertical Sync		
for Video versions of Viz	=	FORCE OFF
for Standard–PC Viz	=	Application controlled

IMPORTANT: Don't use preset: **Vizrt** anymore but instead stay with above global driver settings.

Document History

Rev.2.2: change: NVIDIA driver settings

Rev.2.3: add: FX1700, FX4600, FX5600

Rev.2.4: add: FX4600SDI, FX5600SDI, Xmio2, Centaurus2, IridiumSD
update: Xmio

Rev.2.5: add: Antialiasing flags for NVIDIA configuration

Rev.2.6: change: FX5500SDI

Rev.2.7: change: Removed out-dated references to old nvidia driver-configuration using profile "Vizrt"

Rev.2.8: fix: Xmio(2), DSX_Utils 5.0.3-166 are required since Viz 2.8pl5 and not (as previously stated) since Viz 2.8pl4hf1

Rev.2.9: update: FX1400, 1500, 1700, 3400, 4000(SDI), 4500(SDI), 5500(SDI), 4600(SDI), 5600(SDI), Xmio, Xmio2
remove: OS indicator
16-Feb-09, fix: FX1400

R.2.10: fix: FX4000(SDI), 4500(SDI), 5500(SDI) not to be driven using 165.42 - as stated in Rev.2.9 - but 162.62 instead

R.2.11: fix: FX1700 not to be driven using 165.42 - as stated in Rev.2.9-Rev.2.10 - but 162.62 instead

new: Bluefish444 SD-Lite Pro Express

R.2.12: update: FX5500(SDI) not to be driven using 162.62 but 165.42 instead; Vsync settings changed for StdPC