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› [XFX AMD Radeon HD 6950 Graphics Card User Manual](#)

XFX HD695XCNFC

XFX AMD Radeon HD 6950 Graphics Card User Manual

Model: HD695XCNFC

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your XFX AMD Radeon HD 6950 Graphics Card. This series of Radeon HD graphics cards is AMD's 3-D gaming and multi-media solution for desktop computers, plus the next level of HDMI 1.4a and DisplayPort 1.2 solutions for Stereoscopic 3-D and 2GB of GDDR5 memory. Please read this manual thoroughly before use to ensure optimal performance and longevity of your product.

2. SAFETY INFORMATION

Always handle the graphics card by its edges to avoid touching sensitive components. Ensure your computer is powered off and unplugged before installation. Static electricity can damage electronic components; consider using an anti-static wrist strap.

- Disconnect power before installation or removal.
- Avoid exposing the card to moisture or extreme temperatures.
- Do not attempt to open or modify the card, as this may void the warranty.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- XFX AMD Radeon HD 6950 Graphics Card (Model: HD695XCNFC)
- Driver CD (if included)
- Quick Installation Guide (if included)
- Power adapters (if included, e.g., 6-pin PCIe power connectors)



Image: Top view of the XFX AMD Radeon HD 6950 Graphics Card, showing the cooling fan and heatsink assembly.

4. SETUP AND INSTALLATION

4.1 System Requirements

- PCI Express x16 slot
- Minimum 500W power supply with two 6-pin PCI-E power connectors (600W-800W recommended for stability)
- Compatible operating system (Windows 7/8/10, Linux)
- 8GB DDR3 RAM recommended

4.2 Hardware Installation

1. **Power Off:** Shut down your computer completely and unplug the power cord from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
4. **Remove Slot Cover:** Remove the metal slot cover from the back of your computer case corresponding to the chosen PCIe slot.
5. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip clicks into place.
6. **Secure Card:** Secure the graphics card to the case with the screw or latch mechanism.
7. **Connect Power:** Connect the required 6-pin PCI-E power connectors from your power supply to the graphics card. This model typically requires two 6-pin connectors.
8. **Close Case:** Replace the side panel of your computer case.
9. **Connect Display:** Connect your monitor to one of the display outputs on the graphics card (MiniDP, HDMI, DVI).



Image: Front view of the XFX AMD Radeon HD 6950 Graphics Card, highlighting the cooling fan and the XFX branding.

4.3 Driver Installation

1. **Power On:** Plug in the power cord and turn on your computer.
2. **Initial Boot:** The operating system may install generic drivers.
3. **Install Drivers:**
 - Insert the provided driver CD into your optical drive and follow the on-screen instructions.
 - Alternatively, for the latest drivers, visit the official AMD website (www.amd.com/en/support) and download the drivers for the Radeon HD 6950 series.
4. **Restart:** Restart your computer after the driver installation is complete.

5. OPERATING THE GRAPHICS CARD

Once installed and drivers are updated, your XFX AMD Radeon HD 6950 Graphics Card will automatically handle graphics processing for your system. You can configure various display settings and performance options through the AMD Radeon Software (formerly Catalyst Control Center).

5.1 Display Configuration

- **Single Display:** Connect your primary monitor to any available port (DVI, HDMI, MiniDP).
- **Multi-Display (AMD Eyefinity):** The card supports AMD Eyefinity technology for multiple display setups. To utilize more than two displays simultaneously, at least one display must be connected via DisplayPort. Active DisplayPort adapters may be required for non-DisplayPort monitors.
- **Port Types:**
 - Dual DVI-I ports
 - HDMI 1.4a port
 - Dual Mini DisplayPort 1.2 ports



Image: Rear view of the XFX AMD Radeon HD 6950 Graphics Card, showing the various display output ports including DVI, HDMI, and Mini DisplayPort.

5.2 Software Configuration (AMD Radeon Software)

The AMD Radeon Software provides a user interface to manage your graphics card settings. This includes:

- **Display Settings:** Adjust resolution, refresh rate, color depth, and monitor arrangement.
- **Gaming Settings:** Optimize game performance, enable features like Anti-Aliasing and Anisotropic Filtering.
- **Video Playback:** Enhance video quality.
- **Performance Monitoring:** Monitor GPU temperature, clock speeds, and fan speed.
- **Overclocking (Advanced Users):** Adjust GPU and memory clock speeds for increased performance, with caution.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the graphics card's heatsink and fan using compressed air. Ensure the fan is held stationary while blowing air to prevent damage.
- **Driver Updates:** Regularly check for and install the latest graphics drivers from the official AMD website. Driver updates often include performance improvements and bug fixes.
- **Temperature Monitoring:** Use monitoring software (e.g., AMD Radeon Software, GPU-Z) to keep an eye on GPU temperatures, especially during heavy load. Ensure adequate airflow within your PC case.
- **Physical Inspection:** Occasionally inspect the card for any loose connections or visible damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display output	Card not seated correctly, power cables not connected, monitor input incorrect, faulty cable.	Reseat the card, ensure all power cables are connected, check monitor input source, try a different cable.

Problem	Possible Cause	Solution
System crashes or freezes during gaming	Overheating, unstable drivers, insufficient power supply.	Check GPU temperatures, update drivers, ensure power supply meets requirements.
Fan is excessively loud	Dust buildup, high temperatures, fan bearing issue.	Clean the fan and heatsink, ensure good case airflow, monitor temperatures.
Poor performance in games	Outdated drivers, incorrect game settings, background applications.	Update drivers, adjust game graphics settings, close unnecessary background programs.

8. SPECIFICATIONS

Feature	Detail
Model	HD695XCNFC
Graphics Processor	AMD Radeon HD 6950
Memory	2GB GDDR5
GPU Clock Speed	800MHz (Base), 880MHz (Boost, if applicable)
Video Output Interface	Dual MiniDP, HDMI, Dual DVI
PCI-E Standard	PCI-E 2.1 x16
Dimensions	10.2 x 1.5 x 4.38 inches
Item Weight	2.1 pounds
DirectX Support	DirectX 11
Crossfire Support	Yes
Eyefinity Support	Yes

9. WARRANTY AND SUPPORT

XFX products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official XFX website.

For technical support, driver downloads, and frequently asked questions, please visit the XFX support page or contact their customer service directly.

- **XFX Official Website:** www.xfxforce.com
- **AMD Support:** www.amd.com/en/support

Legal Disclaimer: Card works great just tested!(Note: This disclaimer was found in the product information and is included for informational completeness, though it is unusual for a manual.)

