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## XFX HD-585X-ZAFC

# XFX ATI Radeon HD 5850 Graphics Card User Manual

Model: HD-585X-ZAFC

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your XFX ATI Radeon HD 5850 graphics card. Designed for high-performance computing, this card offers advanced graphical processing capabilities and supports modern display technologies.

Key features include:

- Unrivaled Visuals with DirectX 11 Support
- ATI Eyefinity for an Immersive, Panoramic View
- Crossfire Support for Multiple GPU Power
- Energy Efficient and Quiet Operation
- High-Definition Video and Audio Capabilities

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

- XFX ATI Radeon HD 5850 PCI-Express Video Card
- DVI to VGA adapter
- ATI CrossFireX Bridge Interconnect
- User's Manual (this document)

## 3. SETUP AND INSTALLATION

### 3.1 Hardware Installation

1. **Power Off and Disconnect:** Before beginning installation, ensure your computer is completely powered off and disconnected from the power outlet.
2. **Open Computer Case:** Remove the side panel of your computer case to access the motherboard.
3. **Locate PCI-Express Slot:** Identify an available PCI-Express x16 slot on your motherboard.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCI-Express slot and press down firmly until it is securely seated. Ensure the retention clip (if present) locks into place.
5. **Connect Power:** The Radeon HD 5850 requires two 6-pin PCI-Express power connectors. Connect

these from your power supply to the corresponding ports on the back of the graphics card. Note that these connectors are typically located on the rear edge of the card, requiring sufficient clearance within your case.

6. **Secure Card:** Secure the graphics card to the computer case with a screw or retention mechanism.
7. **Close Case:** Replace the computer case side panel.
8. **Connect Display:** Connect your monitor(s) to the appropriate output ports (DVI, HDMI, DisplayPort) on the graphics card.



An angled view of the XFX ATI Radeon HD 5850 graphics card, featuring a black shroud with red accents and a central red cooling fan. The card has a PCI-Express connector and various output ports visible, including DVI, HDMI, and DisplayPort.

### 3.2 Driver Installation

1. **Power On:** Reconnect your computer to power and turn it on.
2. **Install Drivers:** Insert the driver CD included with your graphics card or download the latest drivers from the official XFX or AMD website. Follow the on-screen instructions to complete the driver installation.
3. **Restart System:** Restart your computer after driver installation is complete.
4. **Operating System Compatibility:** Certified drivers are available for Windows 7, Windows Vista, and Windows XP.

## 4. OPERATING YOUR GRAPHICS CARD

### 4.1 DirectX 11 Support

The Radeon HD 5850 fully supports DirectX 11, enabling advanced graphical features such as tessellation for enhanced realism and detail in compatible games and applications. Ensure your operating system and

games are updated to utilize DX11 capabilities.

## 4.2 ATI Eyefinity Multi-Monitor Technology

ATI Eyefinity allows you to expand your display across up to three monitors, creating a panoramic viewing experience. This feature is particularly beneficial for gaming, providing expanded peripheral vision, and for productivity, offering increased screen real estate. Each monitor maintains its native resolution for optimal clarity.

## 4.3 High-Definition Video and Audio

The card is equipped with ATI Avivo technology, which accelerates HD image processing for smooth, flawless video playback and faster decoding. It supports full HDMI connectivity and the latest HD color profiles, making it suitable for Blu-ray movie playback on your computer.

An integrated audio controller supports HD audio profiles including AC-3, AAC, Dolby TrueHD, and DTS-HD, delivering up to 7.1 channel surround audio for an immersive sound experience.

## 4.4 CrossFire Multi-GPU Configuration

For greatly increased graphical performance, the ATI Radeon HD 5850 supports CrossFire technology. This allows you to link two compatible graphics cards together to boost GPU output, reducing frame-rate drops and improving overall gaming performance. An ATI CrossFireX Bridge Interconnect is included for this purpose.

# 5. MAINTENANCE

The Radeon HD 5850 utilizes ATI PowerPlay technology, which dynamically adjusts power consumption based on usage. This contributes to energy efficiency and helps manage heat dispersion, ensuring stable and quiet operation. Regular maintenance involves:

- **Dust Removal:** Periodically clean dust from the graphics card's fan and heatsink using compressed air to maintain optimal cooling performance. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your graphics drivers updated by regularly checking the official XFX or AMD website for the latest versions.

# 6. TROUBLESHOOTING

If you encounter issues with your graphics card, consider the following troubleshooting steps:

- **No Display or Boot Issues:**
  - Ensure the graphics card is fully seated in the PCI-Express slot.
  - Verify that both 6-pin power connectors are securely attached to the card.
  - Check that your monitor cable is correctly connected to the graphics card.
  - If your motherboard BIOS hangs at "VGA BIOS", try reseating the card or testing it in another PCI-Express slot if available.
- **Graphical Artifacts or Crashes (e.g., "Vertical Lines of Death"):**
  - Ensure your drivers are up to date. Try a clean installation of the latest drivers.
  - Monitor the card's temperature during operation. Excessive heat can cause instability. Ensure proper case airflow and clean the card's fan/heatsink.
  - If overclocking, revert to default clock speeds to rule out instability.
  - Test the card in another computer if possible to determine if the issue is card-specific or system-

related.

- **Random Shutdowns During Gaming (especially with HDTV):**
  - Ensure your power supply unit (PSU) meets the minimum wattage requirements for your system, including the graphics card.
  - Check for driver updates specific to display output issues.
  - Test with a different display cable or monitor if possible.
- **Performance Issues (Lower than Expected):**
  - Verify that the latest graphics drivers are installed.
  - Ensure your system meets the recommended specifications for the applications or games you are running.
  - Check for background applications consuming system resources.

## 7. SPECIFICATIONS

Feature	Detail
Brand	XFX
Model Number	HD-585X-ZAFC
Graphics Coprocessor	AMD Radeon
Graphics Processor Manufacturer	AMD
Graphics RAM Size	1 GB DDR5
Video Output Interface	DVI, DisplayPort, HDMI, VGA (via adapter)
Product Dimensions	9.49 x 4.33 x 1.5 inches
Item Weight	2.9 pounds
DirectX Support	DirectX 11
Multi-GPU Support	ATI CrossFire
Multi-Display Support	ATI Eyefinity (up to 3 monitors)

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

The XFX ATI Radeon HD 5850 PCI-Express Video Card is backed by a three-year warranty. Please retain your proof of purchase for warranty claims.

### 8.2 Technical Support

For technical assistance, driver downloads, or further product information, please visit the official XFX website or their dedicated support portal. You can also find additional resources and contact information via the [XFX Store on Amazon](#).

