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EVGA 08G-P4-6173-KR

EVGA GeForce GTX 1070 SC GAMING ACX 3.0 Graphics Card

User Manual

Model: 08G-P4-6173-KR

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your EVGA GeForce GTX 1070 SC GAMING ACX 3.0 Graphics Card. Please read this manual thoroughly before installing and operating your new graphics card to ensure optimal performance and longevity.
The EVGA GeForce GTX 1070 SC GAMING ACX 3.0 features NVIDIA's Pascal architecture, delivering advanced gaming performance and immersive VR experiences. It incorporates EVGA's ACX 3.0 cooling technology for efficient heat dissipation and quiet operation.

2. What's in the Box

Carefully unpack your EVGA GeForce GTX 1070 SC GAMING ACX 3.0 Graphics Card and verify that all items are present:

- EVGA GTX 1070 SC GAMING ACX 3.0 Graphics Card
- Driver CD
- Installation Guide
- 6Pin(2) to 8 Pin Adapter
- EVGA Gaming Poster
- Powered by EVGA Case Badge
- EVGA Enthusiast Built Sticker



Image: EVGA GeForce GTX 1070 SC GAMING ACX 3.0 Graphics Card and its retail packaging.



Image: Included accessories and documentation with the graphics card.

3. Setup and Installation

3.1. System Requirements

- PCI Express-compliant motherboard with one dual-width x16 graphics slot.
- Minimum 500W or greater power supply with one 8-pin PCI Express power connector.
- Microsoft Windows 10, Windows 8.1, Windows 8, Windows 7, or Linux operating system.
- Minimum 4GB system memory (8GB recommended).
- Internet connection for driver download and software updates.

3.2. Hardware Installation

1. **Prepare your system:** Power off your computer and unplug the power cord. Open your computer case.
2. **Locate a PCI Express x16 slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any

expansion slot covers that may be blocking the slot.

3. **Install the graphics card:** Carefully align the graphics card with the PCI Express x16 slot. Press down firmly until the card is securely seated. Secure the card with the retaining clip or screw from your case.
4. **Connect power:** Connect the 8-pin PCI Express power connector from your power supply to the corresponding port on the graphics card. If your power supply only has 6-pin connectors, use the included 6Pin(2) to 8 Pin Adapter. Ensure a secure connection.
5. **Close the case:** Once the card is installed and powered, close your computer case and reconnect all cables.



Image: The EVGA GeForce GTX 1070 SC GAMING ACX 3.0 Graphics Card, ready for installation.



Image: Rear I/O ports for display connectivity.

3.3. Driver Installation

1. **Power on your computer:** After hardware installation, power on your computer.
2. **Install drivers:** Insert the included Driver CD into your optical drive and follow the on-screen instructions. Alternatively, for the latest drivers, visit the official EVGA website (www.evga.com/drivers/) or NVIDIA's website (www.nvidia.com/drivers) and download the appropriate drivers for your operating system and graphics card model.
3. **Restart your computer:** After the driver installation is complete, restart your computer for the changes to take effect.

4. Operating Your Graphics Card

Once installed and drivers are updated, your EVGA GeForce GTX 1070 SC GAMING ACX 3.0 Graphics Card is ready for use. It will automatically handle graphics processing for your applications and games.

4.1. EVGA Precision XOC Software

For advanced control and monitoring of your graphics card, EVGA provides the Precision XOC software. This utility allows you to:

- Monitor GPU temperature, clock speeds, and fan speeds.
- Adjust fan curves for customized cooling performance.
- Overclock your GPU for enhanced performance (use with caution).
- Utilize DX12 OSD (On-Screen Display) support to view system stats while gaming.

Download the latest version of EVGA Precision XOC from the official EVGA website.

4.2. Display Connectivity

The graphics card supports multiple display outputs, including DisplayPort, HDMI, and DVI. Connect your monitor(s) to the appropriate ports on the card. Ensure your display cables are securely connected for optimal signal quality.

5. Maintenance

Proper maintenance can extend the lifespan and maintain the performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the graphics card's fans and heatsink fins using compressed air. Ensure the system is powered off and unplugged before cleaning. Hold the fan blades gently to prevent them from spinning rapidly during cleaning.
- **Thermal Pads:** Some early versions of this card may benefit from additional thermal pads for VRM cooling. EVGA has provided a free thermal pad kit for users who wish to install them. Please visit the EVGA support website for more information and instructions on how to obtain and install these pads if you deem it necessary.
- **Driver Updates:** Regularly check for and install the latest graphics drivers from EVGA or NVIDIA. Driver updates often include performance improvements, bug fixes, and compatibility enhancements.

6. Troubleshooting

If you encounter issues with your graphics card, refer to the following common troubleshooting steps:

- **No Display Output:**
  - Ensure the monitor cable is securely connected to both the graphics card and the monitor.
  - Verify that the 8-pin PCI Express power connector is fully seated in the graphics card.
  - Check if your monitor is set to the correct input source.
  - Try connecting to a different display output port on the graphics card.
- **Poor Performance in Games/Applications:**
  - Ensure you have the latest graphics drivers installed.
  - Check your system's CPU and RAM usage to identify potential bottlenecks.
  - Monitor GPU temperature using EVGA Precision XOC to ensure it's not overheating.
  - Verify that your power supply meets the minimum wattage requirement.
- **Fan Noise/Overheating:**
  - Clean dust from the fans and heatsink.
  - Ensure adequate airflow within your computer case.
  - Adjust fan curves using EVGA Precision XOC for better cooling.

For further assistance, please visit the EVGA support website or contact their customer service.

7. Specifications

Feature	Detail
Model Number	08G-P4-6173-KR
Graphics Coprocessor	NVIDIA GeForce GTX 1070
Memory Size	8 GB GDDR5

Feature	Detail
Real Base Clock	1594 MHz
Real Boost Clock	1784 MHz
Max Screen Resolution	7680 x 4320
Video Output Interface	HDMI, DisplayPort, DVI
Item Weight	2.2 pounds (approx. 1 kg)
Product Dimensions (LxWxH)	10.5 x 1.5 x 4.38 inches (approx. 26.7 x 3.8 x 11.1 cm)

8. Warranty and Support

EVGA products are backed by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty information included with your product or visit the official EVGA website.
For technical support, driver downloads, FAQs, and product registration, please visit the EVGA support portal:

EVGA Support Website

You can also find a digital version of the user manual here:EVGA GeForce GTX 1070 User Manual (PDF)

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