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› MSI GE70 2OE-017US 17.3-Inch Laptop User Manual

msi GE70 2OE-017US

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Model: GE70 2OE-017US

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your MSI GE70 2OE-017US 17.3-inch laptop. Please read this guide thoroughly before using your device to ensure optimal performance and longevity.



Figure 1: MSI GE70 2OE-017US Laptop Overview

The image above shows the MSI GE70 2OE-017US laptop from an angled perspective, highlighting its 17.3-inch display, backlit keyboard, and overall design. The laptop features a black chassis with subtle red accents, characteristic of the MSI G Series gaming line.

2. PRODUCT OVERVIEW

The MSI GE70 2OE-017US is a high-performance 17.3-inch laptop designed for demanding applications and gaming. It features an Intel Core i7-4700MQ processor, NVIDIA GeForce GTX765M graphics, 12GB DDR3 RAM, and a 750GB hard drive.

2.1 Key Features

- **Processor:** Intel Core i7-4700MQ (3.2 GHz, 6 MB Cache)
- **Memory:** 12 GB SO-DIMM DDR3 RAM
- **Storage:** 750 GB 7200 rpm Hard Drive
- **Display:** 17.3-Inch Screen with NVIDIA GeForce GTX765M graphics
- **Operating System:** Windows 8
- **Optical Drive:** BD Combo
- **Connectivity:** 802.11bgn Wireless, 2x USB 2.0 ports, 2x USB 3.0 ports

2.2 Components and Ports

Familiarize yourself with the various components and ports of your laptop.



Figure 2: MSI GE70 2OE-017US Side View with Ports

This image displays a side view of the MSI GE70 2OE-017US laptop, illustrating the arrangement of its various input/output ports. These typically include USB ports, audio jacks, an Ethernet port, HDMI output, and the power connector.

- **Power Button:** Located on the top right of the keyboard deck. Its LED color indicates the active graphics processor (Blue for integrated, Orange for NVIDIA).
- **Keyboard:** Features a backlit keyboard.
- **Touchpad:** Integrated pointing device.
- **USB Ports:** Two USB 2.0 ports and two USB 3.0 ports for connecting peripherals.
- **Optical Drive:** BD Combo drive for disc media.
- **Audio Jacks:** For headphones and microphone.
- **Video Output:** HDMI for external displays.

3. SETUP

3.1 Initial Power On

1. **Connect Power Adapter:** Plug the AC adapter into the laptop's power input port and then into a wall outlet.
2. **Open Display:** Gently lift the display panel to an comfortable viewing angle.
3. **Power On:** Press the power button located on the keyboard deck. The power button LED will illuminate.
4. **Initial Windows Setup:** Follow the on-screen instructions to complete the Windows 8 operating system setup, including language selection, user account creation, and network configuration.

3.2 Connecting Peripherals

Connect external devices such as a mouse, keyboard, or external storage to the available USB ports. For optimal performance with compatible devices, use the USB 3.0 ports.

4. OPERATING INSTRUCTIONS

4.1 Power Management

- **Power On/Off:** Press the power button to turn the laptop on. To turn off, use the Windows 8 shutdown procedure.
- **Sleep Mode:** Close the lid or select "Sleep" from the power options in Windows to enter sleep mode.
- **Battery Life:** The laptop uses a 6-cell Lithium Ion battery. Battery life varies based on usage and settings.

4.2 Graphics Switching (NVIDIA Optimus)

Your laptop features NVIDIA Optimus technology, which automatically switches between the integrated Intel graphics and the dedicated NVIDIA GeForce GTX765M graphics based on the application's demands.

- **Automatic Switching:** The system will dynamically select the appropriate GPU for optimal performance and power efficiency.
- **Manual Configuration:** You can manually configure specific applications to always use either the integrated or dedicated graphics through the NVIDIA Control Panel.
- **Power Button LED:** The power button LED indicates the active GPU:
 - **Blue:** Integrated Intel graphics active.
 - **Orange:** Dedicated NVIDIA graphics active.

4.3 Keyboard Backlighting

The keyboard features adjustable backlighting. Refer to the MSI utility software or function key combinations (e.g., Fn + Fx keys) for controlling backlight intensity and modes.

5. MAINTENANCE

5.1 Cleaning

- **Screen:** Use a soft, lint-free cloth lightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Chassis:** Wipe with a soft, dry cloth. For fingerprints, a slightly damp cloth can be used.
- **Vents:** Periodically clean dust from the cooling vents using compressed air to maintain optimal airflow and prevent overheating.

5.2 Software Updates

Regularly update your operating system, drivers (especially graphics drivers), and security software to ensure system stability and performance.

5.3 Battery Care

- Avoid fully discharging the battery frequently.
- If storing the laptop for an extended period, ensure the battery is charged to approximately 50-60%.
- Operating the laptop in extremely hot or cold environments can affect battery life.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

Issue	Possible Cause	Solution
Laptop does not power on	No power, faulty adapter, or battery issue.	Ensure AC adapter is securely connected and wall outlet is functional. Try powering on with only the AC adapter, or only the battery if charged.
USB 3.0 ports not functioning correctly	Driver issues, firmware bug, or device incompatibility.	Update USB drivers from the MSI support website. Check for BIOS/firmware updates. Test with different USB 3.0 devices.
Overheating during use	Blocked vents, excessive dust, or high system load.	Ensure vents are clear and clean. Use the laptop on a hard, flat surface. Reduce background processes. Consider using a cooling pad.
Slow performance	Too many background applications, low disk space, or outdated drivers.	Close unnecessary programs. Free up disk space. Update drivers and Windows. Run a malware scan.

6.2 System Restore

The laptop includes a hidden partition for system restore. You can access this by pressing **F3** during boot-up to restore the system to factory condition. MSI also provides a utility to create system restore DVDs or USB flash drives.

7. SPECIFICATIONS

Below are the detailed technical specifications for the MSI GE70 2OE-017US laptop.

Feature	Detail
Model Name	GE70 2OE-017US
Screen Size	17.3 Inches
Max Screen Resolution	1920x1080 Pixels
Processor	Intel Core i7-4700MQ (3.2 GHz)
RAM	12 GB SO-DIMM DDR3 (1600 MHz)
Hard Drive	750 GB SATA (7200 RPM)
Graphics Coprocessor	NVIDIA Geforce GTX765M
Graphics Card RAM Size	2000 MB
Operating System	Windows 8
Optical Drive Type	BD Combo
Wireless Type	802.11bgn
USB 2.0 Ports	2

Feature	Detail
USB 3.0 Ports	2
Audio-out Ports	1
Item Weight	5.95 pounds
Product Dimensions (LxWxH)	23.31 x 14.61 x 3.74 inches
Color	Black/Red
Batteries	1 Lithium Ion battery (included)

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official MSI support website.

For technical assistance, driver downloads, and further support, please visit the MSI official support portal. You can often find helpful resources, FAQs, and contact information for customer service there.

- **MSI Official Website:** www.msi.com
- **MSI Support Forum:** Active community forums are available for user-to-user support and information exchange.