

PREDATOR ORION 3000
USER'S MANUAL

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Predator Desktop Computer
Covers: P03-620
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Important

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Register your Predator product

If your new device runs on Windows OS, you may have had your product registered automatically while you start up your device with Windows OS.

Log in at www.acer.com/myproducts with the email address you registered for Windows OS to review your product record. (Reset your password if you do not know it.)

If the record is not found, please follow the steps below to register.

1. Ensure you are connected to the Internet.
2. Go to www.acer.com/register-product.
3. Sign in or sign up for an Acer ID.
4. Enter S/N or SNID of your device to register it.

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

TABLE OF CONTENTS

1 Upgrading your computer	4	Memory	14
Installation precautions.....	4	Memory configuration guidelines	14
ESD precautions.....	4	Removing a memory module.....	15
Required tools	4	Installing a memory module	16
Pre-installation instructions.....	5	Graphics board.....	17
Post-installation instructions.....	5	Removing the graphics board	17
System cover.....	6	Installing the graphics board.....	20
Removing the left side system cover	6	SSD module	22
Installing the left side system cover	7	Removing the SSD module	22
Removing the left side transparent		Installing the SSD module	24
cover	8	2 PredatorSense	26
Installing the left side transparent		PredatorSense features.....	26
cover	9	Lighting.....	27
Hard drives	10	Fan Control.....	28
Removing the 3.5-inch hard drives..	10	Monitoring.....	29
Installing the 3.5-inch hard drives ..	12		

1 UPGRADING YOUR COMPUTER

Installation precautions

Before you install any computer component, we recommend that you read the following sections. These sections contain important ESD precautions along with pre-installation and post-installation instructions.

ESD precautions

Electrostatic discharge (ESD) can damage your processor, disk drives, expansion boards, and other components. Always observe the following precautions before you install a computer component:

1. Do not remove a component from its protective packaging until you are ready to install it.
2. Wear a wrist grounding strap and attach it to a metal part of the computer before handling components. If a wrist strap is not available, maintain contact with the computer throughout any procedure requiring ESD protection.

Required tools

In performing the component replacement process, you will need the following tools:

- Philips screwdriver
- Hex screwdriver
- Flat screwdriver
- Scissors



Note

The screws for the different components vary in size. During the disassembly process, group the screws with their corresponding components to avoid mismatches when putting back the components.

Pre-installation instructions

Always observe the following before you install any component:

1. Make sure that the ODD and card reader slot is empty.
2. Turn off the power to the computer and all peripherals.
3. Unplug the power cord from the computer.
4. Unplug the network cable and all connected peripheral devices from the computer.
5. Place the computer on a flat, steady surface.
6. Open your computer according to the instructions on **Removing the left side system cover on page 6**.
7. See the following sections for specific instructions on the component you wish to install.



Warning

Not turning off the computer properly before you start installing the components may cause serious damage. Do not attempt the procedures described in the following sections unless you are a qualified service technician.

Post-installation instructions

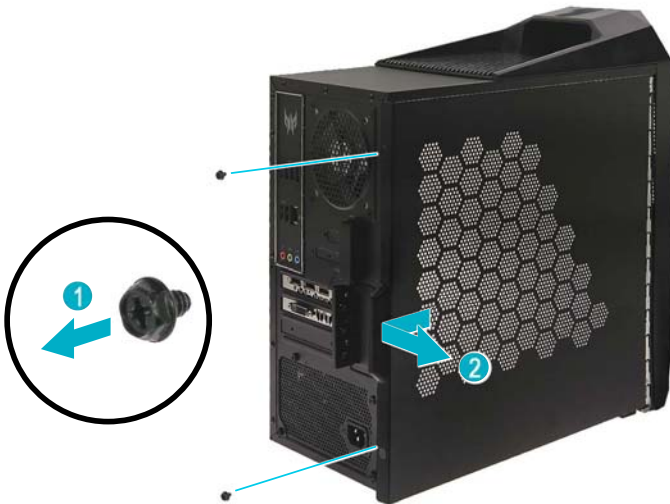
Observe the following after installing a computer component:

1. See to it that the components are installed according to the step-by-step instructions in their respective sections.
2. Replace any expansion boards or peripherals that you removed earlier.
3. Replace the system cover. See **Installing the left side system cover on page 7**.
4. Connect the necessary cables.
5. Turn on your computer.

System cover

Removing the left side system cover

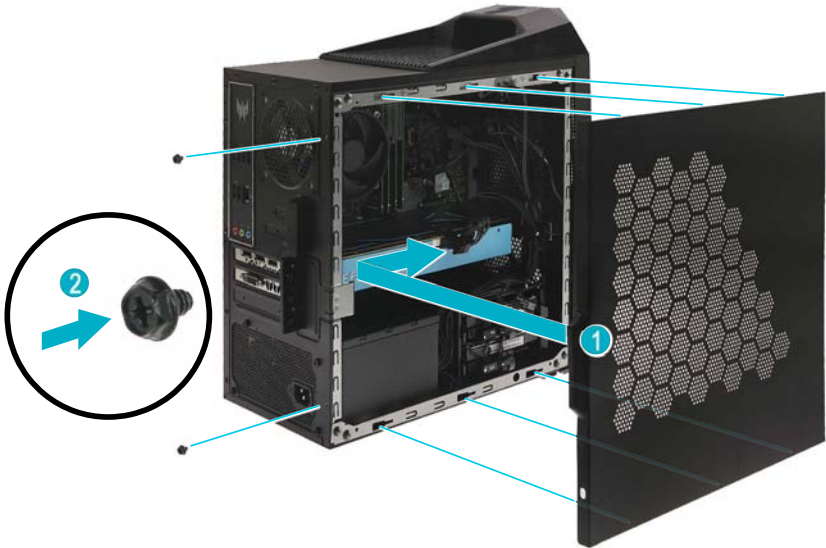
1. Before you proceed, make sure that you have turned off your computer and all peripherals connected to it. Read the **Pre-installation instructions on page 5**.
2. Remove the two screws that secure the system cover to the computer (**1**).
3. Slide the cover toward the back of the computer and pull away from the side of the computer (**2**).



4. Set the cover aside for re-installation later.

Installing the left side system cover

1. Align the cover to the sides of the computer and slide the cover toward the front of the computer **(1)**.
2. Secure the cover with two screws **(2)**.

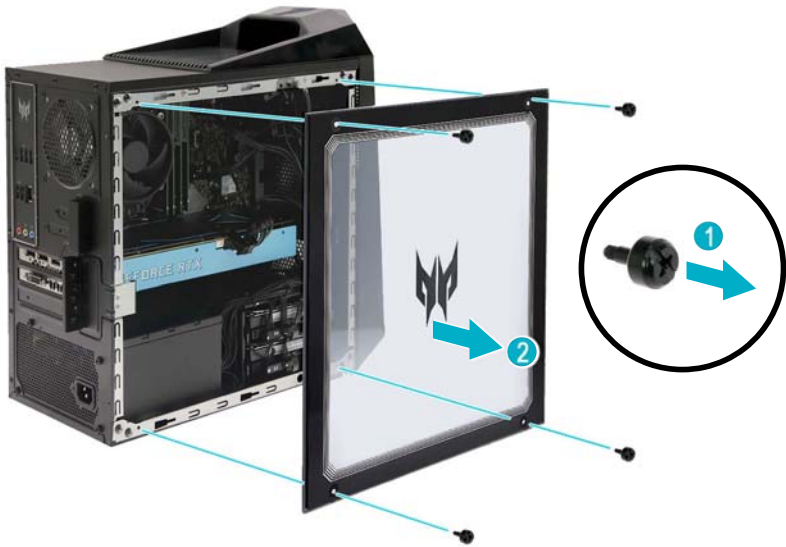


3. Observe the **Post-installation instructions on page 5.**

Removing the left side transparent cover

(For systems with transparent cover only)

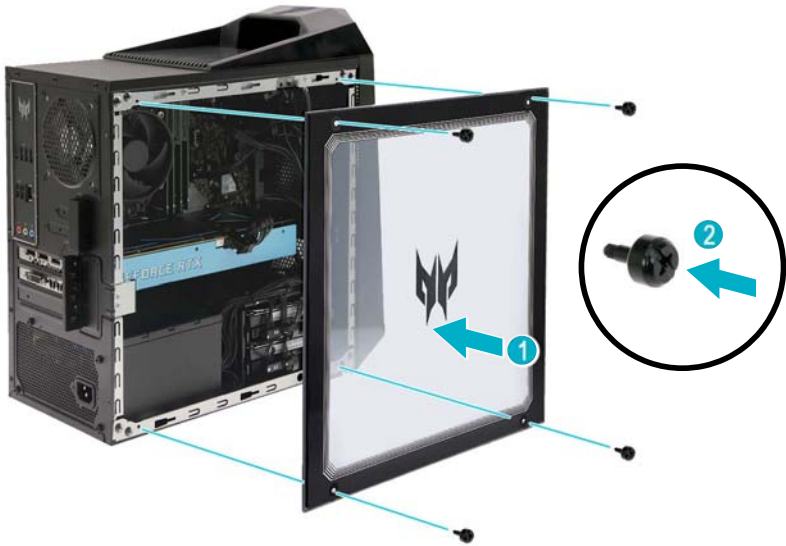
1. Before you proceed, make sure that you have turned off your computer and all peripherals connected to it. Read the **Pre-installation instructions on page 5**.
2. Remove the four screws that secure the transparent cover to the computer **(1)**.
3. Gently detach the cover from the side of the computer **(2)**.



4. Set the cover aside for re-installation later.

Installing the left side transparent cover

1. Align the cover to the sides of the computer **[1]**.
2. Secure the cover with four screws **[2]**.



3. Observe the **Post-installation instructions on page 5.**

Hard drives

The computer supports installation of two 3.5-inch SATA hard drives in the internal HDD cage.

Removing the 3.5-inch hard drives

1. Perform **Pre-installation instructions on page 5**.
2. Disconnect the power and data cables from the hard drives.



3. Remove the hard drives from the chassis.



4. Pull both sides of the HDD carrier [1] then remove the hard drive [2].



Installing the 3.5-inch hard drives

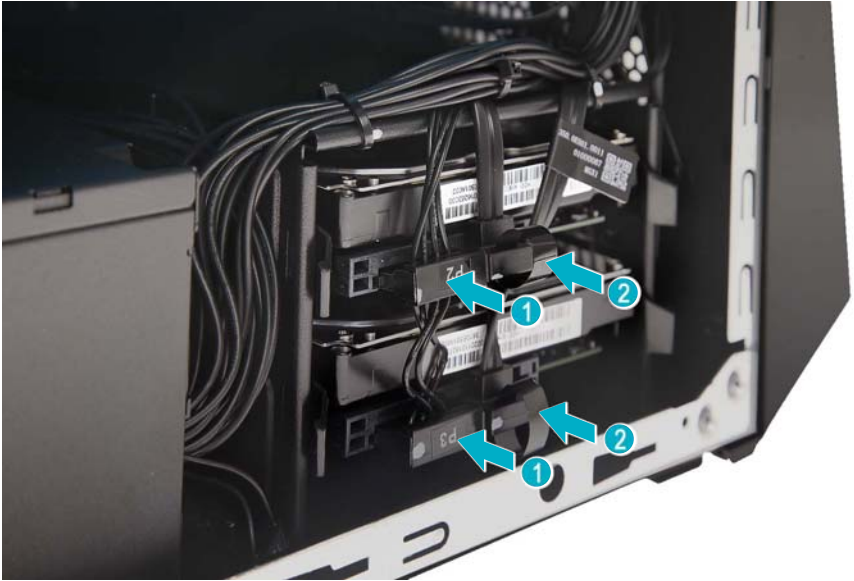
1. Remove the new hard drive from its packaging.
2. Place the hard drive into the carrier (1) and reinsert the retaining screws into the hard drive (2).



3. Insert the hard drives into the chassis.



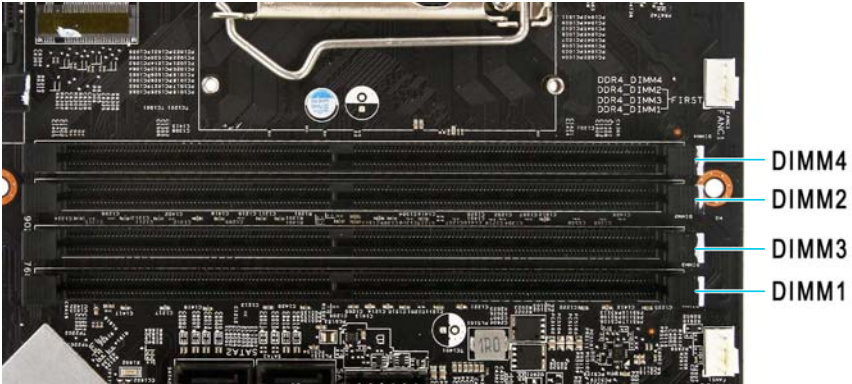
4. Connect the power and data cables to the hard drives.



5. Observe the **Post-installation instructions on page 5.**

Memory

The computer has four DDR4 U-DIMM slots that support up to 64 GB maximum system memory.



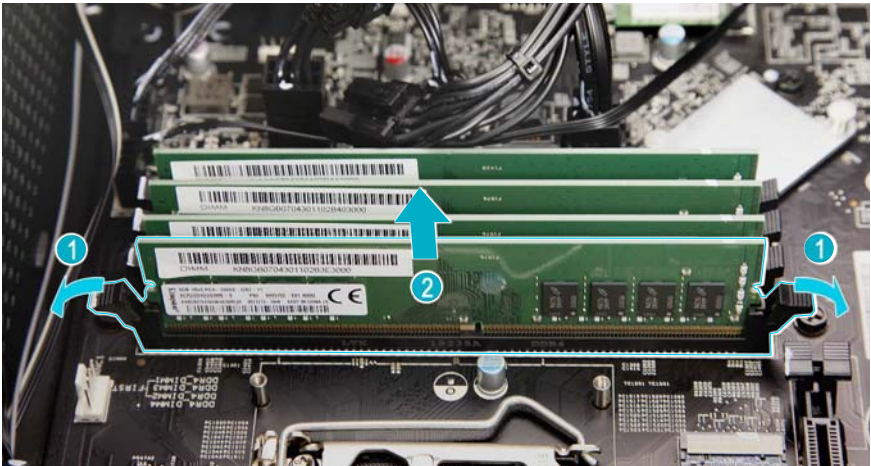
Memory configuration guidelines

- To ensure data integrity, use only Acer-approved DDR4 2666 MHz type memory modules.
- Memory modules must be installed starting with DIMM1 slot.
- Always handle memory modules by its edges.
- When installing memory modules, populate the DIMM slots according to the table below.

Size	DIMM1	DIMM2	DIMM3	DIMM4
4GB	4GB	N/A	N/A	N/A
8GB	4GB	4GB	N/A	N/A
8GB	8GB	N/A	N/A	N/A
16GB	4GB	4GB	4GB	4GB
16GB	8GB	8GB	N/A	N/A
16GB	16GB	N/A	N/A	N/A
32GB	8GB	8GB	8GB	8GB
32GB	16GB	16GB	N/A	N/A
48GB	16GB	8GB	16GB	8GB
64GB	16GB	16GB	16GB	16GB

Removing a memory module

1. Perform **Pre-installation instructions on page 5**.
2. Remove the graphics board. See **Removing the graphics board on page 17**.
3. Press outward the holding clips on both sides of the DIMM slot outward to release the memory module (1).
4. Gently pull the memory module upward to remove it from the DIMM slot (2).



5. Repeat steps 5~6 to remove the other memory modules.

Installing a memory module



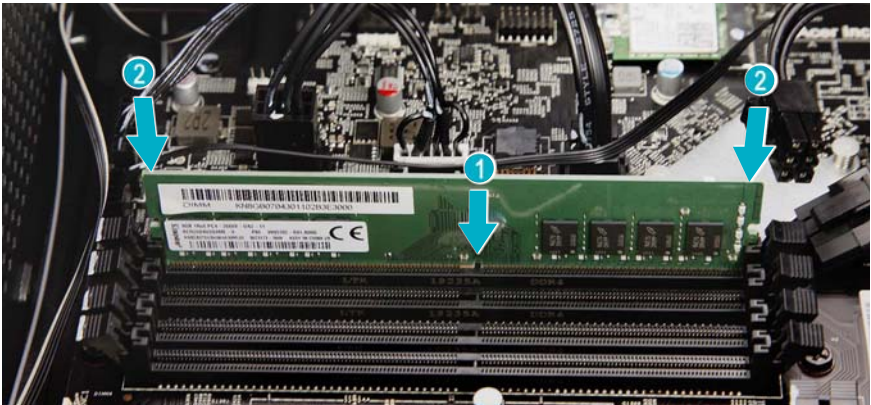
Note

DIMM slots on the mainboard must be installed only in certain configurations. Numbers next to DIMM slots correspond to installation sequence.

Be sure to install the memory module in DIMM1 slot followed by DIMM2 slot.

1. Select an empty DIMM slot.
2. Remove the new memory module from its packaging, handling it by the edges.
3. Align then insert the memory module into the DIMM slot (1).
4. Push the module to the slot until the retaining clips snap inward (2).

The module is keyed so it can only be inserted in one direction. If the module does not fit, make sure that the notch in the module lines up with the tab in the memory slot.



5. Repeat steps 1~4 to install the other memory modules.
6. Replace the graphics board. See **Installing the graphics board on page 20**.
7. Observe the **Post-installation instructions on page 5**.

Graphics board

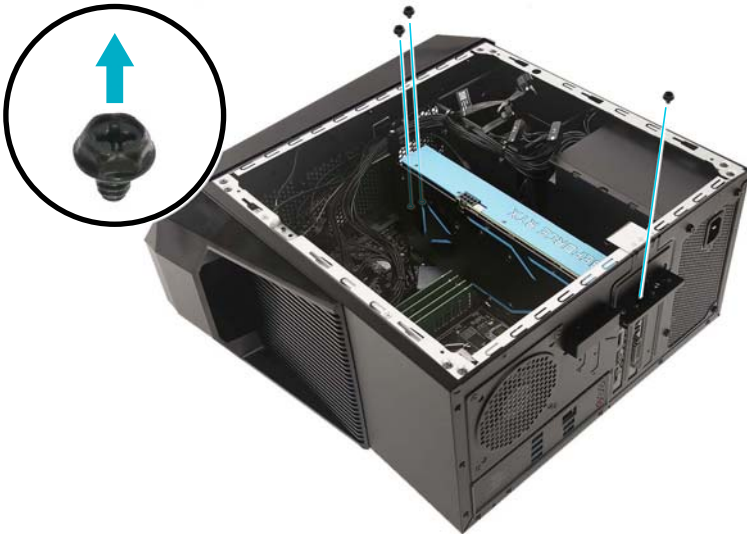
The computer contains one graphics board installed in the PCIe x16 slot.

Removing the graphics board

1. Perform **Pre-installation instructions on page 5**.
2. Disconnect the power cables from the graphics board.



3. Remove the three screws that secure the graphics board to the chassis.



4. Unlatch the metal clip that secure the graphics board to the chassis.



5. Release the latch that secures the graphics board to the mainboard **(1)**.
6. Detach the graphics board from the PCIe x16 slot **(2)**.



Installing the graphics board

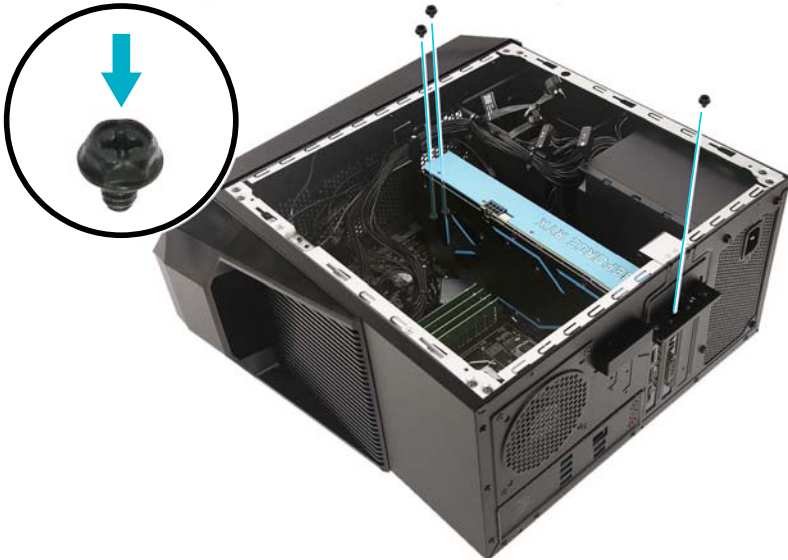
1. Remove the new graphics board from its packaging.
2. Insert the graphics board into the PCIe x16 slot and press it down until it latches into place.



3. Press the metal clip to secure the expansion board bracket.



4. Secure the graphics board to the chassis using three screws.



5. Connect the power cables to the graphics board.



6. Observe the **Post-installation instructions** on page 5.

SSD module

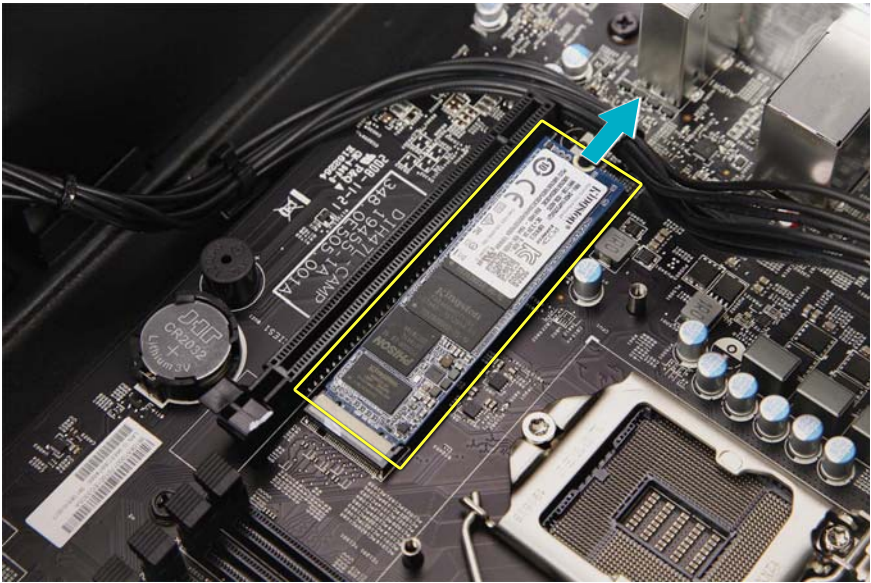
The computer contains one SSD module installed in the mini-PCIe slot.

Removing the SSD module

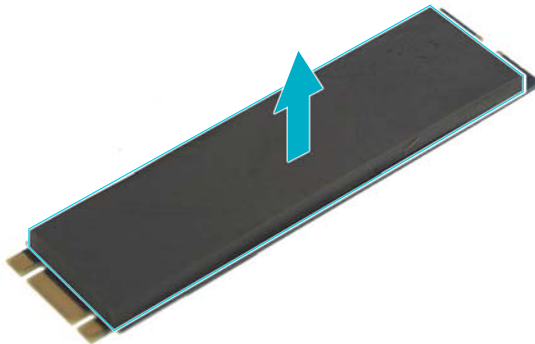
1. Perform **Pre-installation instructions on page 5**.
2. Remove the graphics board. See **Removing the graphics board on page 17**.
3. Remove the screw that secures the SSD module to the mainboard.



4. Detach the SSD module from the mainboard.

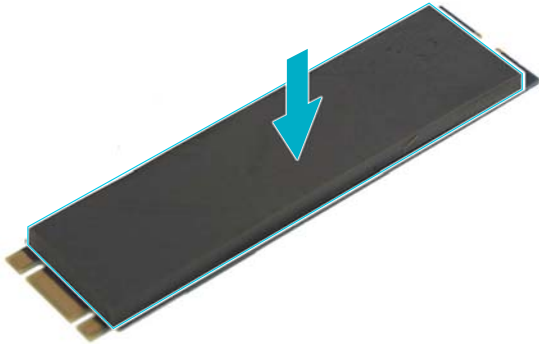


5. Remove the thermal pad from the SSD module.



Installing the SSD module

1. Remove the new SSD module from its packaging.
2. Place a thermal pad into the SSD module.



3. Insert the SSD module into its slot in the mainboard.



4. Secure the SSD module with one screw.



5. Replace the graphics board. See **Installing the graphics board on page 20**.

6. Observe the **Post-installation instructions on page 5**.

2 PREDATORSENSE

PredatorSense (DT) V3.0 is an Acer proprietary utility that can be used to enhance the user experience of Gaming products on Microsoft Windows 10.

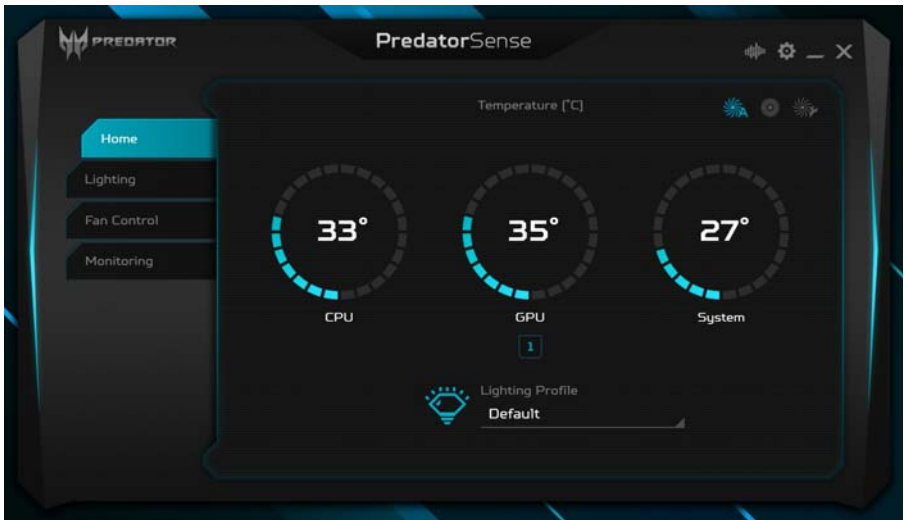
The central idea of this utility is to provide a user interface to easily control fan speed, RGB lighting effects and also monitor processor, GPU and system performance.

PredatorSense features

- **Lighting (RGB Lighting Effects)**
- **Fan Control**
- **Monitoring (System Information Dashboard)**

To set up the PredatorSense application (Windows 10):

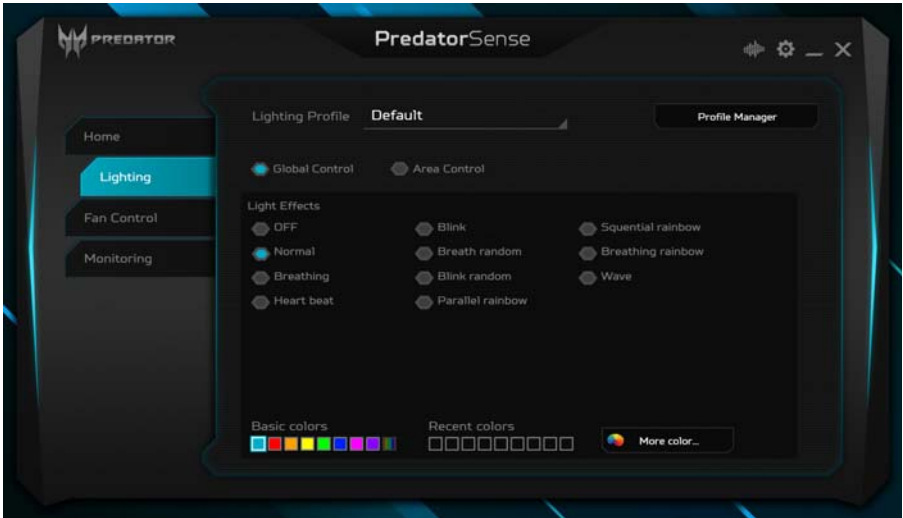
1. From the *Start* menu, select **All apps**.
2. Select **Acer**.
3. Select **PredatorSense**.



Alternatively, you can double-click the PredatorSense desktop shortcut to run the application.

Lighting

Select the Lighting tab to configure the system's lighting options.



Category	Description
Lighting Profile	Shows the current lighting profile used by the system. Load a previously saved lighting profile by choosing from the drop down list.
Profile Manager	Add or remove a user's custom lighting profile.
Global Control	Set up the lighting effects configuration as a theme for the whole system.
Area Control	Customize the lighting effects configuration of the Front light bar, Front Fan and Rear Fan.

Fan Control

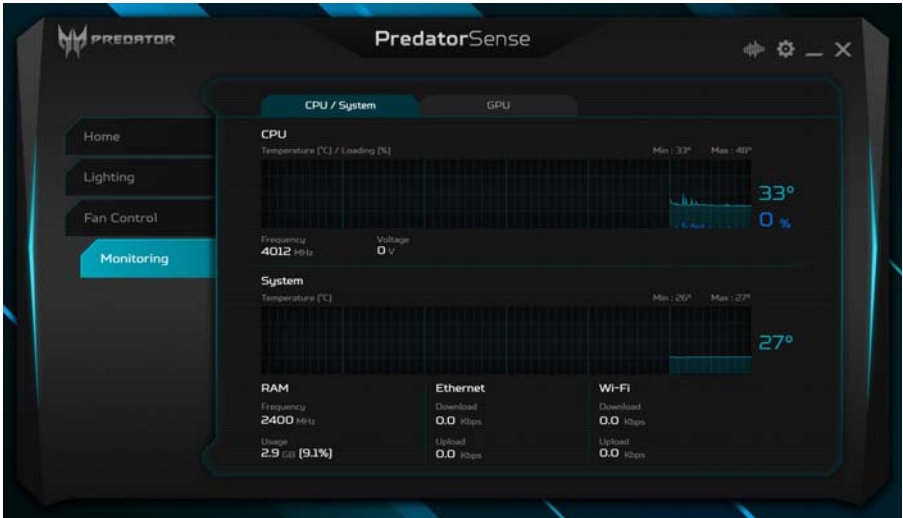
Select the Fan Control tab to adjust the fan speed.



Category	Description
Auto	Allows system to control fan speed according to actual system usage.
Gaming	Configure fan speed for gaming use.
Custom	Manually adjust fan speed to desired RPM.

Monitoring

Select the Monitoring tab to view CPU/System and GPU performance.



Category	Description
CPU/System	Displays CPU and System temperature and loading. Also displays RAM, Wi-Fi and LAN usage.
GPU	Displays GPU System temperature and loading.