Introducing the EVGA SC17G Gaming, the apex of portable performance for the gamer and professional.

Powered by an Intel i7 quad-core processor and a NVidia GTX 1080 graphics card, the EVGA SC17 GEFORCE® GTX 1080 GAMING also comes with a M.2 PCI-E SSD, 1TB additional storage, 32GB of DDR4 RAM, Thunderbolt 3.0, Intel Gigabit LAN, Bluetooth 4.2, and a 17.3” IPS G-SYNC screen - giving you the best performance components in a portable package.

The EVGA SC17 GEFORCE® GTX 1080 GAMING Notebook is a complete turn-key solution; the notebook is pre-installed with Windows 10 Home 64-bit and a minimalistic suite of software. There is no need to clutter a new PC with software you do not need, so we included only a hardware monitoring utility, the Intel Storage Management software and nothing else, leaving your notebook clean, sleek, and fast - just what you need in a Performance Laptop.

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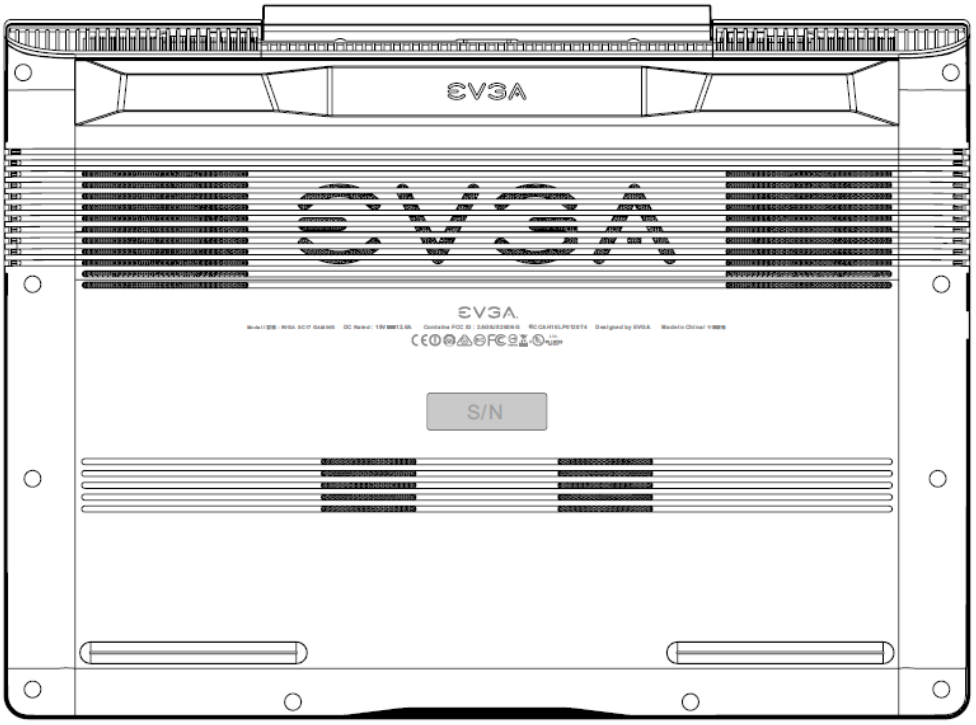
What's in the Box?

Package Contents:

- EVGA SC17 GEFORCE® GTX 1080 GAMING
- Power Adapter
- Power cord
- Manual
- 1 pcs USB type C to A cable
- 1 pcs Audio cable

Serial and Registration

The serial number and part number sticker will be on the bottom of the laptop here (see below pic).



If you already have an account at www.evga.com, log in, navigate to "Member", select "Product Registration", and follow the prompts for registering your new Notebook.

If you do not have an account, please go to www.evga.com, click on "Member Login" at the upper-right, click the "Sign Up" button, and follow the prompts. Once

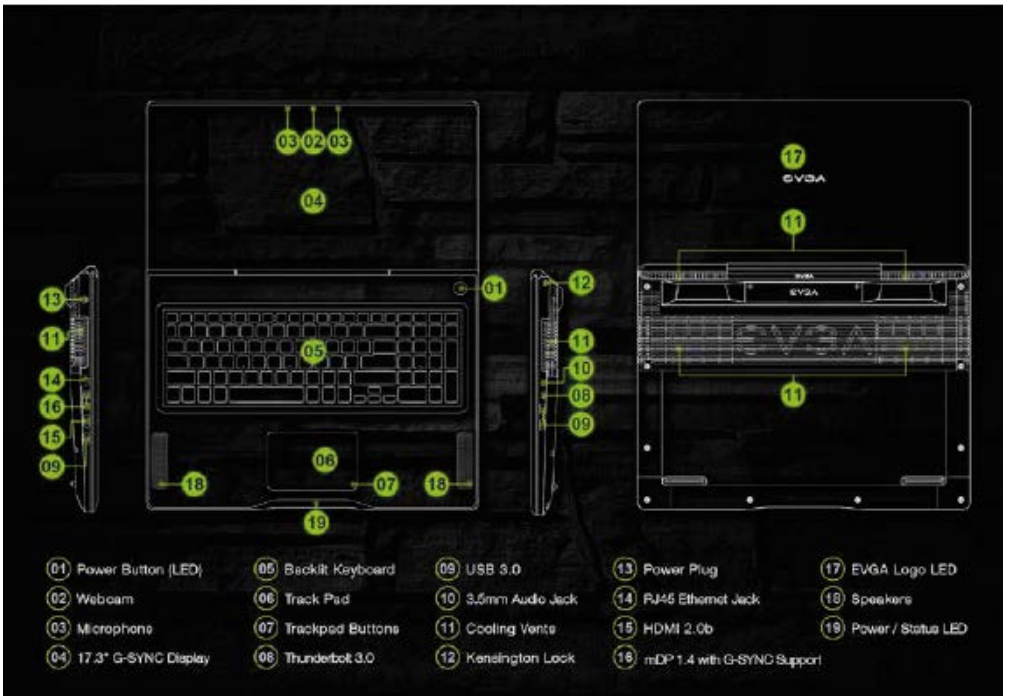
your account is created, look for the activation email and follow the instructions. You can now register your Notebook.

With the Notebook registered, you can check your warranty status and contact our 24/7 Customer Service if you have any questions or concerns.

Technical Support

EVGA has industry-leading Customer Service / Technical Support in the US available 24/7 via phone and email. Customer Service can be reached by phone at 888-881-EVGA (3842); by email at support@evga.com; and by going to www.evga.com, select “Member”, then “My Products”, click on “View Details” under your EVGA SC17 GEFORCE GTX 1080 GAMING, click on Support Tickets, and then click on Submit a Ticket.

Features



EVGA Logo LED (17) can be set to 10 levels of brightness in Precision X Mobile.

Power/Status LED

- Full Brightness Light – Power On/Plugged In
- Blinking Light – Sleep/S3
- Off – Power Off
- Medium Brightness Light – Running on Battery
- Flashing Light – Battery Low (5% left)

Specifications

Dimensions:

408mm (16.06 inches) X 295.5mm (11.63 inches) X 33mm (1.30 inch)
Weight: 4.05kg, 8lb 15.07oz

CPU:

Intel i7-7820HK Kaby Lake-H Mobile Unlocked CPU

Operating System:

Windows 10 Home 64-bit

System RAM:

32GB 2666MHz DDR4 SO-DIMMs (16GBx2)

Graphics:

NVidia GeForce GTX 1080 with 8GB GDDR5X

Panel:

17.3 UHD 4K LCM with GSYNC*/17.3 QHD 2K LCM with GSYNC**/17.3 FHD LCM with G-SYNC***

* 4K UHD found on SC17 GEFORCE® GTX 1080 4KG GAMING
** 2K QHD found on SC17 GEFORCE® GTX 1080 2KG GAMING
*** FHD found on SC17 GEFORCE® GTX 1080 G GAMING
G-SYNC:
Supports 2 EXTERNAL G-SYNC monitors and supports internal G-SYNC

Audio:

Realtek ALC 255
Stereo Speakers
3.5mm Headphone /Mic Jack

Storage:

256GB M.2 PCI-E SSD
1TB 7200RPM SATA 6G

Ethernet:

Intel i219-V 10/100/1000 Controller
1x RJ45 Connector

Wi-Fi:

Intel Snowfield Peak AC-8265

Bluetooth:

BT 4.2

USB:

3x USB 3.0 Type A
1x Thunderbolt 3.0 Supports 5K (60Hz) external display

Video Out:

1x HDMI 2.0b
2x mDP 1.4

WebCam:

FHD 1920x1080
Integrated Digital Mic

Touchpad:

Clickpad 1.5

Keyboard:

Full-sized white backlit with Number pad.
EVGA Font

Keyboard Key Functions:

F1/F2: LCD Backlight Brightness
F3/F4: Keyboard Backlight Brightness
F5: External Mode (output on HDMI port)
F6: LCD on/off
F7: Touchpad on/off
F8: Windows Key on/off
F9/F10/F11: Volume Adjust
F12: Airplane mode (WiFi/Bluetooth off)
Home/Pg Up/Pg Dn/End: Music Track

Getting Started

Your EVGA SC17 GEFORCE® GTX 1080 GAMING Notebook is powered down during the shipping process and must be charged to start. First, connect the charger to the left side of your notebook and plug the other end into the wall outlet.

Press the power button to start the EVGA SC17 GEFORCE® GTX 1080 GAMING Notebook.

The first time you run your EVGA SC17 GEFORCE® GTX 1080 GAMING Notebook, make sure to plug it in for at least 3 hours to allow it to fully charge.

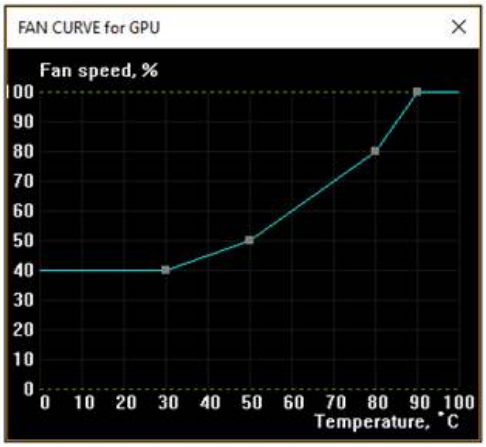
Configuring Precision X Mobile for the EVGA SC17 GEFORCE® GTX 1080 GAMING

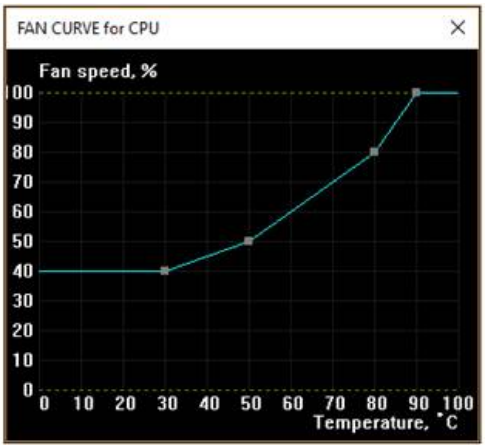
PrecisionX Mobile is designed to be the monitoring and tuning suite for your EVGA SC17 GEFORCE® GTX 1080 GAMING. This will cover monitoring in the upper section as well as specific controls for the CPU, Motherboard, Graphics card, lighting, and general non-performance/appearance options.

On the upper right side of the main screen there are 5 buttons that control overall performance aspects of the EVGA SC17 GEFORCE® GTX 1080 GAMING.

Custom:	This tab will allow you to save custom CPU and GPU overclocking values.
Superclock:	This setting forces the CPU to run at its boost clock value of 3.9GHz and also pushes the GPU to Boost clock mode as well.
Normal:	Default mode. This allows the CPU and GPU to use its boost and throttling functions by default based on load.
Silent Mode:	CPU runs at default values, GPU cannot go into boost mode, and cooling fans run at a reduced fan speed.
Downclock:	Forces the EVGA SC17 GEFORCE® GTX 1080 GAMING to run in a throttled state, uses reduced performance for low demand apps, significantly reduces heat, and extends battery life.
Fan Control:	This will open 2 graphs, one for CPU and one for GPU, to let you control the balance of temp and fan noise. If the curve is manually set too low for some loads, the fans will ramp up to 100% on their own when there is a risk of hardware damage.
FAN BOOST:	The FAN BOOST button located at the bottom of the center menu will increase all fans to 100% ignoring all preset fan curve information

Fan Control





The 2 above curves will function the same way. The square points on the graph reference when the GPU or CPU reaches a certain temperature, the fan will increase to a specified percentage.

The curves above are a baseline, you can reduce the speed some to help with noise, but the operating temperature will increase. Also, if noise is not a concern you can safely turn the fan speed to 100% and the system will run much cooler.

CPU Dashboard

CPU Clock: This will show the current frequency of your CPU. The CPU frequency will vary based on load, background applications, etc. It is common, without overclocking, to see this specific model of CPU fluctuate between 800 MHz and 3900 MHz (3.9 GHz). Overclocking the CPU will change the frequency parameters, but the clocks will still fluctuate.

CPU Temp: This displays the temperature, in Celsius, of the CPU socket. The Core temperature can normally operate in a wide range between 15℃ to 100℃ due to a variety of factors, including CPU Clock, ambient temps, and load level.

CPU Voltage: this monitors the current VCore of the CPU. This will vary on its own, however in override mode it can be set to a static value.

System Temp: This is the temp of the PCH (chipset) on the motherboard. This will normally be lower than the CPU temp.

Fan Speed: This is the RPM of the chassis fan. The Fan Speed will adjust based on the CPU/GPU/System temp.

Memory Clock: This is the current frequency of your system RAM. The default speed is 2666MHz.

GPU Dashboard

GPU Clock: This will show the current frequency of your GPU. The GPU Clock will vary based on load, background applications, etc.

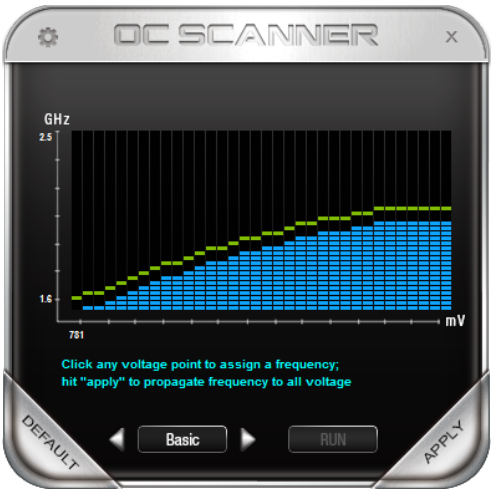
GPU Temp: This displays the temperature, in Celsius, of the GPU. The GPU can normally operate in a wide range between 25℃ to 35℃ at idle, depending on ambient temps, and has a maximum safe limit of 100C under heavy load.

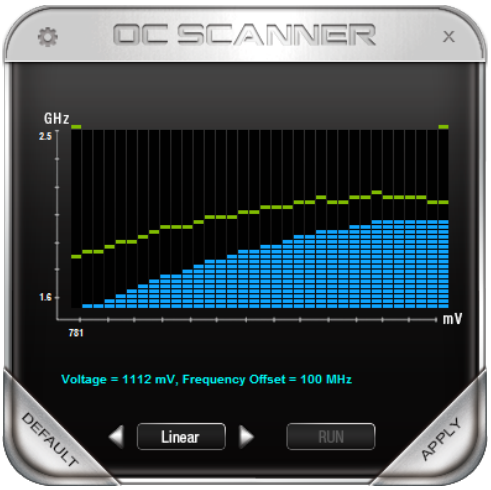
GPU Voltage: This monitors the current VCore of the GPU. This will normally fluctuate, depending on load value and overclocks.

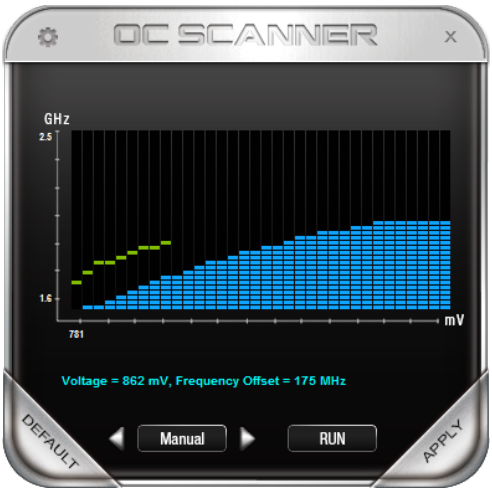
Fan Speed: This is the RPM of the GPU fan. The Fan Speed will adjust based on the GPU temp.

GPU Memory: This is the current frequency of your VRAM. The frequency will vary based on load. The memory clock will be displayed at half the actual speed of the memory; this is a function of DDR RAM and completely normal.

Click on the OC button in the lower left to bring up the new overclocking tool, which is able to provide an auto tune. This functions much like the desktop version of the 10 series and Precision X OC. With full support for Basic, Linear, and Manual curves.


OC SCANNER
GHz
2.5
1.6
781
mV
Click any voltage point to assign a frequency;
hit "apply" to propagate frequency to all voltage
DEFAULT
Basic
RUN
APPLY


OC SCANNER
GHz
2.5
1.6
781
mV
Voltage = 1112 mV, Frequency Offset = 100 MHz
DEFAULT
Linear
RUN
APPLY


OC SCANNER
GHz
2.5
1.6
781
mV
Voltage = 862 mV, Frequency Offset = 175 MHz
DEFAULT
Manual
RUN
APPLY

CPU Tab:
This displays the settings for the CPU.

Core 1: Displays the current max multiplier for Core 1
Core 2: Displays the current max multiplier for Core 2
Core 3: Displays the current max multiplier for Core 3
Core 4: Displays the current max multiplier for Core 4
Ring: Displays the current max multiplier for the Ring

VCore Mode: Switches the optional CPU overclock mode between Adaptive and Override.

Adaptive – Provides a Voltage target and an offset voltage, providing the BIOS with a desired range to run within.
Override – Sets all voltage to a static value.

GPU Tab:
This displays the settings for the GPU.

Core Clock Offset: Increase the upper threshold of the GPU clock and Boost clock.

Memory Clock Offset: Increase the upper threshold for the Memory clock.

Lighting Tab:
This displays the current settings for the backlight settings on the keyboard.

Manual Control: This slider gives you manual control over the brightness of the Keyboard backlighting.

Breathe: This creates a breathing effect of the backlighting. The backlight slowly increases and decreases the backlight, oscillating indefinitely.

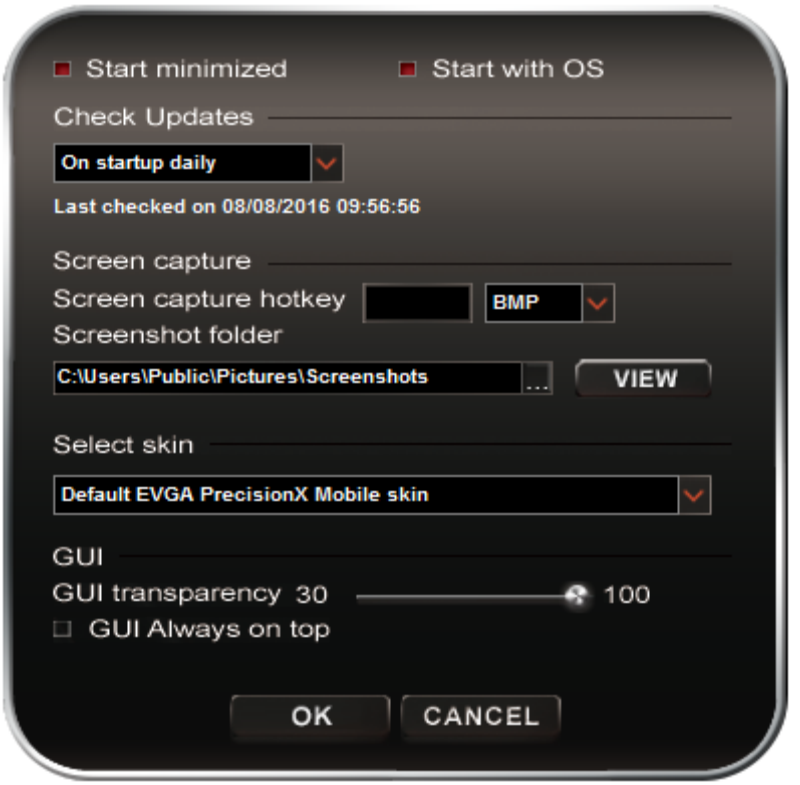
GPU Utilization: This option changes the LED brightness based on the GPU load %. LED brightness will be dimmer at a lower load % and brighter at a higher load %.

GPU Clock: This option changes the LED brightness based on the GPU Clock speed. LED brightness will be dimmer at lower clocks and brighter at a higher clock speed.

GPU Temp: This option changes the LED brightness based on the GPU temps. LED brightness will be dimmer at lower temps and brighter at a higher temperature.

Cover Logo: This toggles the cover logo LED has 10 levels of brightness controlled by the slider bar.

Options Tab:
Settings for controlling PrecisionX Mobile's features outside of hardware.



Start Minimized: When Precision X Mobile starts, the program will start minimized in the system tray.

Start with OS: When the EVGA SC17 GEFORCE® GTX 1080 GAMING Notebook boots, this setting enables Precision X Mobile to be launched with the operating system.

Check Updates: This setting schedules how often to check for updates to the Precision X Mobile software.

Screen Capture Hotkey: This designates a key or keys to be pressed to capture a screen image.

Screenshot Format: This allows you to select the file type the screenshots are saved as.

Screenshot Folder: This designates a location to store the screenshots taken with the above step. The Browse and View buttons help you to select and verify the proper location.

Select Skin: This selects the background visuals, font, and color options of the UI for Precision X Mobile.

GUI Transparency: This is a slider sets the opacity of the UI.

GUI Always on top: Enabling this option will force this software to always stay on top of other programs you have running.

NOTE: The above images of Precision X Mobile OC Utility are from a beta version, and may not accurately reflect the Precision X Mobile OC Utility that comes with your Notebook. For the latest version, please use “Check Updates” feature in Precision X Mobile or visit EVGA.com

Comfort with Continuous Use

1. Position your EVGA SC17 GEFORCE® GTX 1080 GAMING Notebook directly in front of you. If you have an external mouse, use it adjacent to the EVGA SC17 GEFORCE® GTX 1080 GAMING and within easy reach. Do not place it in a position where you must stretch to reach the mouse or EVGA SC15 GEFORCE® GTX 1060 GAMING.

2. Adjust the height of your chair and/or desk to put the keyboard just slightly below elbow height.

3. Keep your posture straight and your shoulders relaxed.

4. During gameplay or long work periods, keep your wrists relaxed and straight. When doing repetitive tasks avoid keeping your hands and wrists flexed or extended for prolonged periods of time.

5. When using the EVGA SC17 GEFORCE® GTX 1080 GAMING Notebook for long periods of time, do not rest your wrists on a hard surface; instead use a wrist rest for proper wrist support. This should minimize fatigue.

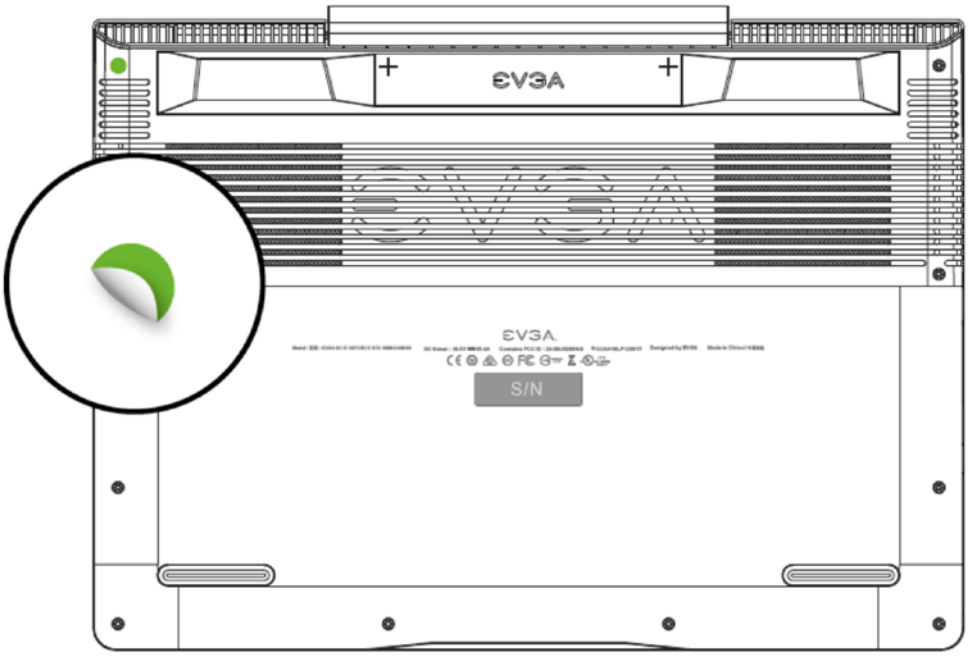
6. Sitting in the same position for extended periods of time is not ideal and could lead to serious health problems. You should get up, walk around, and move your arms and legs at regular intervals.

Remove Warning

Removing the sticker on the screw hole indicates the chassis has been opened.

If chassis is opened all components must be returned to original condition before returning for service.

Opening the chassis does NOT void the warranty if it is returned to original condition before returning for service.



Compliance Information

FCC Compliance Information

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: (1) Reorient or relocate the receiving antenna, or (2) Increase the separation between the equipment and receiver, or (3) Connect the into an outlet on a circuit different from that which the receiver is connected, or (4) consult the dealer or an experienced radio/TV technician for help. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Federal Communications Commission (FCC) Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE 1-1999 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

Contains Transmitter Module FCC ID : 2AG9J8265NG

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device is restricted to indoor use.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance.

CE Compliance Information

Generic Radiation Interference Standard for Information Technology Equipment. (EN 55032: 2015/AC:2016, Class B), (EN 61000-3-2: 2014), (EN 61000-3-3: 2013). Warning: This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measure. Generic Immunity Standard for Information Technology Equipment.(EN 55024: 2010).

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CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type.
Dispose of Used Batteries According to the Instructions.

ENERGY STAR complied product

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices. All EVGA products with the ENERGY STAR logo comply with the ENERGY STAR standard, and the power management feature is enabled by default. The monitor and computer are automatically set to sleep after 15 and 30 minutes of user inactivity. To wake your computer, click the mouse or press any key on the keyboard. Please visit http://www.energy.gov/powermanagement for detail information on power management and its benefits to the environment. In addition, please visit http://www.energystar.gov for detail information on the ENERGY STAR joint program.

NOTE: Energy Star is NOT supported on FreeDOS and Linux-based operating systems.

Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency range (MHz)	Max. Transmit Power (dBm/mW)
2400-2483.5	19.44dBm
5150-5250	18.75dBm
5250-5350	18.79dBm
5470-5725	20.78dBm
Bluetooth; 2, 4 GHz	13.99dBm

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy.

Hereby, [EVGA CORPORATION] declares that the radio equipment type [EVGA SC17 GEFORCE GTX 1080 GAMING] is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address:

https://www.evga.com/Support/manuals/