

# OMEN 15 Laptop 15-ek0005na



Here to make your other laptop jealous

It's not just a gaming laptop, it's THE gaming laptop. Obviously, the OMEN 15 has a powerful Intel® processor and NVIDIA® graphics in a compact frame. Did we mention it has a fast display and long battery life? Yeah, it has everything and you can take it even further with OMEN Command Center. So, just enjoy those envious looks while you play, it's only natural.



AUDIO BY  
BANG & OLUFSEN



## Powerful in all the right places

The OMEN 15 is a perfect example of how there can never be too much of a good thing. With a powerful Intel® processor and NVIDIA® graphics cooled by OMEN Tempest Cooling, it makes you think how it all fits into such a tiny little package.

## Beautiful doesn't begin to describe it

We don't need to tell you how good it looks and feels to play on, but we're going to do it anyway. It's easy on the eyes with a luscious design and fast display. Crafted with Audio by Bang & Olufsen and super long battery life, so that means you won't stop farming those wins or those admiring looks.

## Now it's personal

The OMEN 15 doesn't just stop at having powerful specs and an amazing look. With OMEN Command Center, you can customize and optimize everything from performance controls to the customized keyboard. It's easy to upgrade and has all the ports you need, so you can take it even further beyond other mere gaming laptops.



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## Featuring

### Windows 10

Do great things confidently with the familiar feel of Windows - only better.<sup>1</sup>

### NVIDIA® GeForce RTX™ 2070 graphics with Max-Q design

The all-new NVIDIA Turing™ architecture with breakthrough ray tracing technology brings the future of gaming with incredible realism and performance with NVIDIA® GeForce RTX™ 2070 Max-Q graphics.

### NVIDIA® G-SYNC™

By synchronizing the refresh rates of your GPU and display, NVIDIA® G-SYNC™ technology delivers gameplay that's sharp, fluid, and stutter-free with minimal input lag.

### 10th Generation Intel® Core™ processor

Take mobile gaming and content creation to the next-level with breakthrough performance. Let your connectivity flow with fast downloads and smooth streaming with optional Wi-Fi 6 and optional lightning fast Thunderbolt™ 3 support.<sup>2</sup>

### Full HD display

Sit back and enjoy crystal-clear visuals and images with the vibrant quality of 2 million pixels. The 1920 x 1080 resolution gives all your digital content a new dimension.<sup>3</sup>

### Four-zone island-style backlit keyboard

Allows you to backlight 4 independent zones with different RGB lighting. WASD keys are outlined to highlight key controls. It's all easily controlled through the OMEN Command Center.

### DDR4 RAM

Designed to run more efficiently and more reliably at faster speeds, DDR4 is the future of RAM. With its higher bandwidth, everything from multi-tasking to playing games gets a performance boost.

### Effortlessly connected

Enjoy a smoother wireless experience with Wi-Fi 6 (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5.<sup>4</sup>

### MU-MIMO supported

If you have several MU-MIMO devices in your home, MU-MIMO support works in combination with a MU-MIMO router to maximize network traffic for a smoother online experience.

### McAfee® LiveSafe™

Free 12-month subscription of McAfee® LiveSafe™ service included. McAfee® LiveSafe™ service enriches your digital life by protecting your data, identity and all your devices so you can connect with confidence.<sup>5</sup>

### HDMI out

It's never been easier to give your device a bigger or second display. With HDMI output you can transmit HD video and sound with just one standard cable.

### Elevated aesthetic

Designed with an aluminum-finished palm rest for a premium look.

### Thin and light gaming

A small footprint and thin and light design lets you easily take this PC with you for ultraportable gaming.

### Three sided narrow bezel

By squeezing a larger screen into a smaller frame, this narrow bezel optimizes your display's appearance with an efficient design.

### HP Fast Charge

When your laptop is low on power, no one has time to wait hours to recharge. Power down your device and go from 0 to 50% charge in approximately 45 minutes.<sup>14</sup>

### OMEN Tempest Cooling Technology

Stay cool under pressure with the advanced laptop thermal solution, OMEN Tempest Cooling Technology. 3-sided venting and 5-way airflow ensure optimal system stability and performance when gameplay heats up.<sup>15</sup>

### Crafted for expansion

Easy single-panel access to SSD and RAM allow for future expansion capability.

### DTS: X Ultra Technology

By producing authentic, spatially accurate 3D sound through any headset, this technology offers specially tuned audio modes for different game types to provide immersion for the best entertainment experience possible.<sup>16</sup>

### An exceptionally rich audio experience

HP speakers, custom-tuned in collaboration with experts at Bang & Olufsen, bring entertainment to life with sound you can feel. Awaken your senses with PC audio perfection.

### HP Audio Boost

Feel and hear state-of-the-art sound with the next generation of HP Audio Boost and SmartAmp technology—providing louder, richer sound and booming bass performance without distortion.

### Enlarged touchpad

More room on your touchpad makes controlling your PC effortless and intuitive.

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## Specifications

### Performance

#### Operating system

Windows 10 Home 64

#### Processor

Intel® Core™ i7-10750H (2.6 GHz base frequency, up to 5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)<sup>6,7</sup>

Processor family: 10th Generation Intel® Core™ i7 processor

#### Chipset

Intel® HM470

#### Memory

16 GB DDR4-2933 SDRAM (2 x 8 GB)

2:

Transfer rates up to 2933 MT/s.

#### Storage

1 TB PCIe® NVMe™ M.2 SSD

Optical drive not included

Dropbox<sup>1</sup>

#### Graphics

Discrete: NVIDIA® GeForce RTX™ 2070 with Max-Q design (8 GB GDDR6 dedicated)<sup>8</sup>;

Powered by NVIDIA Turing™ GPU architecture

#### Audio

Audio by Bang & Olufsen; DTS:X® Ultra; OMEN Audio Control Support DTS:X® Ultra; Dual speakers; HP Audio Boost 2.0

#### Display

39.6 cm (15.6") diagonal FHD, 144 Hz, IPS, anti-glare, micro-edge, WLED-backlit, 300 nits, 72% NTSC (1920 x 1080)<sup>17</sup>

#### Screen-to-body ratio

80.95%<sup>18</sup>

#### Power

200 W Smart AC power adapter;

#### Battery type

6-cell, 70.9 Wh Li-ion;

270 g;

#### Battery and Power

Up to 5 hours and 30 minutes<sup>3</sup>;

Supports battery fast charge: approximately 50% in 45 minutes<sup>5</sup>

#### Maximum battery life video playback

Up to 5 hours and 30 minutes<sup>10</sup>

### Connectivity

#### Network interface

Integrated 10/100/1000 GbE LAN

#### Wireless connectivity

Intel® Wi-Fi 6 AX 201 (2x2) and Bluetooth® 5 Combo (Supporting Gigabit file transfer speeds)<sup>11,12,13,16</sup>

MU-MIMO supported; Miracast compatible

#### Ports

1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate (DisplayPort™ 1.4, HP Sleep and Charge); 1 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 Mini DisplayPort™; 1 HDMI 2.0a; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo

1 multi-format SD media card reader

#### Webcam

HP Wide Vision 720p HD camera with integrated dual array digital microphone

### Design

#### Product color

Shadow black

Metallic matte cover and base, anodized keyboard frame

### Software

#### HP apps

OMEN Command Center; HP 3D DriveGuard; HP Audio Switch; HP JumpStart; HP Support Assistant

#### Software

Alexa; ExpressVPN (30 day free trial); LastPass Premium (30 day free trial);

1 month trial for new Microsoft 365 customers

#### Service & support

McAfee LiveSafe™<sup>2</sup>

### Additional information

#### Part Number

P/N: 3F854EA #ABU

UPC/EAN code: 194850739194

#### Energy efficiency compliance

ENERGY STAR® certified; EPEAT® Silver registered

#### Weight

Starting at 2.36 kg;

Packed: 3.65 kg

Weight Note: Weight varies by configuration

#### Dimensions

35.79 x 23.97 x 2.25 cm;

Packed: 6.9 x 52 x 30.5 cm

Dimension Note: Dimensions vary by configuration

#### Warranty

1 year limited parts, labour, and pickup and return service; You can expand the warranty coverage of your product to reach up to 3 years in total; for more information go to the "Options and accessories" web section on hp.com product pages.

#### Keyboard

Full-size, 4-zone RGB backlit, shadow black keyboard with 26-Key Rollover Anti-Ghosting Key technology

Touchpad with multi-touch gesture support; Precision Touchpad Support

#### Features

Support NVIDIA® G-SYNC® technology

#### Security management

Fingerprint reader not available

#### Sensors

IR Thermal sensor

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## Recommended accessories

\* Not included.



OMEN by HP Mindframe Prime Headset  
6MF35AA



OMEN Transceptor 17 Duffel Bag  
7MT82AA



OMEN by HP Reactor Mouse  
7ZF19AA



3-year pickup and return  
UM963E

## Warranty services\*

## Key Selling Points Footnotes

## Feature Messaging Footnotes

- <sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.
- <sup>2</sup> Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance. Internet service required and not included. 4K content required to view full 4K images. Graphics output may be limited based on the maximum resolution of the display
- <sup>3</sup> Full high-definition (FHD) content is required to view FHD images.
- <sup>4</sup> Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported. Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where the Wi-Fi 6 (802.11ax) will be disabled and downgraded to 802.11ac by the Intel's DRS solution.
- <sup>5</sup> Internet service required and not included. Subscription required after the 12 month.
- <sup>14</sup> Recharges your battery up to 50% within 45 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 50% capacity, charging will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products. See <http://store.hp.com> for a full list of product features.
- <sup>15</sup> Thermal solution varies by configuration.
- <sup>16</sup> Listening to personal stereo equipment at full volume for long periods can damage the user's hearing. To reduce the risk of hearing damage, lower the volume and amount of time listening at full volume.

## Technical Specifications Footnotes

- <sup>1</sup> New Dropbox users are eligible to get 25 GB of Dropbox space free for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at <https://www.dropbox.com/help/space/hp-promotion>. Internet service required and not included.
- <sup>2</sup> Free 30 day subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration.
- <sup>3</sup> Windows 10 MobileMark 18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <https://bapco.com/products/mobilemark-2018/> for additional details.
- <sup>5</sup> Recharges your battery up to 50% within 45 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products. See <http://store.hp.com> for a full list of product features.
- <sup>6</sup> Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- <sup>7</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.
- <sup>8</sup> NVIDIA® Max-Q Design can help reduce system heat and noise in thinner form factor PCs. Form factor design and thickness of the system will vary. Overall graphics performance may be lower than alternative graphics solutions that do not utilize Max-Q design.
- <sup>10</sup> Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system audio level at 17%, player audio level at 100%, played full-screen from local storage, headphone attached, wireless on but not connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.
- <sup>11</sup> Wi-Fi® supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160 MHz channels.
- <sup>12</sup> Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
- <sup>13</sup> Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported.
- <sup>16</sup> Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).
- <sup>17</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- <sup>18</sup> Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.
- <sup>22</sup> Reverting to LastPass basic after 30 days.
- <sup>24</sup> Must activate within 180 days of Windows activation.

