# OMEN by HP Laptop 17-ck0020nr







# Don't bring your desk, this'll be

Powerful gaming anywhere.



### **Product overview**

- Don't leave your best performance at home: Take your gaming anywhere. With powerful NVIDIA® GeForce RTX™ graphics, an 11th generation Intel® Core™ processor and supercooled by the OMEN Tempest Cooling, this laptop will take off.
- Bigger Picture. Smaller Package. All Game. The 17.3 diagonal inch design with high resolution, fast frames and optical mechanical keyboard bring all of the comforts of playing at home, to go. Don't worry about taking it places, it comes with great battery life so it never slows you down.

  One Place. All Play. OMEN Gaming Hub is your one-stop shop to elevating your play. From getting rewards
- just by gaming, to controlling every little performance and lighting option of your machine, the list goes on. Every game, every play, every moment is now in your control.

### **Key specifications**

- Operating system: Windows 10 Home<sup>(1)</sup>
- Processor: 11th Generation Intel® Core™ i7-11800H(2b)
- Display: 17.3-inch diagonal, QHD (2560 x 1440), 165 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB<sup>(20)</sup>

- Memory: 16 GB DDR4-3200 MHz RAM (2 x 8 GB)
   Internal storage: 512 GB PCle® NVMe™ M.2 SSD<sup>(15)(58a)</sup>
   Graphics: NVIDIA® GeForce RTX™ 3070 Laptop GPU (8 GB GDDR6 dedicated)<sup>(13)</sup>
- **Sound:** Audio by Bang & Olufsen with dual speakers
- Batterv life:

Up to 5 hours (mixed usage)(85)

Up to 7 hours (video playback)(75)

Up to 5 hours and 45 minutes (wireless streaming)(80)

- Wireless: Intel® Wi-Fi CERTIFIED 6™ AX201 (2x2)<sup>(19e)</sup> and Bluetooth® 5 combo<sup>(26)</sup> (Supporting Gigabit data rate)(7)
- Camera: HP Wide Vision 720p HD camera with integrated dual array digital microphones (89)
- Product weight: 6.15 lb<sup>(76)</sup>
- Keyboard: Full-size, per key RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting Key technology

### **Product features**

- Windows 10 Home: Do great things confidently with the familiar feel of Windows only better. (1)
- 11th Generation Intel® Core™ processor: Brings the perfect combination of features to make you unstoppable. Get things done fast with high performance, instant responsiveness and best-in-class
- The Ultimate Play: The GeForce RTX™ 3070 is powered by Ampere—NVIDIA's 2nd gen RTX architecture. Built with enhanced RT Cores and Tensor Cores, new streaming multiprocessors, and high-speed G6 memory, it gives you the power you need to rip through the most demanding games.
- 165Hz QHD anti-glare display: Reduce frustrating lag and image ghosting with a display that combines a 65Hz refresh rate and 2560 x 1440 resolution for smooth, crisp gameplay. (20)(
- Flicker-free: Using DC Dimming technology that controls brightness by adjusting direct current rather than cycling the backlight, we can eliminate screen flickering for more comfortable viewing.
- Eyesafe® Certified Display: Eyesafe® certified displays meet TÜV low blue light requirements and Eyesafe® standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.
- HP Fast Charge: Go from 0 to 50% charge in approximately 30 minutes. (72)
- Effortlessly connected: Enjoy a smoother wireless experience with Wi-Fi CERTIFIED 6™ (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5. (19e)(19f
- HP Wide Vision HD Camera: The 88-degree, wide-angle field of view lets you video chat with the entire family or group of friends in crystal clear detail.<sup>(89)</sup>

### **Additional product features**

- Thunderbolt™ 4 with USB 4™ Type-C®: The latest Thunderbolt™ solution lets you power your device or connect up to two 4K displays with a single cable and blazing 40Gbps signaling rate.
- PCIe® NVMe™ SSD storage: Get up to 30x faster performance than a traditional hard drive. (58a)
- An exceptionally rich audio experience: HP Dual Speakers. HP Audio Boost, and expert tuning by Bang & Olufsen bring audio perfection to your PC
- **DDR4-3200:** With its higher bandwidth, everything from multi-tasking to playing games gets a performance
- Per-Key RGB Keyboard: This full-size keyboard is precision-designed for competitive gameplay. RGB per-key
- LED backlighting customization and N-key rollover anti-ghosting technology to never miss a key. **OMEN Tempest Cooling Technology:** Stay cool under pressure with the advanced laptop thermal solution. 3sided venting and 5-way airflow ensure optimal system stability and performance when gameplay heats up.

- Sleek design: Easily take this thin and light PC from room to room or on the road. When your PC goes wherever you go, staying productive and entertained has never been easier
- Floating glass display: The ultra-thin display, perfectly balanced on the nearly invisible stand, creates the
- Hidden coaxial hinge: Drawing inspiration from high-end cabinetry, the hidden coaxial hinge was designed to fold flush, almost disappearing from view
- Micro-edge display: See more of your screen with a micro-edge display that maximizes your viewing area.

### Created with the planet in mind

HP is dedicated to driving progress toward a more sustainable future and making responsible choices for the environment and our customers. We are innovating new ways to reduce the amount of materials in our products and packaging—and to use more recycled materials in their design. Together we can make a difference.

- · Built with the environment in mind, this laptop is designed using sustainable materials like
- Ocean-bound plastic in the speaker enclosure<sup>(63c)</sup>
  Keycaps made from post-consumer recycled plastic<sup>(63b)</sup>
- Keyboard deck and hinge caps made from recycled aluminum(63d)
- HP's outer boxes and fiber cushions used in packaging are 100% sustainably sourced and recyclable. (63e)

### **Warranty and support**

Our Customer Support Team consistently provides guick, responsive assistance in the U.S., Canada and Latin

### Included with your product:

- HP's Hardware Limited Warranty: Full warranty details are included with your product.
- · Technical Support for Software & initial set-up: Warranty details are included with your product Support Options:
- HP Support Assistant HPSA: Optimized to enhance your support experience. Help for your PC and HP printers whenever vou need it.<sup>(5</sup>
- Online Support: For technical support with this product, visit HP Customer Support http://support.hp.com. (9)
- Social Media Support: To find solutions, ask questions, and share tips, join us on the HP Support Community at community.hp.com, on Twitter at twitter.com/HPSupport, and Facebook at facebook.com/HPSupport.<sup>(9)</sup>

- SmartFriend, part of HP Care: Experts are available 24/7 to handle any tech issue, on any device, from any brand. Visit www.hp.com/go/smartfriend to learn more or call toll-free 1-844-814-1800 to get started. (95)
- Care Packs, part of HP Care: Extend protection beyond the standard limited warranty. For more info, visit www.hp.com/go/carepack-services or call toll-free at 1-877-232-8009. (83

















### **Specifications**

Operating system	Windows 10 Home <sup>(1)</sup>
Processor	11th Generation Intel® Core™ i7-11800H <sup>(2b)</sup> 8-Core
Processor speed	Up to 4.6 GHz with Intel® Turbo Boost Technology <sup>(2g)</sup>
Processor cache	• 24 MB L3 cache
Memory	16 GB DDR4-3200 MHz RAM (2 x 8 GB)
Accessible memory slots	• 2
Video graphics	NVIDIA® GeForce RTX™ 3070 Laptop GPU (8 GB GDDR6 dedicated) <sup>(13)</sup>
Internal storage	512 GB PCle® NVMe™ M.2 SSD <sup>(15)(58a)</sup>
Finish and features	Top cover: Shadow black Keyboard deck: Shadow black aluminum with a sandblasted finish
Camera	HP Wide Vision 720p HD camera with integrated dual array digital microphones <sup>(89)</sup>
Display	<ul> <li>17.3-inch diagonal, QHD (2560 x 1440), 165 Hz, 3 ms response time, IPS, micro-edge, anti- glare, Low Blue Light, 300 nits, 100% sRGB<sup>(20)(37)</sup></li> </ul>
Screen to body ratio	• 84.6% <sup>(40)</sup>
Network card	Integrated 10/100/1000 GbE LAN <sup>(29)</sup>
Wireless connectivity	Intel® Wi-Fi CERTIFIED 6™ AX201 (2x2) <sup>(19e)</sup> and Bluetooth® 5 combo <sup>(2e)</sup> (Supporting Gigabit data rate) <sup>(7)</sup> MU-MIMO supported
Digital media	1 Multi-format SD media card reader
Sound	Audio by Bang & Olufsen with dual speakers
Integrated keyboard	Full-size, per key RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting Key technology     HP Imagepad with multi-touch gesture support
External notebook ports	1 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (DisplayPort™ 1.4, HP Sleep and Charge) <sup>(42/SQMS) USSM(64)</sup> 1 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge) <sup>(64)</sup> 2 SuperSpeed USB Type-A 5Gbps signaling rate     1 RJ-45     1 Headphone/microphone combo (DTS: X® Ultra) <sup>(47)</sup> 1 AC Smart pin     1 Mini DisplayPort™     1 HDMI 2.1
Dimensions	<ul> <li>Unpackaged: 15.64 in (W) x 10.32 in (D) x 1.06 in (H)</li> <li>Packaged: 24.57 in (L) x 2.72 in (W) x 13.58 in (H)</li> </ul>
Weight	• Unpackaged: 6.15 lb <sup>(76)</sup> • Packaged: 12.03 lb
Power	6-cell, 83 Wh Li-ion polymer <sup>(21)</sup> 330 W Smart AC power adapter
Battery life	Up to 5 hours (mixed usage) <sup>(85)</sup> Up to 7 hours (video playback) <sup>(75)</sup> Up to 5 hours and 45 minutes (wireless streaming) <sup>(80)</sup>
Warranty and support	1-year limited hardware warranty. Additional information available at www.support.hp.com <sup>(9)</sup> 1-year limited technical support for software and initial setup (from date of purchase) <sup>(53)</sup>

### Software

### **HP Help and support**

- myHP: myHP provides a simple setup and registration experience that welcomes you to your new HP PC. Customize, optimize, and secure your device with tips and tricks and easy-to-access settings, and receive helpful messages and information to keep things running smoothly.
- HP BIOS Protection: Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself. <sup>(23)</sup>
- HP Support Assistant: Included with your computer, this free self-help tool makes it easier than ever to get help with your HP PC and printers.<sup>(56)</sup>

### Books, music, photos and videos

 DTS: X<sup>o</sup> 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>477</sup>

## Productivity and tools

- Adaptive Battery Optimizer: Protect battery health and bring peace of mind for uninterrupted productivity and entertainment with automatic checks on battery temperature, charging status, and usage time
- HP Audio Switch: Easily switch between speaker and microphone sources with intuitive controls
   and a consistent and proprietable and p
- and a consistent app experience.

   HP Connection Optimizer: Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points. (9)
- HP QuickDrop: Wirelessly transfer photos, videos, documents and more between your PC and
  mobile device. Easily snap a photo to share, send addresses for directions on-the-go, and view
  texts on your PC's screen. With HP QuickDrop, file transfers are easy, fast and reliable.<sup>90</sup>
- OMEN Gaming Hub: Your one place for everything to make your gaming experience better From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in an easy and simple way.
- Dropbox cloud storage: Store and synchronize your content online with Dropbox. Get 100GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access.<sup>(9)C2)</sup>

## Security and protection

McAfee LiveSafe™: Protect your operating system with a free 30-day McAfee LiveSafe™ triaL<sup>(8)</sup>

### **Additional Information**

Additional information		
Product number	• 3VOLOUA#ABA	
Ad embargo date	• 08/01/2021	
UPC Code	• 195908471394	
Country of origin	• China	
Pallet information	<ul> <li>Dimensions: 46.18 in (L) x 38.03 in (W) x 45.84 in (H)</li> <li>Total weight: 970.0 lb</li> <li>Layers: 3</li> <li>Products per layer: 26</li> </ul>	
Battery regulatory data	Transportation or storage regulations: Y UNB and proper shipping name: UN3481 - Lithium ion batteries packed with equipment Number of batteries: Primary battery regulated material: 315g Primary battery watt hours: 83 Applicable CPSC regulations: N	

### Learn more at hp.com

functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See microsoft.com (2b) 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. Intel, Pentium, Intel Core, Celeron, Iris Xe, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. Day Intel<sup>®</sup> Turbo Boost performance varies depending on hardware, software and overall system configuration. See intel.com/technology/turboboost for more information. GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance. (7) Wi-Fi 5 or 6 is designed to support Gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MH2 and higher channels. (8) Internet access required and not included. Subscription required after 30 days trial period. McAfee, LiveSafe and the McAfee logo are trademarks or registered trademarks of McAfee, inc. in the United States and other countries. (9) Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. (13) @2021 NVIDIA Corporation. NVIDIA, the NVIDIA logo, GeForce, and GeForce RTX are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. (8) Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. 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(190 Based on Wi-Fi 5 80MHz and Wi-Fi 6 160MHz minimum requirements when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported. (20) All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. (21) Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors. (22) 100GB of free online storage for one year from date of registration. For complete details and terms of use including cancellation policies, visit the website at dropbox.com. Internet service required and not included. (23) HP BIOS Protection works with Windows 10 that ships with your PC. (26) Bluetooth® is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. (29) Actual speeds may vary. (37) 4K content required to view 4K images. (38) Quad High-definition (QHD) content required to view QHD images. (40) Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk. (42) USB Type-C® and USB-C® are trademarks of USB Implementers Forum. (43) Actual throughput may vary (47) 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 60 DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. (61) Thunderbolt is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries. (53) Call 1.800.474.6836 or support.hp.com for more information on Care Packs available after standard warranty expires. After standard warranty expires, an incident fee may apply. (56) For more information visit hp.com/go/hpsupportassistant. (Link will vary outside of the U.S.) HP Support Assistant is only available on Windows-based PCs. Internet connection required for updating and connecting to HP Support. (58a) Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD. (59) SuperSpeed USB 20Gbps is not available. (63b) Keyboard keycaps contain post-consumer recycled plastic. Percentage contained in each component varies by product. (63d) Percentage of ocean-bound plastic contained in each component varies by product. (63d) Laptops manufactured with recycled aluminum material in product cover. Percent of recycled aluminum varies by product. (63d) 00% outer box/corrugate cushion packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Excludes plastic bags and plastic foam sheeting. (64) For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device. (72) Recharges your battery up to 50% within 30 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. (75) 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. (76) Weight and system dimensions may fluctuate due to configuration and manufacturing variances. (80) Battery life tested by HP using continuous Netflix video playback, Windows 10 Netflix app, 150 nits brightness, system audio level 17%, headphone attached, played full-screen, wireless on. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. (83) Service levels and response times for Care Packs may vary depending on your geographic location. Restrictions and limitations apply. Service starts at date of hardware purchase. HP Care Packs are sold separately. For details, visit hp.com/go/carepack-services. (85) 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 bapco.com/products/mobilemark-2018/ for additional details. (189) Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. (95) HP SmartFriend will support any major brand of computer and tablet running Microsoft Windows, OSX, iOS, Android, and Chrome OS. 24x7 support is available in English and in the US & Canada (excluding the Province of Quebec) only. Service availability varies by country/region. Internet connection required for remote support. Remote support not available for tablets. Not all service plans cover support for tablets. HP SmartFriend sold separately or as an add-on feature. 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(1) 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

