

## ASUS Vivobook 16X OLED (K3605)

Overview :

13th Gen Intel Overview

Laptop-OLED

Tech Specs

Review

Support

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Model	K3605ZV	K3605ZU	K3605ZC	K3605ZF
Color	Cool Silver Indie Black	Indie Black Cool Silver	Indie Black Cool Silver	Cool Silver Indie Black
Operating System	Windows 11 Home - ASUS recommends Windows 11 Pro for business No preinstalled OS	Windows 11 Home - ASUS recommends Windows 11 Pro for business No preinstalled OS	Windows 11 Home - ASUS recommends Windows 11 Pro for business Windows 11 Pro - ASUS recommends Windows 11 Pro for business No preinstalled OS	Windows 11 Home - ASUS recommends Windows 11 Pro for business No preinstalled OS Keep OS Windows 11 Pro - ASUS recommends Windows 11 Pro for business
Processor	Intel® Core™ i7-12700H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 6P+8E cores) Intel®Core™ i7-12650H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 10 cores) Intel® Core™ i5-12500H Processor 2.5 GHz (18M Cache, up to 4.5 GHz, 4P+8E cores) Intel®Core™ i5-12450H Processor 2.0 GHz (12M Cache, up to 4.4 GHz, 8 cores)	Intel® Core™ i7-12700H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 6P+8E cores) Intel®Core™ i7-12650H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 10 cores) Intel® Core™ i5-12500H Processor 2.5 GHz (18M Cache, up to 4.5 GHz, 4P+8E cores) Intel®Core™ i5-12450H Processor 2.0 GHz (12M Cache, up to 4.4 GHz, 8 cores)	Intel® Core™ i7-12700H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 6P+8E cores) Intel®Core™ i5-12450H Processor 2.0 GHz (12M Cache, up to 4.4 GHz, 8 cores) Intel®Core™ i7-12650H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 10 cores) Intel® Core™ i5-12500H Processor 2.5 GHz (18M Cache, up to 4.5 GHz, 4P+8E cores)	Intel® Core™ i7-12700H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 6P+8E cores) Intel®Core™ i5-12450H Processor 2.0 GHz (12M Cache, up to 4.4 GHz, 8 cores) Intel®Core™ i7-12650H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 10 cores) Intel® Core™ i5-12500H Processor 2.5 GHz (18M Cache, up to 4.5 GHz, 4P+8E cores)
Graphics	NVIDIA® GeForce RTX™ 4060 Laptop GPU 8GB GDDR6 Intel® UHD Graphics *Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.	NVIDIA® GeForce RTX™ 4050 Laptop GPU 6GB GDDR6 Intel® UHD Graphics *Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.	NVIDIA® Geforce RTX™ 3050 4GB Laptop GPU 4GB GDDR6 Intel® UHD Graphics	NVIDIA® GeForce® RTX™ 2050 4GB GDDR6 Intel® UHD Graphics
Display	16.0-inch, 3.2K (3200 x 2000) OLED 16:10 aspect ratio, 0.2ms response time, 120Hz refresh rate, 400nits, 600nits HDR peak brightness, 100% DCI-P3 color gamut, 1,000,000:1, VESA CERTIFIED Display HDR True Black 600, 1.07 billion colors, PANTONE Validated, Glossy display, 70% less harmful blue light, TÜV Rheinland-certified, SGS Eye Care Display, Non-touch screen, (Screen-to-body ratio)85% 16.0-inch, WQXGA (2560 x 1600) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 144Hz refresh rate, 400nits, 100% sRGB color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)85% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 120Hz refresh rate, 300nits, 100% sRGB color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)85% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)85%	16.0-inch, 3.2K (3200 x 2000) OLED 16:10 aspect ratio, 0.2ms response time, 120Hz refresh rate, 400nits, 600nits HDR peak brightness, 100% DCI-P3 color gamut, 1,000,000:1, VESA CERTIFIED Display HDR True Black 600, 1.07 billion colors, PANTONE Validated, Glossy display, 70% less harmful blue light, TÜV Rheinland-certified, SGS Eye Care Display, Non-touch screen, (Screen-to-body ratio)85% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)85% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 120Hz refresh rate, 300nits, 100% sRGB color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)85% 16.0-inch, WQXGA (2560 x 1600) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 144Hz refresh rate, 400nits, 100% sRGB color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)85%	16.0-inch, 3.2K (3200 x 2000) OLED 16:10 aspect ratio, 0.2ms response time, 120Hz refresh rate, 400nits, 550nits HDR peak brightness, 100% DCI-P3 color gamut, 1,000,000:1, VESA CERTIFIED Display HDR True Black 500, 1.07 billion colors, PANTONE Validated, Glossy display, 70% less harmful blue light, TÜV Rheinland-certified, SGS Eye Care Display, Non-touch screen, (Screen-to-body ratio)86% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 120Hz refresh rate, 300nits, 100% sRGB color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86% 16.0-inch, WQXGA (2560 x 1600) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 144Hz refresh rate, 400nits, 100% DCI-P3 color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86%	16.0-inch, 3.2K (3200 x 2000) OLED 16:10 aspect ratio, 0.2ms response time, 120Hz refresh rate, 400nits, 550nits HDR peak brightness, 100% DCI-P3 color gamut, 1,000,000:1, VESA CERTIFIED Display HDR True Black 500, 1.07 billion colors, PANTONE Validated, Glossy display, 70% less harmful blue light, TÜV Rheinland-certified, SGS Eye Care Display, Non-touch screen, (Screen-to-body ratio)86% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 120Hz refresh rate, 300nits, 100% sRGB color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86% 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86% 16.0-inch, WQXGA (2560 x 1600) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 144Hz refresh rate, 400nits, 100% DCI-P3 color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86%
Memory	16GB DDR4 on board 16GB DDR4 SO-DIMM Max Total system memory up to:32GB *Dual-channel memory support requires at least one SO-DIMM module. 16GB DDR4 on board Max Total system memory up to:32GB *Dual-channel memory	16GB DDR4 on board 16GB DDR4 SO-DIMM Max Total system memory up to:32GB *Dual-channel memory support requires at least one SO-DIMM module. 16GB DDR4 on board Max Total system memory up to:32GB *Dual-channel memory	8GB DDR4 on board 8GB DDR4 SO-DIMM Max Total system memory up to:16GB *Dual-channel memory support requires at least one SO-DIMM module. 8GB DDR4 on board Max Total system memory up to:16GB *Dual-channel memory	8GB DDR4 on board 8GB DDR4 SO-DIMM Max Total system memory up to:16GB *Dual-channel memory support requires at least one SO-DIMM module. 8GB DDR4 on board Max Total system memory up to:16GB *Dual-channel memory

	support requires at least one SO-DIMM module.	support requires at least one SO-DIMM module.	support requires at least one SO-DIMM module.	support requires at least one SO-DIMM module.
<b>Storage</b>	1TB M.2 NVMe™ PCIe® 3.0 SSD 1TB M.2 NVMe™ PCIe® 4.0 SSD 512GB M.2 NVMe™ PCIe® 4.0 SSD	1TB M.2 NVMe™ PCIe® 3.0 SSD 512GB M.2 NVMe™ PCIe® 4.0 SSD 1TB M.2 NVMe™ PCIe® 4.0 SSD	1TB M.2 NVMe™ PCIe® 3.0 SSD 512GB M.2 NVMe™ PCIe® 3.0 SSD 512GB M.2 NVMe™ PCIe® 4.0 SSD	1TB M.2 NVMe™ PCIe® 3.0 SSD 512GB M.2 NVMe™ PCIe® 3.0 SSD 512GB M.2 NVMe™ PCIe® 4.0 SSD 256GB M.2 NVMe™ PCIe® 4.0 SSD
<b>Expansion Slots (includes used)</b>	1x DDR4 SO-DIMM slot	1x DDR4 SO-DIMM slot	1x DDR4 SO-DIMM slot	1x DDR4 SO-DIMM slot
<b>I/O Ports</b>	2x USB 3.2 Gen 1 Type-A 1x Thunderbolt™ 4 supports display / power delivery 1x HDMI 2.1 TMDS 1x 3.5mm Combo Audio Jack 1x DC-in SD 4.0 card reader	2x USB 3.2 Gen 1 Type-A 1x Thunderbolt™ 4 supports display / power delivery 1x HDMI 2.1 TMDS 1x 3.5mm Combo Audio Jack 1x DC-in SD 4.0 card reader	1x USB 3.2 Gen 1 Type-C support power delivery 2x USB 3.2 Gen 1 Type-A 1x HDMI 2.1 TMDS 1x 3.5mm Combo Audio Jack 1x DC-in SD 4.0 card reader	1x USB 3.2 Gen 1 Type-C support power delivery 2x USB 3.2 Gen 1 Type-A 1x HDMI 2.1 TMDS 1x 3.5mm Combo Audio Jack 1x DC-in SD 4.0 card reader
<b>Keyboard &amp; Touchpad</b>	Backlit Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad	Backlit Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad	Backlit Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad	Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad Backlit Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad
<b>Camera</b>	720p HD camera With privacy shutter	720p HD camera With privacy shutter	720p HD camera With privacy shutter	720p HD camera With privacy shutter
<b>Audio</b>	SonicMaster Built-in speaker Built-in array microphone with Cortana support	SonicMaster Built-in speaker Built-in array microphone with Cortana support	SonicMaster Built-in speaker Built-in array microphone with Cortana support	SonicMaster Built-in speaker Built-in array microphone with Cortana support
<b>Network and Communication</b>	Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.) Wi-Fi 6E(802.11ax) (Dual band) 1*1 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.) Wi-Fi 6E(802.11ax) (Dual band) 1*1 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.) Wi-Fi 6E(802.11ax) (Dual band) 1*1 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.) Wi-Fi 6E(802.11ax) (Dual band) 1*1 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)
<b>Battery</b>	70WHrs, 3S1P, 3-cell Li-ion	70WHrs, 3S1P, 3-cell Li-ion	63WHrs, 3S1P, 3-cell Li-ion 50WHrs, 3S1P, 3-cell Li-ion	63WHrs, 3S1P, 3-cell Li-ion 50WHrs, 3S1P, 3-cell Li-ion
<b>Power Supply</b>	ø4.5, 120W AC Adapter, Output: 20V DC, 6A, 120W, Input: 100~240V AC 50/60Hz universal	ø4.5, 120W AC Adapter, Output: 20V DC, 6A, 120W, Input: 100~240V AC 50/60Hz universal	ø4.5, 120W AC Adapter, Output: 20V DC, 6A, 120W, Input: 100~240V AC 50/60Hz universal	ø4.5, 120W AC Adapter, Output: 20V DC, 6A, 120W, Input: 100~240V AC 50/60Hz universal
<b>Weight</b>	1.80 kg (3.97 lbs)	1.80 kg (3.97 lbs)	1.80 kg (3.97 lbs)	1.80 kg (3.97 lbs)
<b>Dimensions (W x D x H)</b>	35.86 x 24.91 x 1.89 ~ 1.89 cm (14.12" x 9.81" x 0.74" ~ 0.74")	35.86 x 24.91 x 1.89 ~ 1.89 cm (14.12" x 9.81" x 0.74" ~ 0.74")	35.86 x 24.91 x 1.89 ~ 1.89 cm (14.12" x 9.81" x 0.74" ~ 0.74")	35.86 x 24.91 x 1.89 ~ 1.89 cm (14.12" x 9.81" x 0.74" ~ 0.74")
<b>Built-in Apps</b>	MyASUS ProArt Creator Hub ScreenXpert GlideX	MyASUS ProArt Creator Hub ScreenXpert GlideX	MyASUS ProArt Creator Hub ScreenXpert GlideX	MyASUS ProArt Creator Hub ScreenXpert GlideX
<b>MyASUS Features</b>	System diagnosis Battery health charging Fan Profile Splendid Tru2Life Function key lock WiFi SmartConnect Link to MyASUS TaskFirst Live update ASUS OLED Care AI Noise Canceling	System diagnosis Battery health charging Fan Profile Splendid Tru2Life Function key lock WiFi SmartConnect Link to MyASUS TaskFirst Live update ASUS OLED Care AI Noise Canceling	System diagnosis Battery health charging Fan Profile Splendid Tru2Life Function key lock WiFi SmartConnect Link to MyASUS TaskFirst Live update ASUS OLED Care AI Noise Canceling	System diagnosis Battery health charging Fan Profile Splendid Tru2Life Function key lock WiFi SmartConnect Link to MyASUS TaskFirst Live update ASUS OLED Care AI Noise Canceling
<b>ASUS Exclusive technology</b>	ASUS Antimicrobial Guard	ASUS Antimicrobial Guard	ASUS Antimicrobial Guard	ASUS Antimicrobial Guard



<b>Microsoft Office</b>	Microsoft 365 Personal 1-year included Microsoft Office Home & Student 2021 1-month trial for new Microsoft 365 customers. Credit card required. WPS Office Standard Edition (With license for 3 products)	Microsoft 365 Personal 1-year included 1-month trial for new Microsoft 365 customers. Credit card required. WPS Office Standard Edition (With license for 3 products) Microsoft Office Home & Student 2021 Microsoft Office Home & Business 2021	1-month trial for new Microsoft 365 customers. Credit card required. Microsoft Office Home & Student 2021 WPS Office Standard Edition (With license for 3 products) Microsoft 365 Personal 1-year included Microsoft Office Home & Business 2021	Microsoft 365 Personal 1-year included 1-month trial for new Microsoft 365 customers. Credit card required. Microsoft Office Home & Student 2021 WPS Office Standard Edition (With license for 3 products) Microsoft Office Home & Business 2021
<b>Military Grade</b>	US MIL-STD 810H military-grade standard	US MIL-STD 810H military-grade standard	US MIL-STD 810H military-grade standard	US MIL-STD 810H military-grade standard
<b>Ecolabels &amp; Compliances</b>	EPEAT Silver Energy star 8.0 RoHS REACH	EPEAT Silver Energy star 8.0 RoHS REACH	EPEAT Silver Energy star 8.0 RoHS REACH	EPEAT Silver Energy star 8.0 RoHS REACH
<b>Security</b>	BIOS Booting User Password Protection Trusted Platform Module (Firmware TPM) McAfee® Fingerprint sensor integrated with Touchpad	BIOS Booting User Password Protection Trusted Platform Module (Firmware TPM) McAfee® Fingerprint sensor integrated with Touchpad	BIOS Booting User Password Protection Trusted Platform Module (Firmware TPM) McAfee® Fingerprint sensor integrated with Touchpad	BIOS Booting User Password Protection Trusted Platform Module (Firmware TPM) McAfee® Fingerprint sensor integrated with Touchpad
<b>Included in the Box</b>	Wired optical mouse (USB) Backpack * Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.	Wired optical mouse (USB) Backpack * Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.	Wired optical mouse (USB) Backpack * Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.	Wired optical mouse (USB) Backpack * Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.
<b>Disclaimer</b>	This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.	This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.	This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.	This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.
<b>OLED</b>	OLED	OLED	OLED	OLED



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\*The Windows 11 upgrade will be delivered to qualifying devices late 2021 into 2022. Timing will vary by device. Certain features require specific hardware (see aka.ms/windows11-spec). †The Windows 11 upgrade will be delivered to qualifying devices late 2021 into 2022. Timing will vary by device. Certain features require specific hardware (see aka.ms/windows11-spec).\*

IPS stands for in-plane switching, a type of LED (a form of LCD) display panel technology.

Unless otherwise stated, all performance claims are based on theoretical performance. Actual figures may vary in real-world situations.

The actual transfer speed of USB 3.0, 3.1, 3.2, and/or Type-C will vary depending on many factors including the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment.

Ultrabook, Celeron, Celeron Inside, Core Inside, Intel, Intel Logo, Intel Atom, Intel Atom Inside, Intel Core, Intel Inside, Intel Inside Logo, Intel vPro, Itanium, Itanium Inside, Pentium, Pentium Inside, vPro Inside, Xeon, Xeon Phi, and Xeon Inside are trade marks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

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- Price may not include extra fee, including tax · shipping · handling · recycling fee.
- For pricing information, ASUS is only entitled to set a recommendation resale price. All resellers are free to set their own price as they wish.
- WiFi 6E availability may vary by country and their specific regulations. Feature only supported by Windows 11 or later.

\* Result from Mobile Mark 2014 office productivity.

**ASUS** Laptops For Home Vivobook ASUS Vivobook 16X OLED (K3605)

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