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ASUS Vivobook S 16 OLED M5606WA-MX022X AMD Ryzen AI 9 370 Laptop 40,6 cm (16") 3.2K 32 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Black

Brand : ASUS

Product family: Vivobook

Article code: 90NB14B2-M001Z0

Product name : M5606WA-MX022X

ASUS Vivobook S 16 OLED M5606WA-MX022X. Product type: Laptop, Form factor: Clamshell. Processor family: AMD Ryzen AI 9, Processor model: 370, Processor frequency: 2 GHz. Display diagonal: 40,6 cm (16"), HD type: 3.2K, Display resolution: 3200 x 2000 pixels. Internal memory: 32 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: AMD Radeon 890M. Operating system installed: Windows 11 Pro. Product color: Black

Design

Colour name	Neutral Black
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Housing material	Aluminium
Market positioning	Home
Introduction year	2024

Display

Display diagonal *	40.6 cm (16")
Display resolution *	3200 x 2000 pixels
Touchscreen *	✘
HD type	3.2K
Panel type	OLED
Native aspect ratio	16:10
Display surface	Gloss
Display brightness	400 cd/m²
Maximum display brightness (HDR)	600 cd/m²
RGB colour space	DCI-P3
Colour gamut	100%
Display response rise/fall	0.2 ms
Maximum refresh rate	120 Hz
Display number of colours	1.073 billion colours
Contrast ratio (typical)	1000000:1
High Dynamic Range (HDR) supported	✔
High Dynamic Range (HDR) technology	HDR True Black 500

Processor

Processor manufacturer *	AMD
Processor family *	AMD Ryzen AI 9
Processor generation	AMD Ryzen AI 300
Processor model *	370
Processor cores	12
Processor threads	24
Processor boost frequency	5.1 GHz
Processor frequency *	2 GHz

Audio

Audio system	Smart Amp
Built-in microphone	✔

Camera

Front camera	✔
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Infrared (IR) camera	✔
Privacy camera	✔
Privacy type	Privacy shutter

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Antenna type	2x2
Ethernet LAN	✘
Bluetooth	✔
Bluetooth version	5.3

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
USB4 Gen 3x2 ports quantity	1
HDMI ports quantity *	1
HDMI version	2.1
Combo headphone/mic port	✔
Charging port type	USB Type-C
USB Type-C DisplayPort Alternate Mode	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔

Processor

Processor cache	24 MB
Processor cache type	L3

Neural processor unit (NPU)

Neural processor unit (NPU)	AMD Ryzen AI
Total processor performance up to	80 TOPs
NPU performance up to	50 TOPs

Memory

Internal memory *	32 GB
Internal memory type	LPDDR5x-SDRAM
Memory form factor	On-board
Maximum internal memory *	32 GB
Memory channels	Dual-channel

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
On-board GPU manufacturer	AMD
Discrete graphics card *	✘
On-board graphics card model *	AMD Radeon 890M

Keyboard

Keyboard backlit colour	RGB
Keyboard backlit zone	1-zone RGB

Software

Operating system architecture	64-bit
Trial software	1-month trial for new Microsoft 365 customers. Credit card required.
Operating system installed *	Windows 11 Pro

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity *	75 Wh

Power

AC adapter power	90 W
AC adapter frequency	50 -60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	4.5 A
AC adapter output voltage	20 V
USB Type-C charging port *	✔
USB Power Delivery (USB PD) *	✔

Security

Cable lock slot	✔
Face recognition	✔
Windows Hello	✔
Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	BIOS, User

Certificates

Compliance certificates	REACH

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	353.6 mm
Depth	246.9 mm
Height (front)	1.39 cm
Height (rear)	1.59 cm
Weight *	1.5 kg

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