

## ASUS Vivobook Pro 15 OLED N6506MV Intel Core Ultra 9 185H Laptop 39,6 cm (15.6") 3K 24 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey



**Brand :** ASUS

**Product family:** Vivobook

**Article code:** 90NB12Y3-M006A0

**Product name :** N6506MV

ASUS Vivobook Pro 15 OLED N6506MV. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 185H. Display diagonal: 39,6 cm (15.6"), HD type: 3K, Display resolution: 2880 x 1620 pixels. Internal memory: 24 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4060. Operating system installed: Windows 11 Pro. Product color: Grey

Design		Graphics	
Colour name	Earl Grey	Discrete graphics card memory	8 GB
Product type *	Laptop	Discrete graphics memory type	GDDR6
Product colour *	Grey	On-board graphics card *	✓
Form factor *	Clamshell	On-board GPU manufacturer	Intel
Display		Discrete graphics card *	✓
Display diagonal *	39.6 cm (15.6")	On-board graphics card family	Intel Arc Graphics
Display resolution *	2880 x 1620 pixels	On-board graphics card model *	Intel Arc Graphics
Touchscreen *	✗	Audio	
HD type	3K	Audio system	Smart Amp
Panel type	OLED	Speakers manufacturer	Harman Kardon
Native aspect ratio	16:9	Built-in microphone	✓
Display surface	Gloss	Camera	
Display brightness	400 cd/m <sup>2</sup>	Front camera	✓
Maximum display brightness (HDR)	600 cd/m <sup>2</sup>	Front camera resolution (numeric)	5 MP
RGB colour space	DCI-P3	Infrared (IR) camera	✓
Colour gamut	100%	Privacy camera	✓
Display response rise/fall	0.2 ms	Privacy type	Privacy shutter
Maximum refresh rate	120 Hz	Network	
Display number of colours	1.073 billion colours	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Contrast ratio (typical)	1000000:1	Wi-Fi standards	Wi-Fi 6E (802.11ax)
High Dynamic Range (HDR) supported	✓	Mobile network connection *	✗
High Dynamic Range (HDR) technology	HDR True Black 600	Antenna type	2x2
Processor		Ethernet LAN	✓
Processor manufacturer *	Intel	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor family *	Intel Core Ultra 9	Bluetooth	✓
Processor generation	Intel® Core™ Ultra (Series 1)	Bluetooth version	5.3
Processor model *	185H	Ports & interfaces	
Processor cores	16	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor threads	22	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor boost frequency	5.1 GHz	Ethernet LAN (RJ-45) ports	1
Performance cores	6	HDMI ports quantity *	1
Efficient cores	8		
Low Power Efficient-cores	2		

Processor		Ports & interfaces	
Performance-core Max Turbo Frequency	5.1 GHz	HDMI version	2.1
Efficient-core Max Turbo Frequency	3.8 GHz	Thunderbolt 4 ports quantity	1
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Intel® Thunderbolt 4	✓
Performance-core base frequency	2.3 GHz	Combo headphone/mic port	✓
Efficient-core base frequency	1.8 GHz	Charging port type	DC-in jack
Low Power Efficient-core Base Frequency	1000 MHz	Power adapter barrel connector	6.0 mm
Processor cache	24 MB	USB Type-C DisplayPort Alternate Mode	✓
Processor cache type	Smart Cache		
Processor base power	45 W		
Maximum turbo power	115 W		
Neural processor unit (NPU)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Repairability index	8.5
Maximum frequency NPU	1.4 GHz		
Sparsity support	✓	Keyboard	
Windows Studio effects support	✓	Pointing device	DialPad
AI datatype support on NPU	FP16, FP32, Int8	Numeric keypad *	✓
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Keyboard backlit	✓
Memory		Software	
Internal memory *	24 GB	Operating system architecture	64-bit
Internal memory type	DDR5-SDRAM	Trial software	McAfee 30 days
Memory form factor	On-board + SO-DIMM	Operating system installed *	Windows 11 Pro
Memory slots	1x SO-DIMM		
Maximum internal memory *	24 GB	Battery	
Storage		Battery technology	Lithium-Ion (Li-Ion)
Total storage capacity *	1 TB	Number of battery cells	4
Storage media *	SSD	Battery capacity *	75 Wh
Total SSDs capacity	1 TB	Power	
Number of SSDs installed	1	AC adapter power	200 W
SSD capacity	1 TB	AC adapter frequency	50 - 60 Hz
SSD interface	PCI Express 4.0	AC adapter input voltage	100 - 240 V
NVMe	✓	AC adapter output current	10 A
SSD form factor	M.2	AC adapter output voltage	20 V
Optical drive type *	✗	USB Power Delivery (USB PD) *	✓
Card reader integrated	✓	Security	
Compatible memory cards	SD	Face recognition	✓
Graphics		Windows Hello	✓
Discrete GPU manufacturer	NVIDIA	Trusted Platform Module (TPM)	✓
Discrete graphics card model *	NVIDIA GeForce RTX 4060	Password protection	✓
		Password protection type	BIOS, User
		Certificates	
		Compliance certificates	REACH
		Sustainability	
		Sustainability compliance	✓
		Sustainability certificates	ENERGY STAR
		Weight & dimensions	
		Width	355.7 mm
		Depth	235.3 mm
		Height	19.9 mm
		Weight *	1.8 kg



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