



DELL Precision 5490 Intel Core Ultra 7 165H Mobile workstation 35.6 cm (14") Full HD+ 32 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA RTX 2000 Ada Wi-Fi 7 (802.11be) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: WX2MV

Product name : 5490

- Windows 11 Pro 64-bit
- Intel Core Ultra 7 165H (24MB Cache)
- 35.6 cm (14") Full HD+ 1920 x 1200 WVA, NVIDIA RTX 2000 Ada (8GB GDDR6)
- 32GB LPDDR5x-SDRAM & 1000GB SSD

Intel Core Ultra 7 165H (24MB Cache), 32GB LPDDR5x-SDRAM, 1000GB SSD, 35.6 cm (14") Full HD+ 1920 x 1200 WVA, Intel Arc Graphics, NVIDIA RTX 2000 Ada (8GB GDDR6), WLAN, Webcam, Windows 11 Pro 64-bit

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Intelligent performance. Outstanding user experience.

The world's smallest and most powerful 14" mobile workstation
DELL Precision 5490. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 165H. Display diagonal: 35.6 cm (14"), HD type: Full HD+, Display resolution: 1920 x 1200 pixels. Internal memory: 32 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics, Discrete graphics card model: NVIDIA RTX 2000 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey



Design		Camera	
Product type *	Mobile workstation	Front camera resolution (numeric)	0.92 MP
Product colour *	Grey	Front camera resolution	1280 x 720 pixels
Form factor *	Clamshell	Front camera HD type	HD
Market positioning	Business	Video capturing speed	30 fps
Intel® vPro™ Platform Eligibility	✓	Infrared (IR) camera	✓
Display		Network	
Display diagonal *	35.6 cm (14")	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Display resolution *	1920 x 1200 pixels	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be)
Touchscreen *	✗	Mobile network connection *	✗
HD type	Full HD+	Antenna type	2x2
Panel type	WVA	WLAN controller model	Intel Wi-Fi 7 BE200
LED backlight	✓	WLAN controller manufacturer	Intel
Native aspect ratio	16:10	Bluetooth	✓
Anti-glare screen	✓	MIMO	✓
Display brightness	500 cd/m ²	MIMO type	Multi User MIMO
Pixel density	161 ppi	Ports & interfaces	
RGB colour space	sRGB	Thunderbolt 4 ports quantity	4
Colour gamut	100%	Intel® Thunderbolt 4	✓
Maximum refresh rate	60 Hz	Combo headphone/mic port	✓
Contrast ratio (typical)	1000:1	Charging port type	USB Type-C
Processor		USB Type-C DisplayPort Alternate Mode	✓
Processor manufacturer *	Intel	USB Power Delivery	✓
Processor family *	Intel Core Ultra 7	Performance	
Processor generation	Intel® Core™ Ultra (Series 1)	Ambient light sensor	✓
Processor model *	165H	Accelerometer	✓
Processor cores	16		
Processor threads	22		
Processor boost frequency	5 GHz		

Processor		Performance	
Performance cores	6	Hall sensor	✓
Efficient cores	8	Keyboard	
Low Power Efficient-cores	2	Pointing device	Touchpad
Performance-core Max Turbo Frequency	5 GHz	Keyboard language	UK English
Efficient-core Max Turbo Frequency	3.8 GHz	Numeric keypad *	✗
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Keyboard backlit	✓
Performance-core base frequency	1.4 GHz	Software	
Efficient-core base frequency	0.9 GHz	Operating system architecture	64-bit
Low Power Efficient-core Base Frequency	700 MHz	Operating system language	German, Dutch, English, French, Italian
Processor cache	24 MB	Trial software	No Microsoft Office Licence Included - 30 day Trial Offer Only
Processor cache type	Smart Cache	Operating system installed *	Windows 11 Pro
Processor base power	28 W	Battery	
Maximum turbo power	115 W	Number of battery cells	4
Neural processor unit (NPU)		Battery capacity *	72 Wh
Neural processor unit (NPU)	Intel AI Boost	Battery voltage	15.4 V
Maximum frequency NPU	1.4 GHz	Battery recharge time	4 h
Sparsity support	✓	Fast charging	✓
Windows Studio effects support	✓	Battery weight	285 g
AI datatype support on NPU	FP16, FP32, Int8	Power	
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	AC adapter power	130 W
Memory		AC adapter frequency	50 - 60 Hz
Internal memory *	32 GB	AC adapter input voltage	100 - 240 V
Internal memory type	LPDDR5x-SDRAM	Security	
Memory form factor	On-board	Cable lock slot	✓
Maximum internal memory *	32 GB	Cable lock slot type	Wedge
Memory channels	Dual-channel	Fingerprint reader	✓
Memory data transfer rate	7467 MT/s	Trusted Platform Module (TPM)	✓
Storage		Trusted Platform Module (TPM) version	2.0
Total storage capacity *	1 TB	Password protection	✓
Storage media *	SSD	Operational conditions	
Total SSDs capacity	1 TB	Operating temperature (T-T)	0 - 35 °C
Number of SSDs installed	1	Storage temperature (T-T)	-40 - 65 °C
SSD capacity	1 TB	Operating relative humidity (H-H)	10 - 90%
SSD interface	PCI Express 4.0	Storage relative humidity (H-H)	0 - 95%
NVMe	✓	Operating altitude	-15.2 - 3048 m
SSD form factor	M.2	Non-operating altitude	-15.2 - 10668 m
SSD performance class	40	Operating shock	110 G
M.2 SSD size	2280 (22 x 80 mm)	Non-operating shock	160 G
Optical drive type *	✗	Operating vibration	0.66 G
Card reader integrated	✓	Non-operating vibration	1.3 G
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Sustainability	
Graphics		Sustainability compliance	✓
Discrete graphics card model *	NVIDIA RTX 2000 Ada	Sustainability certificates	ENERGY STAR, TCO
Discrete graphics card memory	8 GB	Weight & dimensions	
Discrete graphics memory type	GDDR6	Width	310.6 mm
On-board graphics card *	✓	Depth	210.3 mm
On-board GPU manufacturer	Intel	Height (front)	7.49 mm
Discrete graphics card *	✓	Height (rear)	1.9 cm
On-board graphics card family	Intel Arc Graphics	Weight *	1.49 kg
On-board graphics card model *	Intel Arc Graphics	Carbon footprint	
Audio		Total carbon footprint (kg of CO2e)	115
Number of built-in speakers	4	Carbon emissions, manufacturing (kg of CO2e)	87
Speaker power	2 W		
Built-in microphone	✓		

Audio		Carbon footprint	
Number of microphones	2	Carbon emissions, logistics (kg of CO2e)	6
Camera		Carbon emissions, energy usage (kg of CO2e)	20
Front camera	✓	Carbon emissions, end-of-life (kg of CO2e)	2
		Total carbon emissions, w/o use phase (kg of CO2e)	95
		PAIA version	GaBi verison1
		Packaging content	
		Cables included	AC



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