



DELL Precision 5490 Intel Core Ultra 7 165H Mobile workstation 35.6 cm (14") Full HD+ 32 GB LPDDR5x-SDRAM 512 GB SSD NVIDIA RTX 1000 Ada Wi-Fi 7 (802.11be) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: X8G6W

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 1000 Ada (6GB GDDR6)
- 32GB LPDDR5x-SDRAM & 512GB SSD
Intel Core Ultra 7 165H (24MB Cache), 32GB LPDDR5x-SDRAM, 512GB SSD, 35.6 cm (14") Full HD+ 1920 x 1200 WVA, Intel Arc Graphics, NVIDIA RTX 1000 Ada (6GB GDDR6), WLAN, Webcam, Windows 11 Pro 64-bit

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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: 512 GB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics, Discrete graphics card model: NVIDIA RTX 1000 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey



Design		Graphics	
Product type *	Mobile workstation	On-board graphics card family	Intel Arc Graphics
Product colour *	Grey	On-board graphics card model *	Intel Arc Graphics
Form factor *	Clamshell	Audio	
Market positioning	Business	Number of built-in speakers	4
Display		Speaker power	2 W
Display diagonal *	35.6 cm (14")	Built-in microphone	✓
Display resolution *	1920 x 1200 pixels	Number of microphones	2
Touchscreen *	✗	Camera	
HD type	Full HD+	Front camera	✓
Panel type	WVA	Front camera resolution (numeric)	0.92 MP
LED backlight	✓	Front camera resolution	1280 x 720 pixels
Native aspect ratio	16:10	Front camera HD type	HD
Anti-glare screen	✓	Video capturing speed	30 fps
Display brightness	500 cd/m²	Infrared (IR) camera	✓
Pixel density	161 ppi	Network	
RGB colour space	sRGB	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Colour gamut	100%	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)
Maximum refresh rate	60 Hz	Mobile network connection *	✗
Contrast ratio (typical)	1000:1	Antenna type	2x2
Processor		WLAN controller model	Intel Wi-Fi 7 BE200
Processor manufacturer *	Intel	WLAN controller manufacturer	Intel
Processor family *	Intel Core Ultra 7	Bluetooth	✓
Processor generation	Intel® Core™ Ultra (Series 1)	Ports & interfaces	
Processor model *	165H	Thunderbolt 4 ports quantity	4
Processor cores	16	Intel® Thunderbolt 4	✓
Processor threads	22		
Processor boost frequency	5 GHz		
Performance cores	6		

Processor		Ports & interfaces	
Efficient cores	8	Combo headphone/mic port	✓
Low Power Efficient-cores	2	USB Type-C DisplayPort Alternate Mode	✓
Performance-core Max Turbo Frequency	5 GHz	Performance	
Efficient-core Max Turbo Frequency	3.8 GHz	Ambient light sensor	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Accelerometer	✓
Performance-core base frequency	1.4 GHz	Hall sensor	✓
Efficient-core base frequency	0.9 GHz	Keyboard	
Low Power Efficient-core Base Frequency	700 MHz	Pointing device	Touchpad
Processor cache	24 MB	Numeric keypad *	✗
Processor cache type	Smart Cache	Keyboard backlit	✓
Processor base power	28 W	Software	
Maximum turbo power	115 W	Operating system architecture	64-bit
Neural processor unit (NPU)		Operating system installed *	Windows 11 Pro
Neural processor unit (NPU)	Intel AI Boost	Battery	
Maximum frequency NPU	1.4 GHz	Number of battery cells	4
Sparsity support	✓	Battery capacity *	72 Wh
Windows Studio effects support	✓	Battery voltage	15.4 V
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery recharge time	4 h
Memory		Fast charging	✓
Internal memory *	32 GB	Battery weight	285 g
Internal memory type	LPDDR5x-SDRAM	Power	
Memory form factor	On-board	AC adapter frequency	50 - 60 Hz
Maximum internal memory *	32 GB	AC adapter input voltage	100 - 240 V
Memory channels	Dual-channel	USB Type-C charging port *	✓
Memory data transfer rate	7467 MT/s	USB Power Delivery (USB PD)	✓
Storage		Security	
Total storage capacity *	512 GB	Cable lock slot	✓
Storage media *	SSD	Cable lock slot type	Wedge
Total SSDs capacity	512 GB	Trusted Platform Module (TPM)	✓
Number of SSDs installed	1	Trusted Platform Module (TPM) version	2.0
SSD capacity	512 GB	Password protection	✓
SSD interface	PCI Express 4.0	Operational conditions	
NVMe	✓	Operating temperature (T-T)	0 - 35 °C
SSD form factor	M.2	Storage temperature (T-T)	-40 - 65 °C
Optical drive type *	✗	Operating relative humidity (H-H)	10 - 90%
Card reader integrated	✓	Storage relative humidity (H-H)	0 - 95%
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Operating altitude	-15.2 - 3048 m
Graphics		Non-operating altitude	-15.2 - 10668 m
Discrete graphics card model *	NVIDIA RTX 1000 Ada	Operating shock	110 G
Discrete graphics card memory	6 GB	Non-operating shock	160 G
Discrete graphics memory type	GDDR6	Operating vibration	0.66 G
On-board graphics card *	✓	Non-operating vibration	1.3 G
On-board GPU manufacturer	Intel	Sustainability	
Discrete graphics card *	✓	Sustainability certificates	ENERGY STAR, TCO
		Weight & dimensions	
		Width	310.6 mm
		Depth	210.3 mm
		Height (front)	7.49 mm
		Height (rear)	1.9 cm
		Weight *	1.49 kg
		Packaging content	
		Cables included	AC



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