



# DELL Precision 5690 Intel Core Ultra 7 165H Mobile workstation 40.6 cm (16") 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: 3W3PW

Product name : 5690



- Windows 11 Pro 64-bit
- Intel Core Ultra 7 165H (24MB Cache)
- 40.6 cm (16") Full HD+ 1920 x 1200 IPS, NVIDIA RTX 2000 Ada (8GB GDDR6)
- 32GB LPDDR5x-SDRAM & 1000GB SSD

Intel Core Ultra 7 165H (24MB Cache), 32GB LPDDR5x-SDRAM, 1000GB SSD, 40.6 cm (16") Full HD+ 1920 x 1200 IPS, Intel Arc Graphics, NVIDIA RTX 2000 Ada (8GB GDDR6), WLAN, Webcam, Windows 11 Pro 64-bit

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## Intelligent performance. Power to create your masterpieces.

A premium workstation built for users who want a large display and exceptional, intelligent performance in a thin and light design. Features FHD HDR IR camera, Haptics trackpad and premium audio for a high-quality experience.



Design		Camera	
Product type *	Mobile workstation	Front camera resolution	1920 x 1080 pixels
Product colour *	Grey	Front camera HD type	Full HD
Form factor *	Clamshell	Video capturing speed	30 fps
Market positioning	Business	Infrared (IR) camera	✓
Intel® vPro™ Platform Eligibility	✓	Network	
Display		Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Display diagonal *	40.6 cm (16")	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)
Display resolution *	1920 x 1200 pixels	Mobile network connection *	✗
Touchscreen *	✗	Antenna type	2x2
HD type	Full HD+	WLAN controller model	Intel Wi-Fi 7 BE200
Panel type	IPS	WLAN controller manufacturer	Intel
LED backlight	✓	Bluetooth	✓
Native aspect ratio	16:10	MIMO	✓
Anti-glare screen	✓	MIMO type	Multi User MIMO
Display brightness	500 cd/m <sup>2</sup>	Ports & interfaces	
Pixel density	142 ppi	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
RGB colour space	DCI-P3	HDMI ports quantity *	1
Colour gamut	100%	HDMI version	2.1
Maximum refresh rate	60 Hz	Thunderbolt 4 ports quantity	2
Contrast ratio (typical)	1300:1	Intel® Thunderbolt 4	✓
Processor		Combo headphone/mic port	✓
Processor manufacturer *	Intel	USB Type-C DisplayPort Alternate Mode	✓
Processor family *	Intel Core Ultra 7	USB Power Delivery	✓
Processor generation	Intel® Core™ Ultra (Series 1)	Performance	
Processor model *	165H	Ambient light sensor	✓
Processor cores	16		
Processor threads	22		
Processor boost frequency	5 GHz		

<b>Processor</b>		<b>Performance</b>	
Performance cores	6	Accelerometer	✓
Efficient cores	8	Proximity sensor	✓
Low Power Efficient-cores	2	Gyroscope	✓
Performance-core Max Turbo Frequency	5 GHz	Hall sensor	✓
Efficient-core Max Turbo Frequency	3.8 GHz	<b>Keyboard</b>	
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Pointing device	Touchpad
Performance-core base frequency	1.4 GHz	Keyboard language	UK English
Efficient-core base frequency	0.9 GHz	Numeric keypad *	✗
Low Power Efficient-core Base Frequency	700 MHz	Keyboard backlit	✓
Processor cache	24 MB	<b>Software</b>	
Processor cache type	Smart Cache	Operating system architecture	64-bit
Processor base power	28 W	Operating system language	German, Dutch, English, French, Italian
Maximum turbo power	115 W	Trial software	No Microsoft Office Licence Included - 30 day Trial Offer Only
<b>Neural processor unit (NPU)</b>		Operating system installed *	Windows 11 Pro
Neural processor unit (NPU)	Intel AI Boost	<b>Battery</b>	
Maximum frequency NPU	1.4 GHz	Battery technology	Lithium-Ion (Li-Ion)
Sparsity support	✓	Number of battery cells	6
Windows Studio effects support	✓	Battery capacity *	99.5 Wh
AI datatype support on NPU	FP16, FP32, Int8	Battery voltage	11.55 V
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery recharge time	3 h
<b>Memory</b>		Fast charging	✓
Internal memory *	32 GB	Battery charge indicator	✓
Internal memory type	LPDDR5x-SDRAM	Battery weight	363 g
Memory form factor	On-board	<b>Power</b>	
Maximum internal memory *	32 GB	AC adapter power	165 W
Memory channels	Dual-channel	AC adapter frequency	50 - 60 Hz
Memory data transfer rate	7467 MT/s	AC adapter input voltage	100 - 240 V
<b>Storage</b>		<b>Security</b>	
Total storage capacity *	1 TB	Cable lock slot	✓
Storage media *	SSD	Cable lock slot type	Wedge
Total SSDs capacity	1 TB	Fingerprint reader	✓
Number of SSDs installed	1	Trusted Platform Module (TPM)	✓
SSD capacity	1 TB	Trusted Platform Module (TPM) version	2.0
SSD interface	PCI Express 4.0	Password protection	✓
NVMe	✓	<b>Operational conditions</b>	
SSD form factor	M.2	Operating temperature (T-T)	0 - 35 °C
SSD performance class	40	Storage temperature (T-T)	-40 - 65 °C
M.2 SSD size	2280 (22 x 80 mm)	Operating relative humidity (H-H)	10 - 90%
Optical drive type *	✗	Storage relative humidity (H-H)	0 - 95%
<b>Graphics</b>		Operating altitude	-15.2 - 3048 m
Discrete graphics card model *	NVIDIA RTX 2000 Ada	Non-operating altitude	-15.2 - 10668 m
Discrete graphics card memory	8 GB	Operating shock	110 G
Discrete graphics memory type	GDDR6	Non-operating shock	160 G
On-board graphics card *	✓	Operating vibration	0.66 G
On-board GPU manufacturer	Intel	Non-operating vibration	1.3 G
Discrete graphics card *	✓	<b>Weight &amp; dimensions</b>	
On-board graphics card family	Intel Arc Graphics	Width	353.7 mm
On-board graphics card model *	Intel Arc Graphics	Depth	240.3 mm
<b>Audio</b>		Height (front)	2.05 cm
Number of built-in speakers	4	Height (rear)	2.22 cm
Speakers manufacturer	Waves	Weight *	2.03 kg
Built-in microphone	✓	<b>Carbon footprint</b>	
Number of microphones	2	Total carbon footprint	246 kg of CO2e
<b>Camera</b>		Carbon emissions (Manufacturing)	200 kg of CO2e
Front camera	✓		

**Camera**

Front camera resolution (numeric) 2.07 MP

**Carbon footprint**

Carbon emissions (Logistics)	7 kg of CO2e
Carbon emissions (Energy Usage)	36 kg of CO2e
Carbon emissions (End-of-Life)	2 kg of CO2e
Total carbon emissions (w/o Use phase)	210 kg of CO2e
PAIA version	GaBi verison1

**Packaging content**

Cables included	AC
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