



# 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 1000 Ada Wi-Fi 7 (802.11be) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: HKHPY

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 1000 Ada (6GB 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 1000 Ada (6GB 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		Audio	
Product type *	Mobile workstation	Built-in microphone	✓
Product colour *	Grey	Number of microphones	2
Form factor *	Clamshell	Camera	
Market positioning	Business	Front camera	✓
Intel® vPro™ Platform Eligibility	✓	Front camera resolution (numeric)	2.07 MP
Display		Front camera resolution	1920 x 1080 pixels
Display diagonal *	40.6 cm (16")	Front camera HD type	Full HD
Display resolution *	1920 x 1200 pixels	Video capturing speed	30 fps
Touchscreen *	✗	Infrared (IR) camera	✓
HD type	Full HD+	Network	
Panel type	IPS	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
LED backlight	✓	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)
Native aspect ratio	16:10	Mobile network connection *	✗
Anti-glare screen	✓	Antenna type	2x2
Display brightness	500 cd/m <sup>2</sup>	WLAN controller model	Intel Wi-Fi 7 BE200
Pixel density	142 ppi	WLAN controller manufacturer	Intel
RGB colour space	DCI-P3	Bluetooth	✓
Colour gamut	100%	MIMO	✓
Maximum refresh rate	60 Hz	MIMO type	Multi User MIMO
Contrast ratio (typical)	1300:1	Ports & interfaces	
Processor		USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Processor manufacturer *	Intel	HDMI ports quantity *	1
Processor family *	Intel Core Ultra 7	HDMI version	2.1
Processor generation	Intel® Core™ Ultra (Series 1)	Thunderbolt 4 ports quantity	2
Processor model *	165H	Intel® Thunderbolt 4	✓
Processor cores	16		
Processor threads	22		
Processor boost frequency	5 GHz		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Performance cores	6	Combo headphone/mic port	✓
Efficient cores	8	USB Type-C DisplayPort Alternate Mode	✓
Low Power Efficient-cores	2	USB Power Delivery	✓
Performance-core Max Turbo Frequency	5 GHz	<b>Performance</b>	
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	Proximity sensor	✓
Efficient-core base frequency	0.9 GHz	Gyroscope	✓
Low Power Efficient-core Base Frequency	700 MHz	Hall sensor	✓
Processor cache	24 MB	<b>Keyboard</b>	
Processor cache type	Smart Cache	Pointing device	Touchpad
Processor base power	28 W	Keyboard language	UK English
Maximum turbo power	115 W	Numeric keypad *	✗
<b>Neural processor unit (NPU)</b>		Keyboard backlit	✓
Neural processor unit (NPU)	Intel AI Boost	<b>Software</b>	
Maximum frequency NPU	1.4 GHz	Operating system architecture	64-bit
Sparsity support	✓	Operating system language	German, Dutch, English, French, Italian
Windows Studio effects support	✓	Trial software	No Microsoft Office Licence Included - 30 day Trial Offer Only
AI datatype support on NPU	FP16, FP32, Int8	Operating system installed *	Windows 11 Pro
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	<b>Battery</b>	
<b>Memory</b>		Battery technology	Lithium-Ion (Li-Ion)
Internal memory *	32 GB	Number of battery cells	6
Internal memory type	LPDDR5x-SDRAM	Battery capacity *	99.5 Wh
Memory form factor	On-board	Battery voltage	11.55 V
Maximum internal memory *	32 GB	Battery recharge time	3 h
Memory channels	Dual-channel	Fast charging	✓
Memory data transfer rate	7467 MT/s	Battery charge indicator	✓
<b>Storage</b>		Battery weight	363 g
Total storage capacity *	1 TB	<b>Power</b>	
Storage media *	SSD	AC adapter power	165 W
Total SSDs capacity	1 TB	AC adapter frequency	50 - 60 Hz
Number of SSDs installed	1	AC adapter input voltage	100 - 240 V
SSD capacity	1 TB	<b>Security</b>	
SSD interface	PCI Express 4.0	Cable lock slot	✓
NVMe	✓	Cable lock slot type	Wedge
SSD form factor	M.2	Fingerprint reader	✓
SSD performance class	40	Trusted Platform Module (TPM)	✓
M.2 SSD size	2280 (22 x 80 mm)	Trusted Platform Module (TPM) version	2.0
Optical drive type *	✗	Password protection	✓
<b>Graphics</b>		<b>Operational conditions</b>	
Discrete graphics card model *	NVIDIA RTX 1000 Ada	Operating temperature (T-T)	0 - 35 °C
Discrete graphics card memory	6 GB	Storage temperature (T-T)	-40 - 65 °C
Discrete graphics memory type	GDDR6	Operating relative humidity (H-H)	10 - 90%
On-board graphics card *	✓	Storage relative humidity (H-H)	0 - 95%
On-board GPU manufacturer	Intel	Operating altitude	-15.2 - 3048 m
Discrete graphics card *	✓	Non-operating altitude	-15.2 - 10668 m
On-board graphics card family	Intel Arc Graphics	Operating shock	110 G
On-board graphics card model *	Intel Arc Graphics	Non-operating shock	160 G
<b>Audio</b>		Operating vibration	0.66 G
Number of built-in speakers	4	Non-operating vibration	1.3 G
Speakers manufacturer	Waves	<b>Weight &amp; dimensions</b>	
		Width	353.7 mm
		Depth	240.3 mm
		Height (front)	2.05 cm

**Weight & dimensions**

Height (rear)	2.22 cm
Weight *	2.17 kg

**Packaging content**

Cables included	AC
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