



## DELL Precision 5690 Intel Core Ultra 7 165H Station de travail mobile 40,6 cm (16") Full HD+ 32 Go LPDDR5x-SDRAM 1 To SSD NVIDIA RTX 1000 Ada Wi-Fi 7 (802.11be) Windows 11 Pro Gris

Marque : DELL

Famille de produit: Precision

Code produit: TF4HK

Nom du produit : 5690

DELL Precision 5690. Type de produit: Station de travail mobile, Elément de format: Boîte coquille. Famille de processeur: Intel Core Ultra 7, Modèle de processeur: 165H. Taille de l'écran: 40,6 cm (16"), Type HD: Full HD+, Résolution de l'écran: 1920 x 1200 pixels. Mémoire interne: 32 Go, Type de mémoire interne: LPDDR5x-SDRAM. Capacité totale de stockage: 1 To, Supports de stockage: SSD. Modèle d'adaptateur graphique à bord: Intel Arc Graphics, Modèle d'adaptateur graphique discrèt: NVIDIA RTX 1000 Ada. Système d'exploitation installé: Windows 11 Pro. Couleur du produit: Gris



| Design                            |                               | Camera  |   |
|-----------------------------------|-------------------------------|---|---|
| Product type *                    | Mobile workstation            | Video capturing speed                           | 30 fps  |
| Product colour *                  | Grey                          | Infrared (IR) camera                            | ✓   |
| Form factor *                     | Clamshell                     | Network   |   |
| Market positioning                | Business                      | Top Wi-Fi standard *                            | Wi-Fi 7 (802.11be)  |
| Intel® vPro™ Platform Eligibility | ✓                             | 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                           |                               | Mobile network connection *                     | ✗   |
| Display diagonal *                | 40.6 cm (16")                 | Antenna type                                    | 2x2   |
| Display resolution *              | 1920 x 1200 pixels            | WLAN controller model                           | Intel Wi-Fi 7 BE200   |
| Touchscreen *                     | ✗                             | WLAN controller manufacturer                    | Intel   |
| HD type                           | Full HD+                      | Bluetooth                                       | ✓   |
| Panel type                        | IPS                           | MIMO  | ✓   |
| LED backlight                     | ✓                             | MIMO type                                       | Multi User MIMO   |
| Native aspect ratio               | 16:10                         | Ports & interfaces                              |   |
| Anti-glare screen                 | ✓                             | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1   |
| Display brightness                | 500 cd/m²                     | HDMI ports quantity *                           | 1   |
| Pixel density                     | 142 ppi                       | HDMI version                                    | 2.1   |
| RGB colour space                  | DCI-P3                        | Thunderbolt 4 ports quantity                    | 2   |
| Colour gamut                      | 100%                          | Intel® Thunderbolt 4                            | ✓   |
| Maximum refresh rate              | 60 Hz                         | Combo headphone/mic port                        | ✓   |
| Contrast ratio (typical)          | 1300:1                        | USB Type-C DisplayPort Alternate Mode           | ✓   |
| Processor                         |                               | Performance                                     |   |
| Processor manufacturer *          | Intel                         | Ambient light sensor                            | ✓   |
| Processor family *                | Intel Core Ultra 7            | Accelerometer                                   | ✓   |
| Processor generation              | Intel® Core™ Ultra (Series 1) |   |   |
| Processor model *                 | 165H                          |   |   |
| Processor cores                   | 16                            |   |   |
| Processor threads                 | 22                            |   |   |

| Processor                                    |   | Performance                           |  |
|--|---|---------------------------------------|--|
| Processor boost frequency                    | 5 GHz                                   | Proximity sensor                      | ✓  |
| Performance cores                            | 6                                       | Gyroscope                             | ✓  |
| Efficient cores                              | 8                                       | Hall sensor                           | ✓  |
| Low Power Efficient-cores                    | 2                                       | Keyboard                              |  |
| Performance-core Max Turbo Frequency         | 5 GHz                                   | Pointing device                       | Touchpad   |
| Efficient-core Max Turbo Frequency           | 3.8 GHz                                 | Keyboard language                     | US International   |
| Low Power Efficient-core Max Turbo Frequency | 2.5 GHz                                 | Numeric keypad *                      | ✗  |
| Performance-core base frequency              | 1.4 GHz                                 | Keyboard backlit                      | ✓  |
| Efficient-core base frequency                | 0.9 GHz                                 | Copilot key                           | ✓  |
| Low Power Efficient-core Base Frequency      | 700 MHz                                 | Software                              |  |
| Processor cache                              | 24 MB                                   | Operating system architecture         | 64-bit   |
| Processor cache type                         | Smart Cache                             | Operating system language             | German, Dutch, English, French, Italian                        |
| Processor base power                         | 28 W                                    | Trial software                        | No Microsoft Office Licence Included - 30 day Trial Offer Only |
| Maximum turbo power                          | 115 W                                   | Operating system installed *          | Windows 11 Pro   |
| Neural processor unit (NPU)                  |   | Microsoft Copilot                     | ✓  |
| Neural processor unit (NPU)                  | Intel AI Boost                          | Copilot+ PC                           | ✓  |
| Maximum frequency NPU                        | 1.4 GHz                                 | Battery                               |  |
| Sparsity support                             | ✓                                       | Battery technology                    | Lithium-Ion (Li-Ion)   |
| Windows Studio effects support               | ✓                                       | Number of battery cells               | 6  |
| AI datatype support on NPU                   | FP16, FP32, Int8                        | Battery capacity *                    | 99.5 Wh  |
| AI software frameworks supported by NPU      | DirectML, ONNX RT, OpenVINO, Windows ML | Battery voltage                       | 11.55 V  |
| Memory                                       |   | Battery recharge time                 | 3 h  |
| Internal memory *                            | 32 GB                                   | Fast charging                         | ✓  |
| Internal memory type                         | LPDDR5x-SDRAM                           | Battery charge indicator              | ✓  |
| Memory form factor                           | On-board                                | Battery weight                        | 363 g  |
| Maximum internal memory *                    | 32 GB                                   | Power                                 |  |
| Memory channels                              | Dual-channel                            | AC adapter power                      | 165 W  |
| Memory data transfer rate                    | 7467 MT/s                               | AC adapter frequency                  | 50 - 60 Hz   |
| Storage                                      |   | AC adapter input voltage              | 100 - 240 V  |
| Total storage capacity *                     | 1 TB                                    | USB Power Delivery (USB PD)           | ✓  |
| Storage media *                              | SSD                                     | Security                              |  |
| Total SSDs capacity                          | 1 TB                                    | Cable lock slot                       | ✓  |
| Number of SSDs installed                     | 1                                       | Cable lock slot type                  | Wedge  |
| SSD capacity                                 | 1 TB                                    | Fingerprint reader                    | ✓  |
| SSD interface                                | PCI Express 4.0                         | Trusted Platform Module (TPM)         | ✓  |
| NVMe   | ✓                                       | Trusted Platform Module (TPM) version | 2.0  |
| SSD form factor                              | M.2                                     | Password protection                   | ✓  |
| SSD performance class                        | 40                                      | Operational conditions                |  |
| M.2 SSD size                                 | 2280 (22 x 80 mm)                       | Operating temperature (T-T)           | 0 - 35 °C  |
| Optical drive type *                         | ✗                                       | Storage temperature (T-T)             | -40 - 65 °C  |
| Graphics                                     |   | Operating relative humidity (H-H)     | 10 - 90%   |
| Discrete graphics card model *               | NVIDIA RTX 1000 Ada                     | Storage relative humidity (H-H)       | 0 - 95%  |
| Discrete graphics card memory                | 6 GB                                    | Operating altitude                    | -15.2 - 3048 m   |
| Discrete graphics memory type                | GDDR6                                   | Non-operating altitude                | -15.2 - 10668 m  |
| On-board graphics card *                     | ✓                                       | Operating shock                       | 110 G  |
| On-board GPU manufacturer                    | Intel                                   | Non-operating shock                   | 160 G  |
| Discrete graphics card *                     | ✓                                       | Operating vibration                   | 0.66 G   |
| On-board graphics card family                | Intel Arc Graphics                      | Non-operating vibration               | 1.3 G  |
| On-board graphics card model *               | Intel Arc Graphics                      | Weight & dimensions                   |  |
| Audio  |   | Width                                 | 353.7 mm   |
| Number of built-in speakers                  | 4                                       | Depth                                 | 240.3 mm   |
| Speakers manufacturer                        | Waves                                   | Height (front)                        | 2.05 cm  |
| Built-in microphone                          | ✓                                       | Height (rear)                         | 2.22 cm  |
| Number of microphones                        | 2                                       |                                       |  |

| Camera                            |                    | Weight & dimensions                                |                      |
|-----------------------------------|--------------------|--|----------------------|
| Front camera                      | ✓                  | Weight *   | 2.03 kg              |
| Front camera resolution (numeric) | 2.07 MP            | Carbon footprint                                   |                      |
| Front camera resolution           | 1920 x 1080 pixels | Total carbon footprint (kg of CO2e)                | 246                  |
| Front camera HD type              | Full HD            | Carbon emissions, manufacturing (kg of CO2e)       | 200                  |
|                                   |                    | Carbon emissions, logistics (kg of CO2e)           | 7                    |
|                                   |                    | Carbon emissions, energy usage (kg of CO2e)        | 36                   |
|                                   |                    | Carbon emissions, end-of-life (kg of CO2e)         | 2                    |
|                                   |                    | Total carbon emissions, w/o use phase (kg of CO2e) | 210                  |
|                                   |                    | PAIA version                                       | GaBi version 1, 2024 |
|                                   |                    | Packaging content                                  |                      |
|                                   |                    | Cables included                                    | AC                   |



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