# DELL Precision 5690 Intel Core Ultra 7 165H Workstation mobile 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 Italiano Grigio

**Marchio :** DELL

**Famiglia del prodotto:** Precision

**Codice prodotto:** R3G69

**Nome del prodotto :** 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

DELL Precision 5690 Intel Core Ultra 7 165H Workstation mobile 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 Italiano Grigio:

**Prestazioni intelligenti. Per creare i tuoi capolavori.**
Una workstation premium progettata per gli utenti che desiderano un display di grandi dimensioni e prestazioni eccezionali e intelligenti in un design sottile e leggero. È dotata di fotocamera FHD HDR a infrarossi, trackpad tattile e audio premium per un'esperienza di alta qualità.

## Design

| | |
|---|---|
| Product type * | Mobile workstation |
| Product colour * | Grey |
| Form factor * | Clamshell |
| Market positioning | Business |
| Intel® vPro™ Platform Eligibility | ✔ |

## Display

| | |
|---|---|
| Display diagonal * | 40.6 cm (16") |
| Display resolution * | 1920 x 1200 pixels |
| Touchscreen * | ✘ |
| HD type | Full HD+ |
| Panel type | IPS |
| LED backlight | ✔ |
| Native aspect ratio | 16:10 |
| Anti-glare screen | ✔ |
| Display brightness | 500 cd/m² |
| Pixel density | 142 ppi |
| RGB colour space | DCI-P3 |
| Colour gamut | 100% |
| Maximum refresh rate | 60 Hz |
| Contrast ratio (typical) | 1300:1 |

## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel Core Ultra 7 |
| Processor generation | Intel® Core™ Ultra (Series 1) |
| Processor model * | 165H |
| Processor cores | 16 |
| Processor threads | 22 |

## Network

| | |
|---|---|
| Top Wi-Fi standard * | Wi-Fi 7 (802.11be) |
| 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) |
| Mobile network connection * | ✘ |
| Antenna type | 2x2 |
| WLAN controller model | Intel Wi-Fi 7 BE200 |
| WLAN controller manufacturer | Intel |
| Ethernet LAN | ✘ |
| Bluetooth | ✔ |
| MIMO | ✔ |
| MIMO type | Multi User MIMO |

## Ports & interfaces

| | |
|---|---|
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1 |
| HDMI ports quantity * | 1 |
| HDMI version | 2.1 |
| Thunderbolt 4 ports quantity | 2 |
| Intel® Thunderbolt 4 | ✔ |
| Combo headphone/mic port | ✔ |
| USB Type-C DisplayPort Alternate Mode | ✔ |

## Performance

| | |
|---|---|
| Ambient light sensor | ✔ |
| Accelerometer | ✔ |
| Proximity sensor | ✔ |
| Gyroscope | ✔ |

## Processor

| | |
|---|---|
| Processor boost frequency | 5 GHz |
| Performance cores | 6 |
| Efficient cores | 8 |
| Low Power Efficient-cores | 2 |
| Performance-core Max Turbo Frequency | 5 GHz |
| Efficient-core Max Turbo Frequency | 3.8 GHz |
| Low Power Efficient-core Max Turbo Frequency | 2.5 GHz |
| Performance-core base frequency | 1.4 GHz |
| Efficient-core base frequency | 0.9 GHz |
| Low Power Efficient-core Base Frequency | 700 MHz |
| Processor cache | 24 MB |
| Processor cache type | Smart Cache |
| Number of processors supported | 1 |
| Processor base power | 28 W |
| Maximum turbo power | 115 W |

## Neural processor unit (NPU)

| | |
|---|---|
| Neural processor unit (NPU) | Intel AI Boost |
| Sparsity support | ✔ |
| Windows Studio effects support | ✔ |
| AI software frameworks supported by NPU | DirectML, ONNX RT, OpenVINO, Windows ML |

## Memory

| | |
|---|---|
| Internal memory * | 32 GB |
| Internal memory type | LPDDR5x-SDRAM |
| Memory form factor | On-board |
| Memory layout (slots x size) | Not available |
| Memory slots | Not available |
| Memory channels | Dual-channel |
| Memory data transfer rate | 7467 MT/s |

## Storage

| | |
|---|---|
| Total storage capacity * | 1 TB |
| Storage media * | SSD |
| Total SSDs capacity | 1 TB |
| Number of SSDs installed | 1 |
| SSD capacity | 1 TB |
| SSD interface | PCI Express 4.0 |
| NVMe | ✔ |
| SSD form factor | M.2 |
| SSD performance class | 40 |
| M.2 SSD size | 2280 (22 x 80 mm) |
| Optical drive type * | ✘ |
| Compatible memory cards | Not supported |

## Graphics

| | |
|---|---|
| Discrete GPU manufacturer | NVIDIA |
| Discrete graphics card model * | NVIDIA RTX 2000 Ada |
| Discrete graphics card memory | 8 GB |
| Discrete graphics memory type | GDDR6 |
| On-board graphics card * | ✔ |
| On-board GPU manufacturer | Intel |
| Discrete graphics card * | ✔ |
| On-board graphics card family | Intel Arc Graphics |
| On-board graphics card model * | Intel Arc Graphics |
| Maximum on-board graphics card resolution | 7680 x 4320 pixels |
| Maximum discrete graphics card resolution | 3840 x 2160 pixels |

## Performance

| | |
|---|---|
| Hall sensor | ✔ |

## Keyboard

| | |
|---|---|
| Pointing device | Touchpad |
| Numeric keypad * | ✘ |
| Keyboard backlit | ✔ |
| Keyboard language | Italian |
| Copilot key | ✔ |

## Software

| | |
|---|---|
| Operating system architecture | 64-bit |
| Operating system language | German, Dutch, English, French, Italian |
| Trial software | No Microsoft Office Licence Included - 30 day Trial Offer Only |
| Operating system installed * | Windows 11 Pro |
| Microsoft Copilot | ✔ |

## Battery

| | |
|---|---|
| Battery technology | Lithium-Ion (Li-Ion) |
| Number of battery cells | 6 |
| Battery capacity * | 99.5 Wh |
| Battery voltage | 11.55 V |
| Battery recharge time | 3 h |
| Fast charging | ✔ |
| Battery charge indicator | ✔ |
| Battery weight | 363 g |

## Power

| | |
|---|---|
| AC adapter power | 165 W |
| AC adapter frequency | 50 - 60 Hz |
| AC adapter input voltage | 100 - 240 V |
| USB Power Delivery (USB PD) | ✔ |

## Security

| | |
|---|---|
| Cable lock slot | ✔ |
| Cable lock slot type | Wedge |
| Fingerprint reader | ✔ |
| Trusted Platform Module (TPM) | ✔ |
| Trusted Platform Module (TPM) version | 2.0 |
| Password protection | ✔ |

## Operational conditions

| | |
|---|---|
| Operating temperature (T-T) | 0 - 35 °C |
| Storage temperature (T-T) | -40 - 65 °C |
| Operating relative humidity (H-H) | 10 - 90% |
| Storage relative humidity (H-H) | 0 - 95% |
| Operating altitude | -15.2 - 3048 m |
| Non-operating altitude | -15.2 - 10668 m |
| Operating shock | 110 G |
| Non-operating shock | 160 G |
| Operating vibration | 0.66 G |
| Non-operating vibration | 1.3 G |

## Certificates

| | |
|---|---|
| Wi-Fi certified | ✔ |

## Sustainability

| | |
|---|---|
| Sustainability certificates | ENERGY STAR, TCO |

## Weight & dimensions

| | |
|---|---|
| Width | 353.7 mm |
| Depth | 240.3 mm |

## Audio

| | |
|---|---|
| Number of built-in speakers | 4 |
| Speakers manufacturer | Waves |
| Built-in microphone | ✔ |
| Number of microphones | 2 |

## Camera

| | |
|---|---|
| Front camera | ✔ |
| Front camera resolution (numeric) | 2.07 MP |
| Front camera resolution | 1920 x 1080 pixels |
| Front camera HD type | Full HD |
| Video capturing speed | 30 fps |
| Infrared (IR) camera | ✔ |

## Weight & dimensions

| | |
|---|---|
| Height | 22.2 mm |
| Height (front) | 2.05 cm |
| Height (rear) | 2.22 cm |
| Weight * | 2.03 kg |

## Carbon footprint

| | |
|---|---|
| Total carbon footprint (kg of CO2e) | 246 |
| Carbon emissions, manufacturing (kg of CO2e) | 200.49 |
| Carbon emissions, logistics (kg of CO2e) | 6.888 |
| Carbon emissions, energy usage (kg of CO2e) | 35.916 |
| Carbon emissions, end-of-life (kg of CO2e) | 2.46 |
| Total carbon emissions, w/o use phase (kg of CO2e) | 210.084 |
| PAIA version | GaBi version 1, 2024 |

## Packaging content

| | |
|---|---|
| Mouse included on selected markets only | ✘ |
| Stylus pen | ✘ |
| Cables included | AC |

## Other features

| | |
|---|---|
| RAID support | ✘ |

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