DELL
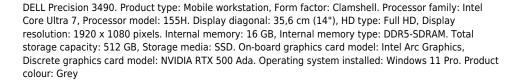
DELL Precision 3490 Intel Core Ultra 7 155H Mobile workstation 35,6 cm (14") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX 500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro French Grey

Brand : DELL   **Product family:** Precision   **Product code:** 079R4

Product name : 3490

DELL Precision 3490. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 155H. Display diagonal: 35,6 cm (14"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics, Discrete graphics card model: NVIDIA RTX 500 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey

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

Display	
Display diagonal *	35,6 cm (14")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Anti-glare screen	✔
Display brightness	400 cd/m²
Pixel pitch	0,161 x 0,161 mm
Pixel density	157 ppi
Display diagonal (metric)	35,56 cm
RGB colour space	sRGB
Colour gamut	100%
Display response rise/fall	35 ms
Maximum refresh rate	60 Hz
Contrast ratio (typical)	1000:1

Processor	
Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 7
Processor generation	Intel® Core™ Ultra (Series 1)

Camera	
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Infrared (IR) camera	✔
Privacy camera	✔
Privacy type	Privacy shutter

Network	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Wi-Fi data rate (max)	2400 Mbit/s
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 6E AX211
WLAN controller manufacturer	Intel
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
MIMO	✔
MIMO type	Multi User MIMO

Ports & interfaces	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 4 ports quantity	2
Intel® Thunderbolt 4	✔

Processor

Processor model *	155H
Processor cores	16
Processor threads	22
Processor boost frequency	4,8 GHz
Performance cores	6
Efficient cores	8
Low Power Efficient-cores	2
Performance-core Max Turbo Frequency	4,8 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
Processor base power	28 W
Maximum turbo power	115 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Maximum frequency NPU	1,4 GHz
Sparsity support	✔
Windows Studio effects support	✔
AI datatype support on NPU	FP16, FP32, Int8
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory form factor	SO-DIMM
Memory layout (slots x size)	1 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	64 GB
Memory data transfer rate	5600 MT/s
Non-ECC	✔

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
Solid-state drive capacity	512 GB
SSD memory type	TLC
Solid-state drive interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
SSD performance class	35
Optical drive type *	✘
Card reader integrated	✘

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA RTX 500 Ada
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔

Ports & interfaces

Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔
PowerShare	✔

Performance

Motherboard chipset	Intel SoC
Ambient light sensor	✔
Accelerometer	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard number of keys	80
Keyboard language	French

Software

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

Battery

Number of battery cells	3
Battery capacity *	54 Wh
Battery voltage	11,4 V
Battery recharge time	4 h
Fast charging	✔
Battery weight	220 g

Power

AC adapter power	130 W
AC adapter frequency	50/60 Hz
AC adapter input voltage	100 - 240 V
USB Type-C charging port *	✔
USB Power Delivery	✔
USB charging voltage	20,5 V
USB charging current	6.5 A

Security

Cable lock slot	✔
Cable lock slot type	Wedge
Smart card reader	✔
Face recognition	✔
Windows Hello	✔
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0

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

Graphics

On-board graphics card family	Intel Arc Graphics
On-board graphics card model *	Intel Arc Graphics

Audio

Audio system	MaxxAudio Pro
Number of built-in speakers	2
Speakers manufacturer	Waves
Speaker power	2 W
Built-in microphone	✔
Number of microphones	2

Camera

Front camera	✔
Front camera resolution (numeric)	2,07 MP

Sustainability

Sustainability compliance	✔

Weight & dimensions

Width	321,4 mm
Depth	212 mm
Height (front)	1,91 cm
Height (rear)	2,1 cm
Weight *	1,4 kg

Carbon footprint

Total carbon footprint (kg of CO2e)	104
Carbon emissions, manufacturing (kg of CO2e)	75,816
Carbon emissions, logistics (kg of CO2e)	4,368
Carbon emissions, energy usage (kg of CO2e)	23,296
Carbon emissions, end-of-life (kg of CO2e)	0,624
Total carbon emissions, w/o use phase (kg of CO2e)	80,704
PAIA version	GaBi version 1, 2024

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