



# DELL Precision 3590 Intel Core Ultra 7 155H Mobile workstation 39.6 cm (15.6") Full HD 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: JFHJW

Product name : 3590

- Windows 11 Pro 64-bit
- Intel Core Ultra 7 155H (24MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080 IPS, NVIDIA RTX A500 (4GB GDDR6)
- 32GB DDR5-SDRAM (2 x 16) & 1000GB SSD

Intel Core Ultra 7 155H (24MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080 IPS, Intel Arc Graphics, NVIDIA RTX A500 (4GB GDDR6), LAN, WLAN, Webcam, Windows 11 Pro 64-bit

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## Extraordinary performance. Built for the power user.

With intelligently optimised performance, the Precision 3590 is a reliable workstation for entry-level design and creative applications.



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	Privacy camera	✓
Intel® vPro™ Platform Eligibility	✓	Privacy type	Privacy shutter
Display		Network	
Display diagonal *	39.6 cm (15.6")	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Display resolution *	1920 x 1080 pixels	Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)
Touchscreen *	✗	Mobile network connection *	✗
HD type	Full HD	Wi-Fi data rate (max)	2400 Mbit/s
Panel type	IPS	Antenna type	2x2
LED backlight	✓	WLAN controller model	Intel Wi-Fi 6E AX211
Native aspect ratio	16:9	WLAN controller manufacturer	Intel
Anti-glare screen	✓	Ethernet LAN	✓
Display brightness	250 cd/m <sup>2</sup>	Ethernet LAN data rates	10,100,1000 Mbit/s
Pixel density	141 ppi	Bluetooth	✓
Display diagonal (metric)	39.6 cm	MIMO	✓
RGB colour space	NTSC	Ports & interfaces	
Colour gamut	45%	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Maximum refresh rate	60 Hz	Ethernet LAN (RJ-45) ports	1
Contrast ratio (typical)	700:1	HDMI ports quantity *	1
Processor		HDMI version	2.1
Processor manufacturer *	Intel	Thunderbolt 4 ports quantity	2
Processor family *	Intel Core Ultra 7	Intel® Thunderbolt 4	✓
Processor generation	Intel® Core™ Ultra (Series 1)	Combo headphone/mic port	✓
Processor model *	155H	Charging port type	USB Type-C
Processor cores	16		
Processor threads	22		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor boost frequency	4.8 GHz	USB Type-C DisplayPort Alternate Mode	✓
Performance cores	6	USB Power Delivery	✓
Efficient cores	8	PowerShare	✓
Low Power Efficient-cores	2	<b>Performance</b>	
Performance-core Max Turbo Frequency	4.8 GHz	Motherboard chipset	Intel SoC
Efficient-core Max Turbo Frequency	3.8 GHz	Ambient light sensor	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	<b>Keyboard</b>	
Performance-core base frequency	1.4 GHz	Pointing device	Touchpad
Efficient-core base frequency	0.9 GHz	Keyboard language	UK English
Low Power Efficient-core Base Frequency	700 MHz	Numeric keypad *	✓
Processor cache	24 MB	Keyboard backlit	✓
Processor cache type	Smart Cache	Keyboard number of keys	100
Processor base power	28 W	<b>Software</b>	
Maximum turbo power	115 W	Operating system architecture	64-bit
<b>Neural processor unit (NPU)</b>		Operating system language	German, Dutch, English, French, Italian
Neural processor unit (NPU)	Intel AI Boost	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Maximum frequency NPU	1.4 GHz	Operating system installed *	Windows 11 Pro
Sparsity support	✓	<b>Battery</b>	
Windows Studio effects support	✓	Number of battery cells	3
AI datatype support on NPU	FP16, FP32, Int8	Battery capacity *	54 Wh
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery voltage	11.4 V
<b>Memory</b>		Battery recharge time	4 h
Internal memory *	32 GB	Fast charging	✓
Internal memory type	DDR5-SDRAM	Battery weight	220 g
Memory form factor	SO-DIMM	<b>Power</b>	
Memory layout (slots x size)	2 x 16 GB	AC adapter power	130 W
Memory slots	2x SO-DIMM	AC adapter frequency	50/60 Hz
Maximum internal memory *	64 GB	AC adapter input voltage	100 - 240 V
Memory data transfer rate	5600 MT/s	USB charging voltage	20,5 V
Non-ECC	✓	USB charging current	6.5 A
<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	Smart card 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	<b>Operational conditions</b>	
NVMe	✓	Operating temperature (T-T)	0 - 35 °C
SSD form factor	M.2	Storage temperature (T-T)	-40 - 65 °C
SSD performance class	40	Operating relative humidity (H-H)	10 - 90%
M.2 SSD size	2280 (22 x 80 mm)	Storage relative humidity (H-H)	0 - 95%
Optical drive type *	✗	Operating altitude	-15.2 - 3048 m
Card reader integrated	✓	Non-operating altitude	-15.2 - 10668 m
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Operating shock	110 G
<b>Graphics</b>		Non-operating shock	160 G
Discrete GPU manufacturer	NVIDIA	Operating vibration	0.66 G
Discrete graphics card model *	NVIDIA RTX 500 Ada	Non-operating vibration	1.3 G
Discrete graphics card memory	4 GB	<b>Sustainability</b>	
Discrete graphics memory type	GDDR6	Sustainability compliance	✓
On-board graphics card *	✓	Sustainability certificates	TCO, ENERGY STAR, EPEAT Gold
On-board GPU manufacturer	Intel	<b>Weight &amp; dimensions</b>	
Discrete graphics card *	✓	Width	357.8 mm
On-board graphics card family	Intel Arc Graphics	Depth	233.3 mm
On-board graphics card model *	Intel Arc Graphics		

Audio		Weight & dimensions	
Audio system	MaxxAudio	Height (front)	2.08 cm
Number of built-in speakers	2	Height (rear)	2.28 cm
Speakers manufacturer	Waves	Weight *	1.62 kg
Speaker power	2 W	<b>Carbon footprint</b>	
Built-in microphone	✓	Total carbon footprint (kg of CO2e)	119
Number of microphones	2	Carbon emissions, manufacturing (kg of CO2e)	86
<b>Camera</b>		Carbon emissions, logistics (kg of CO2e)	4
Front camera	✓	Carbon emissions, energy usage (kg of CO2e)	28
Front camera resolution (numeric)	2.07 MP	Carbon emissions, end-of-life (kg of CO2e)	1
		Total carbon emissions, w/o use phase (kg of CO2e)	91
		PAIA version	GaBi verison1
		<b>Packaging content</b>	
		Cables included	AC



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