



DELL Precision 3590 Intel Core Ultra 7 155H Mobile workstation 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX A500 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: 84YVK

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)
- 16GB DDR5-SDRAM (1 x 16) & 512GB SSD

Intel Core Ultra 7 155H (24MB Cache), 16GB DDR5-SDRAM, 512GB 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		Audio	
Product type *	Mobile workstation	Speaker power	2 W
Product colour *	Grey	Built-in microphone	✓
Form factor *	Clamshell	Number of microphones	2
Market positioning	Business	Camera	
Intel® vPro™ Platform Eligibility	✓	Front camera	✓
Display		Front camera resolution (numeric)	2.07 MP
Display diagonal *	39.6 cm (15.6")	Front camera resolution	1920 x 1080 pixels
Display resolution *	1920 x 1080 pixels	Front camera HD type	Full HD
Touchscreen *	✗	Video capturing speed	30 fps
HD type	Full HD	Privacy camera	✓
Panel type	IPS	Privacy type	Privacy shutter
LED backlight	✓	Network	
Native aspect ratio	16:9	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Anti-glare screen	✓	Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)
Display brightness	250 cd/m ²	Mobile network connection *	✗
Pixel density	141 ppi	Wi-Fi data rate (max)	2400 Mbit/s
Display diagonal (metric)	39.6 cm	Antenna type	2x2
RGB colour space	NTSC	WLAN controller model	Intel Wi-Fi 6E AX211
Colour gamut	45%	WLAN controller manufacturer	Intel
Maximum refresh rate	60 Hz	Ethernet LAN	✓
Contrast ratio (typical)	700:1	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor		Bluetooth	✓
Processor manufacturer *	Intel	MIMO	✓
Processor family *	Intel Core Ultra 7	Ports & interfaces	
Processor generation	Intel Core Ultra (Series 1)	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor model *	155H		
Processor cores	16		
Processor threads	22		

Processor		Ports & interfaces	
Processor boost frequency	4.8 GHz	Ethernet LAN (RJ-45) ports	1
Performance cores	6	HDMI ports quantity *	1
Efficient cores	8	HDMI version	2.1
Low Power Efficient-cores	2	Thunderbolt 4 ports quantity	2
Performance-core Max Turbo Frequency	4.8 GHz	Intel® Thunderbolt 4	✓
Efficient-core Max Turbo Frequency	3.8 GHz	Combo headphone/mic port	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Charging port type	USB Type-C
Performance-core base frequency	1.4 GHz	USB Type-C DisplayPort Alternate Mode	✓
Efficient-core base frequency	0.9 GHz	USB Power Delivery	✓
Low Power Efficient-core Base Frequency	700 MHz	PowerShare	✓
Processor cache	24 MB	Performance	
Processor cache type	Smart Cache	Motherboard chipset	Intel SoC
Processor base power	28 W	Ambient light sensor	✓
Maximum turbo power	115 W	Keyboard	
Neural processor unit (NPU)		Pointing device	Touchpad
Neural processor unit (NPU)	Intel AI Boost	Keyboard language	UK English
Maximum frequency NPU	1.4 GHz	Numeric keypad *	✓
Sparsity support	✓	Keyboard backlit	✓
Windows Studio effects support	✓	Keyboard number of keys	100
AI datatype support on NPU	FP16, FP32, Int8	Software	
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Operating system architecture	64-bit
Memory		Operating system language	German, Dutch, English, French, Italian
Internal memory *	16 GB	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Internal memory type	DDR5-SDRAM	Operating system installed *	Windows 11 Pro
Memory form factor	SO-DIMM	Battery	
Memory layout (slots x size)	1 x 16 GB	Number of battery cells	3
Memory slots	2x SO-DIMM	Battery capacity *	54 Wh
Maximum internal memory *	64 GB	Battery voltage	11.4 V
Memory data transfer rate	5600 MT/s	Battery recharge time	4 h
Non-ECC	✓	Fast charging	✓
Storage		Battery weight	220 g
Total storage capacity *	512 GB	Power	
Storage media *	SSD	AC adapter power	130 W
Total SSDs capacity	512 GB	AC adapter frequency	50/60 Hz
Number of SSDs installed	1	AC adapter input voltage	100 - 240 V
SSD capacity	512 GB	USB charging voltage	20,5 V
SSD interface	PCI Express 4.0	USB charging current	6.5 A
NVMe	✓	Security	
SSD form factor	M.2	Cable lock slot	✓
SSD performance class	35	Cable lock slot type	Wedge
Optical drive type *	✗	Smart card reader	✓
Card reader integrated	✓	Trusted Platform Module (TPM)	✓
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Trusted Platform Module (TPM) version	2.0
Graphics		Operational conditions	
Discrete GPU manufacturer	NVIDIA	Operating temperature (T-T)	0 - 35 °C
Discrete graphics card model *	NVIDIA RTX A500	Storage temperature (T-T)	-40 - 65 °C
Discrete graphics card memory	4 GB	Operating relative humidity (H-H)	10 - 90%
Discrete graphics memory type	GDDR6	Storage relative humidity (H-H)	0 - 95%
On-board graphics card *	✓	Operating altitude	-15.2 - 3048 m
On-board GPU manufacturer	Intel	Non-operating altitude	-15.2 - 10668 m
Discrete graphics card *	✓	Operating shock	110 G
On-board graphics card family	Intel Arc Graphics	Non-operating shock	160 G
On-board graphics card model *	Intel Arc Graphics	Operating vibration	0.66 G
		Non-operating vibration	1.3 G

Audio		Sustainability	
Audio system	MaxxAudio	Sustainability compliance	✓
Number of built-in speakers	2	Sustainability certificates	TCO, ENERGY STAR, EPEAT Gold
Speakers manufacturer	Waves		
Weight & dimensions			
Width		357.8 mm	
Depth		233.3 mm	
Height (front)		2.08 cm	
Height (rear)		2.28 cm	
Weight *		1.62 kg	
Packaging content			
Cables included		AC	



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