

Dell Precision 7780(R9N19)

Dell Precision 7780 - Intel Core i7 13850HX / 2.1 GHz - Win 11 Pro - NVIDIA RTX 2000 Ada - 16 GB RAM - 512 GB SSD NVMe,Class 40 - 17" 1920 x 1080 (Full HD) - 802.11a/b/g/n/ac/ax (Wi-Fi 6E) - grey - BTP - with 3 Years ProSupport



Key Selling Points

Stay cool, calm and productive
No idea is too big
Collaborate seamlessly
Create with ease
Communicate with clarity
Designed with wellness in mind
Security you can count on
Seamless privacy
Environmental standards

Product Features

Stay cool, calm and productive

Optimize performance with advanced thermals featuring dual opposing output fans and user selectable thermal tables.

No idea is too big

Store your work confidently with a large storage and DDR5 memory.

Collaborate seamlessly

The FHD IR camera delivers seamless video and screen clarity.

Create with ease

Work on a large clickpad (no buttons) and backlit, spill-resistant keyboard.

Communicate with clarity

"Waves MaxxAudio Pro" reduces background noise, while optimizing your voice.

Designed with wellness in mind

ComfortView Plus - an always-on, built-in low blue light screen - reduces potentially harmful blue light emissions without compromising color.

Security you can count on

Chassis intrusion Sensor alerts you if the chassis or BIOS has been tampered with.

Seamless privacy

Simply close the camera shutter when it's not in use.

Environmental standards

Meets the latest environmental standards such as ENERGY STAR, and TCO Certified Edge, and is EPEAT Gold registered.

Main Specifications

Product Description	Dell Precision 7780 - 17" - Core i7 13850HX - 16 GB RAM - 512 GB SSD
Product Type	Mobile workstation
Operating System	Win 11 Pro - Dutch / English / French / German / Italian
Processor	Intel Core i7 (13th Gen) 13850HX / 2.1 GHz (5.3 GHz) / 30 MB Cache
Memory	16 GB DDR5 (1 x 16 GB)
Storage	512 GB SSD - NVMe, Class 40
Display	17" 1920 x 1080 / Full HD @ 60 Hz - 127 ppi

Graphics	NVIDIA RTX 2000 Ada
Video Memory	8 GB GDDR6 SDRAM
Input Device	Keyboard,touchpad
Keyboard Backlight	Yes
Numeric Keypad	Yes
Integrated Webcam	Yes
Networking	Bluetooth,802.11a/b/g/n/ac/ax (Wi-Fi 6E),Gigabit Ethernet
Battery	6-cell
Features	Accelerometer,ambient light sensor,proximity sensor,hall sensor
Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip,smart card reader
Colour	Grey
Dimensions (WxDxH)	39.8 cm x 26.502 cm x 2.67 cm
Weight	3.02 kg
Pricing Type	Build To Plan (BTP)
Environmental Standards	ENERGY STAR Qualified EPEAT Gold
Bundled Services	3 Years ProSupport

Extended Specification

General

Product Type	Mobile workstation
Operating System	Windows 11 Pro - Dutch / English / French / German / Italian

Processor / Chipset

CPU	Intel Core i7 (13th Gen) 13850HX / 2.1 GHz
Max Turbo Speed	5.3 GHz
Number of Cores	20-core
Cache	L3 - 30 MB
Features	Intel Smart Cache

Memory

RAM	16 GB (1 x 16 GB)
Max RAM Supported	128 GB
Technology	DDR5 SDRAM - non-ECC
Speed	4800 MHz
Rated Speed	4800 MHz
Form Factor	CAMM

Storage

Main Storage	512 GB SSD M.2 2280 PCIe 4.0 x4 - NVMe Express (NVMe),Class 40
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Display

Type	17"
Resolution	1920 x 1080 (Full HD)

V-Sync Rate at Max Res.	60 Hz
Widescreen	Yes
Pixel Density (ppi)	127
Image Brightness	500 cd/m ²
Colour Gamut	99% DCI-P3
Features	Anti-glare,Wide Viewing Angle,±80° horizontal viewing angle,±80° vertical viewing angle,35 ms response rate,0.198 mm pixel pitch

Audio &Video

Graphics Processor	NVIDIA RTX 2000 Ada
Video Memory	8 GB GDDR6 SDRAM
Camera	Yes - Full HD
Resolution	0.92 Megapixel (standard),0.3 Megapixel (infrared)
Video Resolutions	1920 x 1080
Frame Rate	30 frames per second
Camera Features	Privacy shutter,IR camera,74.9 degrees,70 degrees (IR camera)
Sound	Two tweeters,two woofers,dual array microphone
Codec	Realtek ALC3281

Input

Type	Keyboard,touchpad
Keyboard Backlight	Yes
Numeric Keypad	Yes
Features	Precision touchpad,100-key

Communications

Wireless	Bluetooth,802.11a/b/g/n/ac/ax (Wi-Fi 6E)
Wireless Controller	Intel Wi-Fi 6E AX 211
Network Interface	Gigabit Ethernet
Ethernet Controller	Intel I219-LM
Features	Dual stream (2x2)

Battery

Technology	6-cell Lithium Ion
Capacity	93 Wh

AC Adapter

Input	AC 100-240 V (50/60 Hz)
Output	240 Watt,19.5 V,12.3 A

Connections &Expansion

Interfaces	HDMI 2 x USB4 (supports Thunderbolt 4,DisplayPort 1.4 Alt Mode) USB-C 3.2 Gen 2 (supports DisplayPort 1.4 Alt Mode) USB 3.2 Gen 1 (PowerShare)
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	USB 3.2 Gen 1 LAN Headphone/microphone combo jack
Memory Card Reader	Yes (SD Card,SDHC Card,SDXC Card)

Software

Software Included	Intel Rapid Storage Technology,Microsoft Office (30 days trial,excludes office licence)
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Miscellaneous

Colour	Grey
Integrated Options	Accelerometer,ambient light sensor,proximity sensor,hall sensor
Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip,smart card reader
Features	Chassis intrusion detection,ExpressCharge
Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Noble Wedge security slot
Included Accessories	Power adapter
Compliant Standards	FIPS 140-2,TCG Certified
Pricing Type	Build To Plan (BTP)

Dimensions & Weight

Dimensions (WxDxH)	39.8 cm x 26.502 cm x 2.67 cm
Weight	3.02 kg

Sustainability Information

EPEAT Compliant	EPEAT Gold
ENERGY STAR Certified	Yes

Manufacturer Warranty

Bundled Services	3 Years ProSupport
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	35 °C
Humidity Range Operating	10 - 90% (non-condensing)
Shock Tolerance (operating)	110 g @ 2 ms half-sine pulse
Shock Tolerance (non-operating)	160 g @ 2 ms half-sine pulse
Vibration Tolerance (operating)	0.66 g @ RMS (random)
Vibration Tolerance (non-operating)	1.3 g @ RMS (random)

What's in the box

Dell Precision 7780
Power adapter

*TD SYNEX is not responsible for errors in the documentation of products.