



Predator Helios Neo 165 AI

PHN165-I51-98VS



- Processor: Intel® Core™ Ultra 9 386H
- Display: 16" Acer CineCrystal™ WQXGA OLED 165Hz
- Memory: 64 GB DDR5 RAM
- Mass storage: 1.000 GB PCIe Gen4 SSD
- Graphics card: NVIDIA® GeForce RTX™ 5060
- Operating system: Linux (eShell)

165_{HZ}





Acer PHN16S-I51-98VS

SPECIFICATIONS



Ordering Information

Series	Predator Helios Neo 16S AI
Model	PHN16S-I51-98VS
Article number	NH.U3VEC.005
EAN	4711474999726
Short description	16" Acer CineCrystal™ WQXGA OLED 165Hz / Intel® Core™ Ultra 9 386H / 64 GB DDR5 RAM / 1.000 GB PCIe Gen4 SSD / NVIDIA® GeForce RTX™ 5060 / Linux (eShell) / Abyssal Black

Operating System

Operating System	Linux (eShell)
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Housing

Housing colour	Abyssal Black
Component door	-
Dimensions	356.78 x 275.5 x 18.9 mm (W x D x H)
Weight	2.2 kg
Passively cooled (fanless)	-

Display

Display size	16 inch (40.46 cm)
Display type	Acer CineCrystal™ WQXGA OLED 165Hz display with 100% DCI-P3 / Adobe-RGB color space coverage
Display resolution in pixel	2.560 x 1.600
Aspect ratio	16:10

Processor

Processor	Intel® Core™ Ultra 9 Processor 386H
Clock frequency	2.1 GHz GHz base clock (Up to 4.9 GHz max. performance frequency)
Cache	18 MB Intel® Smart Cache
Processing cores / threads	4 Performance-cores + 8 Efficient-cores + 4 Low-power Efficient-cores / 16 Threads
NPU	Intel® AI Boost (Up to 50 TOPS)

Storage and drives

Memory	64 GB DDR5 RAM
Memory configuration	2 x 32 GB DDR5 RAM
Maximum RAM	Up to 64 GB DDR5 RAM (2x 32 GB soDIMM)
Mass storage	1.000 GB PCIe Gen4 SSD

Graphics card

Graphics card	NVIDIA® GeForce RTX™ 5060
Graphics card memory dedicated	8GB GDDR7 VRAM

Connections

LAN	Killer™ Gigabit Ethernet E3100G
Wireless LAN	Intel® Wi-Fi 6E (802.11 ax)
Wireless WAN / SIM-Card	-
Wireless Gigabit	-
Bluetooth	-
NFC	-

IO ports

HDMI	1x HDMI® 2.1
Displayport	via USB Type-C
Thunderbolt	1x Thunderbolt™ 4 (via USB Type-C)
USB 3.2	5x (2x Type-C Gen 2, 1x Type-A Gen 1, 1x Type-A Gen 2, 1x Type-A Gen 2 mit Power Off USB Charging)
USB 3.1	-
USB 3.0	-
USB 2.0	-
USB 4.0	-
Ethernet (RJ-45)	Yes
Cardreader	MicroSD cardreader
Smart card reader	-
Audio port	1x 3.5 mm speaker/headphone/line-out (supports headsets with integrated microphone)
Docking port	-



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Input

Keyboard	TBD
Keyboard layout	US International / Hebrew
Backlit keyboard	Yes (RGB backlight)
Touchpad	-

Security

Fingerprint sensor	-
Kensington Lock	-
Security software	-

Audio and video

Audio	DTS® X: Ultra Audio, Acer TrueHarmony, Acer Purified, AI noise reduction compatible with Cortana with Voice
Speaker	Two built-in stereo speakers
Microphone	Three built-in microphones
Webcam	FHD Webcam

Battery and power adapter

Battery	Li-Ion battery (4 cells / 92 Wh)
Battery lifetime	Up to 15 hours (based on video playback test results)
Power adapter	230W adapter (50% PCR-plastic)
Battery built in	-

Software

Other software	Acer LiveArt, Acer QuickPanel, Acer VisionArt, PredatorSense V5 (NB)
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Special features

Special features	-
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Warranty

Warranty	3 years Carry-In Service
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Logistics

Quantity per layer	20
Quantity per europallet	60
Quantity per tower	100
Quantity per container	1100
Carton dimensions / weight	543.0 x 341.0 x 80.0 mm (W x D x H) / 4.14 kg