Acer Predator Helios 16 AI OLED
(PH16-73-99QG)

- Processor: Intel® Core™ Ultra 9 Processor 275HX
- Display: 16" Acer CineCrystal™ WQXGA OLED 240Hz
- Memory: 64 GB DDR5 RAM
- Mass storage: 1.000 GB M.2 PCIe Gen5 SSD + 1.000 GB M.2 PCIe Gen4 SSD
- Graphics card: NVIDIA® GeForce RTX™ 5090
- Operating system: Windows 11 Home (64 Bit)

intel CORE ULTRA 9 | OLED — OLED Panel | Windows 11 | 240Hz | DDR5 | nvidia GEFORCE RTX

Ordering Information

Series	Acer Predator Helios 16 AI OLED
Model name	PH16-73-99QG
Part number	NH.QW0EC.002
EAN	4711474479235
Short description	16" Acer CineCrystal™ WQXGA OLED 240Hz / Intel® Core™ Ultra 9 Processor 275HX / 64 GB DDR5 RAM / 1.000 GB M.2 PCIe Gen5 SSD + 1.000 GB M.2 PCIe Gen4 SSD / NVIDIA® GeForce RTX™ 5090 / Windows 11 Home (64 Bit) / Abyssal Black

Operating System

Operating System	Windows 11 Home (64 Bit)

Housing

Housing / Color	Abyssal Black
Component door	–
Dimensions	357.78 x 277.55 x 29.6 mm (W x D x H)
Weight	2.7 kg
Passively cooled (fanless)	–

Display

Display size	16 inches (40.64 cm)
Display type	Acer CineCrystal™ WQXGA OLED 240Hz display with 100% DCI-P3 / Adobe-RGB color space coverage
Display resolution in pixel	2560 x 1600
Aspect ratio	16:10

Processor

Processor	Intel® Core™ Ultra 9 Processor 275HX
Clock frequency	2.1 GHz base clock (Up to 5.4 GHz max. performance clock rate)
Cache	36 MB
Processing cores / threads	8 Performance-cores + 16 Efficient-cores / 24 Threads
NPU	Intel® AI Boost (up to 13 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 M.2 PCIe Gen5 Solid-State-Drive (SSD) + 1.000 GB M.2 PCIe Gen4 Solid-State-Drive (SSD)

Graphics card

Graphics card	NVIDIA® GeForce RTX™ 5090
Graphics card memory dedicated	24 GB GDDR7 VRAM
Maximum Graphic Power	175
Maximum Boost Frequency	1697

Connections

LAN	–
Wireless LAN	Killer™ Wi-Fi 7 1750x (802.11 a/b/g/n/ac/ax/be)
Wireless WAN / SIM-Card	–
Wireless Gigabit	–
Bluetooth	Bluetooth® 5.4
NFC	–

IO ports

HDMI	1x HDMI® 2.1
Displayport	via USB Type-C
Thunderbolt	Thunderbolt™ 5 (via USB Type-C)
USB 3.2	5x (2x Type-C Gen 2, 2x Type-A Gen 1, 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	–

Acer PH16-73-99QG   SPECIFICATIONS

Input

Keyboard	Acer FineTip RGB mini-LED Per-Key keyboard (100% Anti-ghosting)
Keyboard layout	US International / Hebrew
Backlit keyboard	Yes (Per-Key RGB backlit)
Touchpad	Multi-Gesture Corning® Gorilla® Glass Touchpad

Security

Fingerprint sensor	-
Kensington Lock	Yes
Security software	Trusted Platform Module (TPM)

Audio and video

Audio	DTS® X: Ultra Audio, Acer Purified, Acer TrueHarmony, Intel® Bluetooth® LE Audio, 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 / 90 Wh)
Battery lifetime	Up to 5 hours
Power adapter	330W AC Adapter (50% PCR-Plastic)
Battery built in	-

Software

Office	1 month trial for new Microsoft 365 customers. 3 months Gamepass. Credit card required
Other software	PredatorSense, Planet9, Acer Product Registration, Acer QuickPanel

Special features

Special features	FHD webcam, OLED display, aluminum A cover, Thunderbolt™ 5, 6th generation Aeroblade 3D cooling, Liquid Metal, Vector heat pipe, Predator Premium Service

Warranty

Warranty	3 years Carry-In Service

Logistics

Quantity per layer	16
Quantity per europallet	48
Quantity per tower	80
Quantity per container	880
Carton dimensions / weight	551.0 x 392.0 x 97.0 mm (W x D x H) / 6,41 kg

Accessories and service

Special accessories included	Predator MagKey 4.0 Box (for the WASD and arrow keys)