



## LG Gram Pro AI 16Z90TS-G.AU79A1 laptop Intel Core Ultra 7 256V 40.6 cm (16") 2.5K 16 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home, Metal Grey



**Brand :** LG

**Product family:** Gram Pro

**Product code:** 16Z90TS-G.AU79A1

**Product name :** LG gram Pro AI 16Z90TS-G.AU79A1 laptop Intel Core Ultra 7 256V 40.6 cm (16") 2.5K 16 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home, Metal Grey

- 16" 16:10 WQXGA (2560x1600) IPS display
- Windows 11 / Copilot+ PC
- AI optimized Intel® Core™ Ultra Processor / 47 TOPS NPU
- gram Hybrid AI / LG gram Link
- 1,239g Lightweight / 77Wh smart battery
- 31-144Hz Variable Refresh Rate

16" WQXGA (2560 x 1600), 31~144Hz VRR, 16GB 1TB, 1500:1, IPS, WiFi-7, BT5.4, 77 Wh Li-Ion, Windows 11 Home

LG Gram Pro AI 16Z90TS-G.AU79A1 laptop Intel Core Ultra 7 256V 40.6 cm (16") 2.5K 16 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home, Metal Grey. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 256V, Processor frequency: 4.8 GHz. Display diagonal: 40.6 cm (16"), HD type: 2.5K, Display resolution: 2560 x 1600 pixels. Internal memory: 16 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics 140V. Operating system installed: Windows 11 Home. Product colour: Grey

### Design

Colour name	Metal Grey
Product type *	Laptop
Product colour *	Grey
Form factor *	Clamshell
Housing material	Magnesium
Market positioning	High performance
Introduction year	2025
Country of origin	China
Original brand name	LG

### Display

Display diagonal *	40.6 cm (16")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✗
HD type	2.5K
Panel type	IPS-Pro
Native aspect ratio	16:10
Display surface	Matt
Anti-glare screen	✓
Display brightness	400 cd/m²
Display diagonal (metric)	40.6 cm
RGB colour space	DCI-P3
Colour gamut	99%
Maximum refresh rate	144 Hz
Contrast ratio (typical)	1500:1

### Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 7
Processor generation	Intel Core Ultra (Series 2)
Processor model *	256V

### Graphics

On-board graphics card 6K support	✓
On-board graphics card 8K support	✓
Graphics card Open GL support	✓

### Audio

Audio system	Dolby Atmos
Number of built-in speakers	2
Speaker power	3 W
Built-in microphone	✓
Number of microphones	2

### Camera

Front camera	✓
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD

### Network

Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
Mobile network connection *	✗
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 7 BE201
WLAN controller manufacturer	Intel
Bluetooth	✓
Bluetooth version	5.4

### Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB4 Gen 3x2 ports quantity	2
HDMI ports quantity *	1

Processor		Ports & interfaces	
Processor cores	8	HDMI version	2.1
Processor threads	8	Thunderbolt 4 ports quantity	2
Processor boost frequency	4.8 GHz	Intel® Thunderbolt 4	✓
Processor frequency *	4.8 GHz	Combo headphone/mic port	✓
Performance cores	4	USB Type-C DisplayPort Alternate Mode	✓
Low Power Efficient-cores	4	Keyboard	
Performance-core Max Turbo Frequency	4.8 GHz	Pointing device	Touchpad
Low Power Efficient-core Max Turbo Frequency	3.7 GHz	Numeric keypad *	✓
Performance-core base frequency	2.2 GHz	Keyboard backlit	✓
Low Power Efficient-core Base Frequency	2.2 MHz	Full-size keyboard	✓
Processor cache	12 MB	Keyboard number of keys	98
Processor cache type	Smart Cache	Keyboard layout	QWERTY
Processor base power	17 W	Copilot key	✓
Maximum turbo power	37 W	Software	
<b>Neural processor unit (NPU)</b>		Operating system architecture	64-bit
Neural processor unit (NPU)	Intel AI Boost	gram Chat, LG Smart Assistant, LG	
Sparsity support	✓	gram Link, LG Security Guard, LG	
Windows Studio effects support	✓	Lively Theme, LG Glance by	
AI datatype support on NPU	Int8	Mirametrix®, Dolby Atmos, Intel®	
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, WebNN, Windows ML	Connectivity Performance Suite, LG	
Total processor performance up to	115 TOPs	xboom buds	
NPU performance up to	47 TOPs	McAfee Live Safe (30 Days Trial),	
GPU performance up to	64 TOPs	Microsoft 365 (30 Days Trial)	
<b>Memory</b>		Operating system installed *	Windows 11 Home
Internal memory *	16 GB	Microsoft Copilot	✓
Internal memory type	LPDDR5x-SDRAM	Copilot+ PC	✓
Memory clock speed	8533 MHz	<b>Processor special features</b>	
Memory form factor	On-board	Video decode engine	✓
Maximum internal memory *	16 GB	Video encode engine	✓
Memory channels	Dual-channel	<b>Brand-specific features</b>	
<b>Storage</b>		Brand specific technologies	Intelligent Privacy, Wide color (P3)
Total storage capacity *	1 TB	<b>Battery</b>	
Storage media *	SSD	Battery technology	Lithium-Ion (Li-Ion)
Total SSDs capacity	1 TB	Battery capacity *	77 Wh
Number of SSDs installed	1	<b>Power</b>	
SSD capacity	1 TB	AC adapter power	65 W
SSD interface	PCI Express 4.0	USB Type-C charging port *	✓
NVMe	✓	USB Type-C required charging power (max) *	65 W
SSD form factor	M.2	USB Power Delivery (USB PD)	✓
Optical drive type *	✗	<b>Security</b>	
<b>Graphics</b>		Cable lock slot	✓
Discrete graphics card model *	Not available	Cable lock slot type	Kensington
On-board graphics card *	✓	Face recognition	✓
On-board GPU manufacturer	Intel	Windows Hello	✓
Discrete graphics card *	✗	<b>Certificates</b>	
On-board graphics card family	Intel Arc Graphics	Certification	MIL-STD-810H
On-board graphics card model *	Intel Arc Graphics 140V	<b>Weight &amp; dimensions</b>	
On-board graphics card cores	8	Width	357.7 mm
On-board graphics card 4K support	✓	Depth	251.6 mm
		Height (front)	1.24 cm
		Height (rear)	1.28 cm
		Weight *	1.24 kg

**Packaging data**

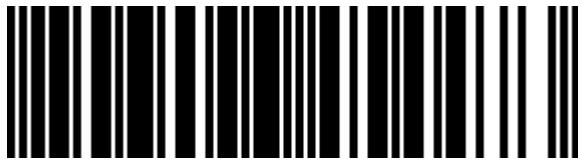
Package width	475 mm
Package depth	290 mm
Package height	60 mm
Package weight	2.35 kg

**Packaging content**

AC adapter included *	✓
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**Other features**

Warranty period	1 year(s)
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