



## LG Gram Pro 17Z90TR-E 17" Hybrid AI Laptop - Intel® Core™ Ultra 7 255H, NVIDIA GeForce RTX5050 GPU, 1TB SSD, 32 GB RAM - Black - [2025]

**Brand :** LG

**Product family:** Gram Pro

**Product code:** 17Z90TR-E.AD88A1

**Product name :** 17Z90TR-E 17"

Hybrid AI Laptop - Intel® Core™  
Ultra 7 255H, NVIDIA GeForce  
RTX5050 GPU, 1TB SSD, 32 GB  
RAM - Black - [2025]



- 2.5K IPS screen with VRR - Smooth & Crips image with vivid
- Intel® Core™ Ultra 7 255H Processor/ Evo™ Edition
- NVIDIA GeForce RTX5050 with GDDR7 8GB Laptop GPU
- 32GB of RAM — Ideal for multitasking and demanding jobs
- 1TB SSD - Tons of storage and super-fast loading
- gram Hybrid AI - cloud and on-device AI productivity
- 1,479g Ultra-light & superslim / 90Wh smart battery

LG gram Pro 17Z90TR-E, 17" Hybrid AI Laptop - Intel® Core™ Ultra 7 255H, NVIDIA GeForce RTX5050 with GDDR7 8GB Laptop GPU, 1TB SSD, 32 GB RAM, - Black - [2025]

Design		Graphics	
Colour name	Obsidian Black	On-board graphics card model *	Intel Arc 140T
Product type *	Ultrabook	CUDA	✓
Product colour *	Black	CUDA cores	2560
Form factor *	Clamshell	Audio	
Housing material	Magnesium	Audio system	Dolby Atmos
Market positioning	High performance	Spatial audio	✓
Introduction year	2025	Number of built-in speakers	2
Country of origin	China	Speaker power	6 W
Original brand name	LG gram Pro	Built-in subwoofer	✓
Display		Built-in microphone	✓
Display diagonal *	43.2 cm (17")	Number of microphones	2
Display resolution *	2560 x 1600 pixels	Microphone modes	Voice Isolation
Touchscreen *	✗	Camera	
HD type	2.5K	Front camera	✓
Panel type	IPS-Pro	Front camera resolution	1920 x 1080 pixels
Native aspect ratio	16:10	Front camera HD type	Full HD
Display surface	Matt	Infrared (IR) camera	✓
Anti-glare screen	✓	Privacy camera	✓
Display brightness	400 cd/m²	Network	
RGB colour space	DCI-P3	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Colour gamut	99%	Wi-Fi standards	Wi-Fi 7 (802.11be)
Maximum refresh rate	144 Hz	Mobile network connection *	✗
Contrast ratio (typical)	1500:1	Ports & interfaces	
Processor		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor manufacturer *	Intel	USB4 Gen 3x2 ports quantity	2
Processor family *	Intel Core Ultra 7	HDMI ports quantity *	1
Processor generation	Intel Core Ultra (Series 2)	HDMI version	2.1
Processor model *	255H	Thunderbolt 4 ports quantity	2
Processor cores	16	Intel® Thunderbolt 4	✓
Processor threads	16	Headphone outputs	1
Processor boost frequency	5.1 GHz	Microphone in	✓
Processor frequency *	5.1 GHz		
Performance cores	6		
Efficient cores	8		

Processor		Ports & interfaces	
Low Power Efficient-cores	2	Combo headphone/mic port	✓
Performance-core Max Turbo Frequency	5.1 GHz	USB Type-C DisplayPort Alternate Mode	✓
Efficient-core Max Turbo Frequency	4.4 GHz	<b>Keyboard</b>	
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Pointing device	Touchpad
Performance-core base frequency	2 GHz	Numeric keypad *	✓
Efficient-core base frequency	1.5 GHz	Keyboard backlit	✓
Low Power Efficient-core Base Frequency	700 MHz	Full-size keyboard	✓
Processor cache	24 MB	Keyboard number of keys	101
Processor cache type	Smart Cache	Keyboard layout	QWERTY
Processor base power	28 W	Copilot key	✓
Maximum turbo power	115 W	<b>Software</b>	
Neural processor unit (NPU)		Operating system architecture	64-bit
Neural processor unit (NPU)	Intel AI Boost	Microsoft Copilot	✓
Sparsity support	✓	Pre-installed software	gram Chat, LG Smart Assistant, LG gram Link, LG Security Guard, LG Lively Theme, LG Glance by Mirametrix®, Dolby Atmos, Intel® Connectivity Performance Suite, LG xboom buds
Windows Studio effects support	✓		
AI datatype support on NPU	Int8		
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, WebNN	Trial software	McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial)
Total processor performance up to	96 TOPs	Operating system installed *	Windows 11 Home
NPU performance up to	13 TOPs	<b>Processor special features</b>	
GPU performance up to	74 TOPs	Video decode engine	✓
Memory		Video encode engine	✓
Internal memory *	32 GB	<b>Brand-specific features</b>	
Internal memory type	LPDDR5x-SDRAM	Brand specific technologies	Intelligent Privacy, Wide color (P3)
Memory clock speed	8400 MHz	<b>Battery</b>	
Memory channels	Dual-channel	Battery technology	Lithium-Ion (Li-Ion)
Storage		Battery capacity *	90 Wh
Total storage capacity *	1 TB	Continuous video playback time	27 h
Storage media *	SSD	<b>Power</b>	
Total SSDs capacity	1 TB	AC adapter power	100 W
Number of SSDs installed	1	USB Type-C charging port *	✓
SSD capacity	1 TB	USB Type-C required charging power (min) *	45 W
SSD interface	PCI Express 4.0	USB Power Delivery (USB PD)	✓
NVMe	✓	<b>Security</b>	
SSD form factor	M.2	Cable lock slot	✓
Optical drive type *	✗	Cable lock slot type	Kensington
Graphics		Face recognition	✓
Discrete GPU manufacturer	NVIDIA	Windows Hello	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5050	<b>Operational conditions</b>	
Discrete graphics card memory	8 GB	Drop proof	122 cm
Discrete graphics memory type	GDDR7	<b>Certificates</b>	
On-board graphics card *	✓	Certification	MIL-STD-810H
On-board GPU manufacturer	Intel	<b>Weight &amp; dimensions</b>	
Discrete graphics card *	✓	Width	379 mm
On-board graphics card family	Intel Arc Graphics	Depth	265.4 mm
		Height (front)	1.45 cm
		Height (rear)	1.59 cm
		Weight *	1.48 kg
		<b>Packaging data</b>	
		Package width	499 mm

Packaging data	
Package depth	307 mm
Package height	60 mm
Package weight	2.5 kg
Packaging content	
AC adapter included *	✓
Other features	
Warranty period	1 year(s)

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