



## LG Gram 17Z90T-G.AD88A1 laptop Intel Core Ultra 7 255H Ultraportable 43.2 cm (17") 2.5K 32 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home Black

**Brand :** LG

**Product family:** Gram

**Product code:** 17Z90T-  
G.AD88A1

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LG gram 17Z90T-G.AD88A1 laptop Intel Core Ultra 7 255H Ultraportable 43.2 cm (17") 2.5K 32 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home, Black  
LG Gram 17Z90T-G.AD88A1. Product type: Ultraportable, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 255H, Processor frequency: 5.1 GHz. Display diagonal: 43.2 cm (17"), HD type: 2.5K, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc 140T. Operating system installed: Windows 11 Home. Product colour: Black

Design		Audio	
Colour name	Obsidian Black	Number of built-in speakers	2
Product type *	Ultraportable	Speaker power	2 W
Product colour *	Black	Built-in subwoofer	✓
Form factor *	Clamshell	Built-in microphone	✓
Housing material	Magnesium	Number of microphones	2
Market positioning	Premium	Camera	
Country of origin	China	Front camera	✓
Original brand name	LG gram	Front camera resolution	1920 x 1080 pixels
Display		Front camera HD type	Full HD
Display diagonal *	43.2 cm (17")	Infrared (IR) camera	✗
Display resolution *	2560 x 1600 pixels	Network	
Touchscreen *	✗	Wi-Fi	✓
HD type	2.5K	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Panel type	IPS-Pro	Wi-Fi standards	Wi-Fi 7 (802.11be)
LED backlight	✓	Mobile network connection *	✗
Native aspect ratio	16:10	Antenna type	2x2
Display surface	Matt	WLAN controller model	Intel Wi-Fi 7 BE201
Anti-glare screen	✓	WLAN controller manufacturer	Intel
Screen shape	Flat	Bluetooth	✓
Display brightness	350 cd/m²	Bluetooth version	5.3
RGB colour space	DCI-P3	Ports & interfaces	
Colour gamut	99%	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Maximum refresh rate	60 Hz	Thunderbolt technology	✓
Contrast ratio (typical)	1200:1	Thunderbolt version	4
DCI-P3 coverage	99%	USB4 Gen 3x2 ports quantity	2
Processor		HDMI ports quantity *	1
Processor manufacturer *	Intel	HDMI version	2.1
Processor family *	Intel Core Ultra 7	Thunderbolt 4 ports quantity	2
Processor generation	Intel Core Ultra (Series 2)	Headphone outputs	1
Processor model *	255H	Microphone in	✓
Processor cores	16	Combo headphone/mic port	✓
Processor threads	16	Headphone connectivity	3.5mm / Bluetooth
Processor boost frequency	5.1 GHz	USB Type-C DisplayPort Alternate Mode	✓
Processor frequency *	5.1 GHz	Keyboard	
Performance cores	6	Pointing device	Touchpad
Efficient cores	8		
Low Power Efficient-cores	2		
Performance-core Max Turbo Frequency	5.1 GHz		

Processor		Keyboard	
Efficient-core Max Turbo Frequency	4.4 GHz	Numeric keypad *	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Keyboard backlit	✓
Performance-core base frequency	2 GHz	Keyboard backlit colour	White
Efficient-core base frequency	1.5 GHz	Full-size keyboard	✓
Low Power Efficient-core Base Frequency	700 MHz	Keyboard number of keys	101
Processor cache	24 MB	Windows keys	✓
Processor cache type	Smart Cache	Keyboard layout	QWERTY
Processor codename	Lunar Lake	Copilot key	✓
Neural processor unit (NPU)		Software	
Neural processor unit (NPU)	Intel AI Boost	Operating system architecture	64-bit
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	Trial software	McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial)
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, WebNN, Windows ML	Operating system installed *	Windows 11 Home
Total processor performance up to	96 TOPs	Microsoft Copilot	✓
NPU performance up to	13 TOPs		
GPU performance up to	74 TOPs		
Memory		Processor special features	
Internal memory *	32 GB	Video decode engine	✓
Internal memory type	LPDDR5x-SDRAM	Video encode engine	✓
Memory clock speed	7467 MHz		
Memory form factor	On-board		
Maximum internal memory *	32 GB		
Memory channels	Dual-channel		
Storage		Brand-specific features	
Total storage capacity *	1 TB	Brand specific technologies	Intelligent Privacy, Wide color (P3)
Storage media *	SSD		
Total SSDs capacity	1 TB		
Number of SSDs installed	1		
SSD capacity	1 TB		
SSD interface	M.2, PCI Express		
SSD form factor	M.2		
Optical drive type *	✗		
Graphics		Battery	
On-board graphics card *	✓	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card *	✗	Battery capacity *	77 Wh
On-board graphics card family	Intel Arc Graphics		
On-board graphics card model *	Intel Arc 140T		
On-board graphics card cores	8		
On-board graphics card 4K support	✓		
On-board graphics card 6K support	✓		
On-board graphics card 8K support	✓		
Audio		Power	
Audio system	Dolby Atmos	USB Type-C charging port *	✓
		USB Type-C required charging power (min) *	65 W
		USB Power Delivery (USB PD)	✓
		Security	
		Cable lock slot	✓
		Cable lock slot type	Kensington
		Fingerprint reader	✓
		Security management description	LG Security
		Operational conditions	
		Drop proof	122 cm
		Certificates	
		MIL-STD-810G compliant	✓
		Adapting card types (test_feature)	Compliant with the following methods for MIL-STD-810H: Method 500.6 Low Pressure (Altitude) (Procedure I - Storage and Method and Procedure II - Operation); Method 501.7 High Temperature (Procedure I - Storage and Procedure II - Operation); Method 502.7 Low Temperature (Procedure I - Storage and Procedure II - Operation); Method 509.7 - Salt Fog Test; Method 510.7 - Dust; Method 514.8 - Vibration; Method 516.8 Shock (Procedure I - Functional and Procedure IV - Transit Drop).
		Certification	MIL-STD-810H

Weight & dimensions	
Width	378.8 mm
Depth	258.8 mm
Height (front)	1.6 cm
Height (rear)	1.78 cm
Weight *	1.35 kg
Packaging data	
Package width	499 mm
Package depth	370 mm
Package height	60 mm
Package weight	2.3 kg
Packaging content	
AC adapter included *	✓
Manual	✓
Warranty card	✓
Power cord included	✓
Other features	
Warranty period	1 year(s)

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