



## LG Gram AI 14Z90T-G.AA75A1

**Brand :** LG

**Product family:** Gram

**Product code:** 14Z90T-G.AA75A1

**Product name :** LG gram AI 14Z90T-G.AA75A1

LG Gram AI 14Z90T-G.AA75A1. Product type: Ultraportable, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 255H. Display diagonal: 35.6 cm (14"), HD type: Full HD+, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Arc 140T. Operating system installed: Windows 11 Home. Product colour: Black. Weight: 1.12 kg

Design		Audio	
Colour name	Obsidian Black	Number of built-in speakers	2
Product type *	Ultraportable	Speaker power	1.5 W
Product colour *	Black	Number of microphones	2
Form factor *	Clamshell	Camera	
Housing material	Magnesium	Front camera	✓
Market positioning	Everyday	Front camera resolution	1920 x 1080 pixels
Introduction year	2025	Front camera HD type	Full HD
Country of origin	China	Infrared (IR) camera	✓
Original brand name	LG gram	Network	
Display		Wi-Fi	✓
Display diagonal *	35.6 cm (14")	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Display resolution *	1920 x 1080 pixels	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Touchscreen *	✗	Mobile network connection *	✗
HD type	Full HD+	Antenna type	2x2
Panel type	IPS-Pro	WLAN controller model	Intel Wi-Fi 6E AX211
LED backlight	✓	WLAN controller manufacturer	Intel
Native aspect ratio	16:10	Bluetooth	✓
Display surface	Matt	Bluetooth version	5.3
Anti-glare screen	✓	Ports & interfaces	
Screen shape	Flat	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Display brightness	350 cd/m <sup>2</sup>	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
RGB colour space	DCI-P3	Thunderbolt technology	✓
Colour gamut	99%	Thunderbolt version	4
Maximum refresh rate	60 Hz	USB4 Gen 3x2 ports quantity	1
Contrast ratio (typical)	1200:1	HDMI ports quantity *	1
DCI-P3 coverage	99%	HDMI version	2.1
Processor		Thunderbolt 4 ports quantity	1
Processor manufacturer *	Intel	Headphone outputs	1
Processor family *	Intel Core Ultra 7	Microphone in	✓
Processor model *	255H	Combo headphone/mic port	✓
Processor cores	16	Headphone connectivity	3.5mm / Bluetooth
Processor threads	16	USB Type-C DisplayPort Alternate Mode	✓
Processor boost frequency	4.8 GHz	Keyboard	
Performance cores	6	Pointing device	Touchpad
Efficient cores	8	Numeric keypad *	✓
Low Power Efficient-cores	2	Keyboard backlit	✓
Performance-core Max Turbo Frequency	5.1 GHz	Keyboard backlit colour	White
Efficient-core Max Turbo Frequency	4.4 GHz	Full-size keyboard	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz		
Performance-core base frequency	2 GHz		
Efficient-core base frequency	1.5 GHz		

Processor		Keyboard	
Low Power Efficient-core Base Frequency	700 MHz	Keyboard number of keys	80
Processor cache	24 MB	Windows keys	✓
Processor cache type	Smart Cache	Keyboard layout	QWERTY
Processor codename	Arrow 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	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		Battery	
Internal memory *	16 GB	Battery technology	Lithium-Ion (Li-Ion)
Internal memory type	LPDDR5x-SDRAM	Battery capacity *	72 Wh
Memory clock speed	7467 MHz		
Memory form factor	On-board		
Maximum internal memory *	16 GB		
Memory channels	Dual-channel		
Storage		Power	
Total storage capacity *	512 GB	USB Type-C charging port *	✓
Storage media *	SSD	USB Type-C required charging power (min) *	45 W
Total SSDs capacity	512 GB	USB Type-C required charging power (max) *	65 W
Number of SSDs installed	1	USB Power Delivery (USB PD)	✓
SSD capacity	512 GB		
SSD interface	M.2, PCI Express		
SSD form factor	M.2		
Optical drive type *	✗		
Graphics		Security	
On-board graphics card *	✓	Cable lock slot	✓
Discrete graphics card *	✗	Cable lock slot type	Kensington
On-board graphics card family	Intel Arc Graphics	Fingerprint reader	✗
On-board graphics card model *	Intel Arc 140T	Face recognition	✓
On-board graphics card cores	8	Security management description	LG Security
On-board graphics card 4K support	✓		
On-board graphics card 6K support	✓		
Audio		Operational conditions	
Audio system	Dolby Atmos	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	312 mm
		Depth	214.3 mm
		Height (front)	1.57 cm
		Height (rear)	1.69 cm
		Weight *	1.12 kg
		Packaging data	
		Package width	434 mm
		Package depth	270 mm

Packaging data	
Package height	62 mm
Package weight	1.95 kg
Packaging content	
AC adapter included *	✓
Manual	✓
Warranty card	✓
Power cord included	✓

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