LG

LG Gram AI 17Z90TL-G.AU78A1
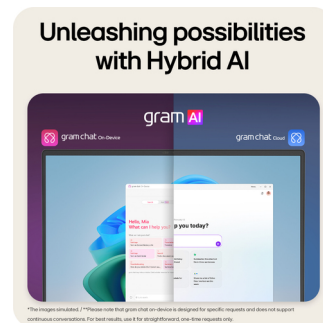
Brand : LG

Product family: Gram

Product code: 17Z90TL-G.AU78A1

Product name : LG gram AI 17Z90TL-G.AU78A1

- 17" 16:10 WQXGA (2560x1600) Anti-glare IPS display
- Windows 11 / Copilot+ PC
- All-around AI Intel® Core™ Ultra Processor / 16GB LPDDR5x RAM / 1TB SSD Gen4
- gram Hybrid AI / LG gram Link
- 1,389g Lightweight / 77Wh High capacity battery
- Dolby Atmos

LG gram AI 17Z90TL 17 inch Ultra-Lightweight Laptop, Intel Core Ultra 7 256V Processor (Lunar Lake), 16GB RAM, 1TB SSD, gram Hybrid AI, Copilot+ PC, Windows 11 Home (Obsidian Black)

LG Gram AI 17Z90TL-G.AU78A1. Product type: Ultraportable, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 256V. Display diagonal: 43.2 cm (17"), 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: Black. Weight: 1.39 kg

Intel® Ultra Processor evolved for AI
Up to 47 TOPS NPU
Up to 64 TOPS GPU

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Unleashing possibilities with Hybrid AI

gram AI
gram chat On-Device
gram chat Cloud

*The images simulated. / **Please note that gram chat on-device is designed for specific requests and does not support continuous conversations. For best results, use it for straightforward, one-time requests only.

Design

Colour name	Obsidian Black
Product type *	Ultraportable
Product colour *	Black
Form factor *	Clamshell
Housing material	Magnesium
Market positioning	Premium
Country of origin	China
Original brand name	LG gram

Display

Display diagonal *	43.2 cm (17")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✘
HD type	2.5K
Panel type	IPS-Pro
LED backlight	✔
Native aspect ratio	16:10
Display surface	Matt
Anti-glare screen	✔
Screen shape	Flat
Display brightness	320 cd/m²
RGB colour space	DCI-P3
Colour gamut	99%
Maximum refresh rate	60 Hz
Contrast ratio (typical)	1500:1
DCI-P3 coverage	99%

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 7

Camera

Infrared (IR) camera	✔

Network

Wi-Fi	✔
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	5.3

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Thunderbolt technology	✔
Thunderbolt version	4
USB4 Gen 3x2 ports quantity	2
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 4 ports quantity	2
Headphone outputs	1
Microphone in	✔
Headphone connectivity	3.5mm / Bluetooth
USB Type-C DisplayPort Alternate Mode	✔

Keyboard

Pointing device	Touchpad

Processor

Processor model *	256V
Processor cores	8
Processor threads	8
Processor boost frequency	4.8 GHz
Processor cache	12 MB
Processor cache type	Smart Cache
Processor codename	Lunar Lake

Memory

Internal memory *	16 GB
Internal memory type	LPDDR5x-SDRAM
Memory clock speed	8533 MHz
Memory form factor	On-board
Maximum internal memory *	16 GB
Memory channels	Dual-channel

Storage

Total storage capacity *	1 TB
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

On-board graphics card *	✔
Discrete graphics card *	✘
On-board graphics card family	Intel Arc Graphics
On-board graphics card model *	Intel Arc Graphics 140V
On-board graphics card cores	8
On-board graphics card 4K support	✔
On-board graphics card 6K support	✔

Audio

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

Camera

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

Keyboard

Numeric keypad *	✔
Keyboard backlit	✔
Keyboard backlit colour	White
Full-size keyboard	✔
Keyboard number of keys	98
Windows keys	✔
Keyboard layout	QWERTY

Software

Operating system architecture	64-bit
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
Trial software	McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial)
Operating system installed *	Windows 11 Home

Battery

Battery technology	Lithium-Ion (Li-Ion)
Battery capacity *	77 Wh

Power

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 | - Storage and Procedure I| - Operation); Method 502.7 Low Temperature (Procedure I - Storage and Procedure I| - 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 mm
Depth	258.8 mm
Height (front)	1.6 cm
Height (rear)	1.78 cm
Weight *	1.39 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	✔