LG

LG Gram Pro 17Z90SP-E.AA78A1 laptop Intel Core Ultra 7 155H 43.2 cm (17") WQXGA 16 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 3050 Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : LG

Product family: Gram Pro

Product code: 17Z90SP-E.AA78A1

Product name : 17Z90SP-E.AA78A1

- Windows 11 Home
- Intel Core Ultra 7 155H (24MB Cache)
- 43.2 cm (17") WQXGA 2560 x 1600 IPS, NVIDIA GeForce RTX 3050 (4GB GDDR6)
- 16GB (7467MHz) LPDDR5x-SDRAM & 1000GB SSD

Intel Core Ultra 7 155H (24MB Cache), 16GB LPDDR5x-SDRAM, 1000GB SSD, 43.2 cm (17") WQXGA 2560 x 1600 IPS, Intel Arc Graphics, NVIDIA GeForce RTX 3050 (4GB GDDR6), Webcam, Windows 11 Home LG Gram Pro 17Z90SP-E.AA78A1. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 155H. Display diagonal: 43.2 cm (17"), HD type: WQXGA, 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, Discrete graphics card model: NVIDIA GeForce RTX 3050. Operating system installed: Windows 11 Home. Product colour: Black
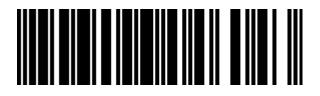
Design

Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Original brand name	LG

Display

Display diagonal *	43.2 cm (17")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✘
HD type	WQXGA
Panel type	IPS
Native aspect ratio	16:10
Anti-glare screen	✔
Display brightness	400 cd/m²
Display diagonal (metric)	43.2 cm
RGB colour space	DCI-P3
Colour gamut	99%
Maximum refresh rate	144 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 7
Processor generation	Intel® Core™ Ultra (Series 1)
Processor model *	155H
Processor cores	16
Processor threads	22
Processor boost frequency	4.8 GHz
Performance cores	6
Efficient cores	8
Low Power Efficient-cores	2
Performance-core Max Turbo Frequency	4.8 GHz
Efficient-core Max Turbo Frequency	3.8 GHz
Low Power Efficient-core Max Turbo Frequency	2.5 GHz
Performance-core base frequency	1.4 GHz
Efficient-core base frequency	0.9 GHz

Storage

NVMe	✔
SSD form factor	M.2
Optical drive type *	✘

Graphics

Discrete graphics card model *	NVIDIA GeForce RTX 3050
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel Arc Graphics
On-board graphics card model *	Intel Arc Graphics
On-board graphics card 4K support	✔
On-board graphics card 6K support	✔
Graphics card Open GL support	✔

Audio

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

Camera

Front camera	✔
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Infrared (IR) camera	✔

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 6E AX211
WLAN controller manufacturer	Intel
Bluetooth	✔
Bluetooth version	5.3

Processor

Low Power Efficient-core Base Frequency	700 MHz
Processor cache	24 MB
Processor cache type	Smart Cache
Processor base power	28 W
Maximum turbo power	115 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Maximum frequency NPU	1.4 GHz
Sparsity support	✓
Windows Studio effects support	✓
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML

Memory

Internal memory *	16 GB
Internal memory type	LPDDR5x-SDRAM
Memory clock speed	7467 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	PCI Express 4.0

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
USB4 Gen 3x2 ports quantity	2
HDMI ports quantity *	1
Intel® Thunderbolt 4	✓
Headphone outputs	1
Combo headphone/mic port	✓
USB Type-C DisplayPort Alternate Mode	✓
USB Power Delivery	✓

Keyboard

Pointing device	Touchpad
Numeric keypad *	✓

Software

Operating system installed *	Windows 11 Home

Battery

Battery technology	Lithium-Ion (Li-Ion)
Battery capacity *	90 Wh
Battery life (max)	27.5 h

Power

AC adapter power	90 W

Weight & dimensions

Width	379.4 mm
Depth	265.4 mm
Height (front)	1.32 cm
Height (rear)	1.46 cm
Weight *	1.38 kg

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