



LG Gram Pro 16Z90SP-A.AA78A1 laptop Intel Core Ultra 7 155H 40.6 cm (16") 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: 16Z90SP-
A.AA78A1

Product name : 16Z90SP-
A.AA78A1

- Intel Core Ultra 7 155H (24MB Cache)
- 40.6 cm (16") WQXGA+ 2880 x 1800 OLED Display
- 16GB (7467MHz) LPDDR5x-SDRAM & 1000GB SSD
- Windows 11 Home
- Ultra - lightweight and Ultra-portable at 1,279g
- Military grade durability with magnesium alloy body
- Black

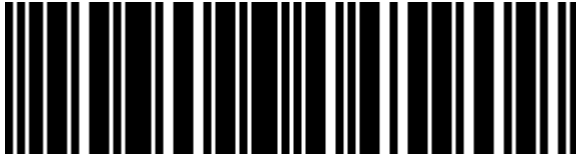
Intel Core Ultra 7 155H (24MB Cache), 16GB LPDDR5x-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA+ 2880 x 1800 OLED, VRR (Various Refresh Rate) 48Hz~120Hz NVIDIA® GeForce RTX™ 3050 4GB GPU, Webcam

LG Gram Pro 16Z90SP-A.AA78A1. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 155H. Display diagonal: 40.6 cm (16"), HD type: WQXGA+, Display resolution: 2880 x 1800 pixels. Internal memory: 16 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. Discrete graphics card model: NVIDIA GeForce RTX 3050. Operating system installed: Windows 11 Home. Product colour: Black. Weight: 1.28 kg



Design		Storage	
Colour name	Obsidian Black	Optical drive type *	✗
Product type *	Laptop	Card reader integrated	✗
Product colour *	Black	Graphics	
Form factor *	Clamshell	Discrete GPU manufacturer	NVIDIA
Housing material	Magnesium	Discrete graphics card model *	NVIDIA GeForce RTX 3050
Market positioning	Performance	Discrete graphics card memory	4 GB
Introduction year	2024	Discrete graphics memory type	GDDR6
Display		On-board graphics card *	✓
Display diagonal *	40.6 cm (16")	Discrete graphics card *	✓
Display resolution *	2880 x 1800 pixels	Audio	
Touchscreen *	✗	Audio system	Dolby Atmos
HD type	WQXGA+	Number of built-in speakers	2
Panel type	OLED	Speaker power	3 W
Native aspect ratio	16:10	Built-in microphone	✓
Anti-glare screen	✓	Camera	
Display brightness	400 cd/m²	Front camera	✓
Display diagonal (metric)	40.6 cm	Front camera HD type	Full HD
RGB colour space	DCI-P3	Infrared (IR) camera	✓
Colour gamut	100%	Network	
Contrast ratio (typical)	100000:1	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor		Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 7	Antenna type	2x2
Processor generation	Intel® Core™ Ultra (Series 1)	WLAN controller model	Intel Wi-Fi 6E AX211
Processor model *	155H	Bluetooth	✓
Processor cores	16	Bluetooth version	5.3
Processor threads	22		
Processor boost frequency	4.8 GHz		

Processor		Ports & interfaces	
Performance cores	6	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Efficient cores	8	USB4 Gen 3x2 ports quantity	2
Low Power Efficient-cores	2	HDMI ports quantity *	1
Performance-core Max Turbo Frequency	4.8 GHz	Thunderbolt 4 ports quantity	2
Efficient-core Max Turbo Frequency	3.8 GHz	Intel® Thunderbolt 4	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Combo headphone/mic port	✓
Performance-core base frequency	1.4 GHz	USB Type-C DisplayPort Alternate Mode	✓
Efficient-core base frequency	0.9 GHz	Keyboard	
Low Power Efficient-core Base Frequency	700 MHz	Pointing device	Touchpad
Processor cache	24 MB	Keyboard layout	QWERTY
Processor cache type	Smart Cache	Numeric keypad *	✓
Processor base power	28 W	Keyboard backlit	✓
Maximum turbo power	115 W	Keyboard number of keys	98
Neural processor unit (NPU)		Software	
Neural processor unit (NPU)	Intel AI Boost	Operating system installed *	Windows 11 Home
Maximum frequency NPU	1.4 GHz	Bundled software	LG Smart Assistant, LG gram Link, LG Security Guard, LG Lively Theme, LG Glance by Mirametrix®, Dolby Atmos, Intel® Connectivity Performance Suite, McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial)
Sparsity support	✓		
Windows Studio effects support	✓		
AI datatype support on NPU	FP16, FP32, Int8		
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery	
Memory		Battery technology	Lithium-Ion (Li-Ion)
Internal memory *	16 GB	Battery capacity *	90 Wh
Internal memory type	LPDDR5x-SDRAM	Power	
Memory clock speed	7467 MHz	AC adapter power	90 W
Storage		Security	
Total storage capacity *	1 TB	Face recognition	✓
Storage media *	SSD	Windows Hello	✓
Total SSDs capacity	1 TB	Weight & dimensions	
Number of SSDs installed	1	Width	357.7 mm
SSD capacity	1 TB	Depth	251.6 mm
SSD interface	PCI Express 4.0	Height (front)	1.3 cm
NVMe	✓	Height (rear)	1.44 cm
SSD form factor	M.2	Weight *	1.28 kg
		Packaging data	
		Package width	475 mm
		Package depth	290 mm
		Package height	60 mm
		Package weight	2.2 kg



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