

Lenovo Legion R45w-30 Monitor

Brings your games to life.

Jaw-dropping gaming visuals

- Explore all the corners of the battlefield on the impressively large 44.5-inch monitor.
- Cruise into the world of ultra-immersive gaming with the 32:9, ultra-wide, 1500R curved display.
- Experience gaming in extremely sharp clarity on the DQHD, 5120 x 1440 resolution screen.

Supports the pinnacle of gaming

- Play all your favorite games at a buttery-smooth 170Hz refresh rate.
- Super responsive and sharp gameplay on 1ms MPRT¹ response time and ClearMR 7000 certified monitor ensures that you're always winning.
- Enjoy completely stutter-free gameplay, powered by AMD FreeSync™ Premium Pro² and Adaptive Sync technologies.

Tailored to your hybrid lifestyle

- Relish one-cable docking and simultaneous 75 Watts charging with our full-function USB-C³ port.
- Game at your best on a completely stable internet connection with the built-in 2.5Gb/s RJ45 port.
- Get more done than ever before with a host of tools including True Split, KVM, and PIP/XP.



Display

Panel Size
44.5-inch

Screen Dimensions
1101.1 mm x 318.6 mm

Panel Type
3-side Borderless, VA

Active Area
1087.5 mm x 305.9 mm

Curvature
1500R

Backlight
WLED

Aspect Ratio
32:9

Resolution
5120 x 1440

Pixel Pitch
0.212 mm x 0.212 mm

Dot/Pixel Per Inch (DPI/PPI)
119.5

Viewing Angle (H x V @ CR 10:1)
178° / 178°

Response Time
1ms (MPRT)¹, 4ms (Level 4),
7ms (Level 3), 9ms (Level 2),
12ms (Level 1)

Refresh Rate
165Hz (Overclock to 170Hz²)

Brightness (Typical)
450 cd/m²

Brightness (Peak)
500 cd/m²

Contrast Ratio (Typical)
3000:1

Dynamic Contrast Ratio (Typical)
3M:1

Color Gamut (Coverage Ratio)
99% sRGB (CIE 1931)
90% DCI-P3 (CIE 1976)

Color Gamut (Color Area Ratio)
120% sRGB (CIE 1931)
95% DCI-P3 (CIE 1976)

Color Support
16.7 Million

Color Depth
8-bit

HDR Compliance
Yes (DisplayHDR™ 400)

Anti-glare
Yes

Connectivity

Video Signal
1 x USB Type-C³ (DP 1.4
32.4 Gbps for 4 lanes Alt Mode)
2 x HDMI 2.1
1 x DP 1.4

Audio Signal
1 x Audio Out (3.5 mm)

USB Hub
Yes

Ethernet
Yes (10M/100M/1000M/2500M)

USB Upstream
1 x USB 3.2 Gen 1⁴ Type-C³
1 x USB 3.2 Gen 1⁴ Type-B

USB Downstream
3 x USB 3.2 Gen 1⁴ Type-A

Multimedia

Integrated Speakers
Yes (2 x 3W)

Modular Camera Support
Yes (LC50)

Special Features

PIP/PBP
Yes

True Split
Yes

KVM Switch
Yes

Software
Lenovo Artery (Lenovo Display
Control Center)⁵

Sync Technology
AMD FreeSync™ Premium Pro⁶
VESA Adaptive Sync

ClearMR
ClearMR 7000

Gaming Console Support
Yes

Natural Low Blue Light
Yes

Power

Power Consumption (Typ. / Max)
34.0W / 165.0W

Power Consumption Sleep/Off Mode
< 0.5W

Power Consumption Switch-off Mode
< 0.3W

Power Supply
Internal

USB Type-C³ (DP Alt Mode)
Power Delivery⁷
Up to 75W (Smart Power)

Smart Power
Yes

Voltage Required
AC 100 to 240 V (50-60Hz)

Mechanical

Tilt Angle (Front / Back)
-5° / 22°

Swivel Angle (Left / Right)
-30° / 30°

Lift (Max. Range)
135 mm

VESA Mount Capability
Yes (100 x 100 mm & 200 x 100 mm)

Kensington Lock Slot
Yes

Cable Management
Yes

Bezel Color
Black C

Bezel Width (Side)
2.5 mm

Bezel Width (Top / Bottom)
2.5 mm / 22.4 mm

Dimension

Size Packed
(D x H x W, mm / inch)
345.0 x 480.0 x 1230.0 mm
13.58 x 18.90 x 48.43 inches

Size Unpacked w/ Stand
(Highest Position)
(D x H x W, mm / inch)
341.1 x 528.4 x 1089.9 mm
13.43x 20.80 x 42.91 inches

Size Unpacked w/ Stand
(Lowest Position)
(D x H x W, mm / inch)
341.1 x 339.4 x 1089.9 mm
13.43 x 15.49 x 42.91 inches

Size Unpacked w/o Stand
(Head Only)
(D x H x W, mm / inch)
163.6 x 339.1 x 1089.9 mm
6.44 x 13.35 x 42.91 inches

Weight Packed (kg / lb)
20.2 kg / 44.5 lbs.

Weight Unpacked (kg / lb)
12.1 kg / 26.7 lbs.

Weight (Monitor Head Only)
(kg / lb)
8.3 kg / 18.3 lbs.

What's in the Box

Monitor with Stand
Yes

Power Cable (Cable Length)
1 x Power Cable (1.8m)

DP Cable (Cable Length)
1 x DP 1.4 Cable (1.8m)

USB Cable (Cable Length)
1 x USB Type-A to Type-B Cable (1.8m)

Quick Setup Guide
Yes

Warranty Booklet
Yes

Certification

CCC
Yes

Volatile Organic Compound
Certification
Yes

RoHS (2011/65/EU)
Yes

Windows Certification
Windows 10, Windows 11

EU Energy Level Certification
Yes (Level-F)

China Energy Efficiency Standard
Yes (CEL 1)

TÜV Rheinland Eye Comfort
Yes

TÜV Low Blue Light (Hardware Solution)
Yes

Eyesafe Display Certification
Yes (Eyesafe 2.0)



¹ Moving Picture Response Time (MPRT) improves the response time and reduces motion blur in the monitor. Enabling MPRT will disable AMD FreeSync™ technology, and you may notice a negligible flicker. ² Overclocking at 170Hz is based on laboratory test data, and this function may cause irregularities in the display. ³ USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. ⁴ Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications. 5 Gbit/s for USB 3.2 Gen 1; 10 Gbit/s for USB 3.2 Gen 2 & 20 Gbit/s for USB 3.2 Gen2x2. ⁵ This software can only be used with Windows 10 & Windows 11. ⁶ AMD FreeSync™ Premium Pro technology only can work with AMD Radeon™ series graphics card. ⁷ Listed as maximum capacity of power delivery. Actual capacity of power delivery may vary depending upon devices connected or monitor configuration, and may decline with downstream USB ports connected or higher brightness setting.

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