

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/PXP.



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 170Hz)²

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 393.4 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 T)

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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Specifications may vary depending upon region.