ALIENWARE 34 CURVED QD-OLED GAMING MONITOR – AW3423DW

INTRODUCING THE WORLD'S FIRST QUANTUM-DOT OLED GAMING MONITOR
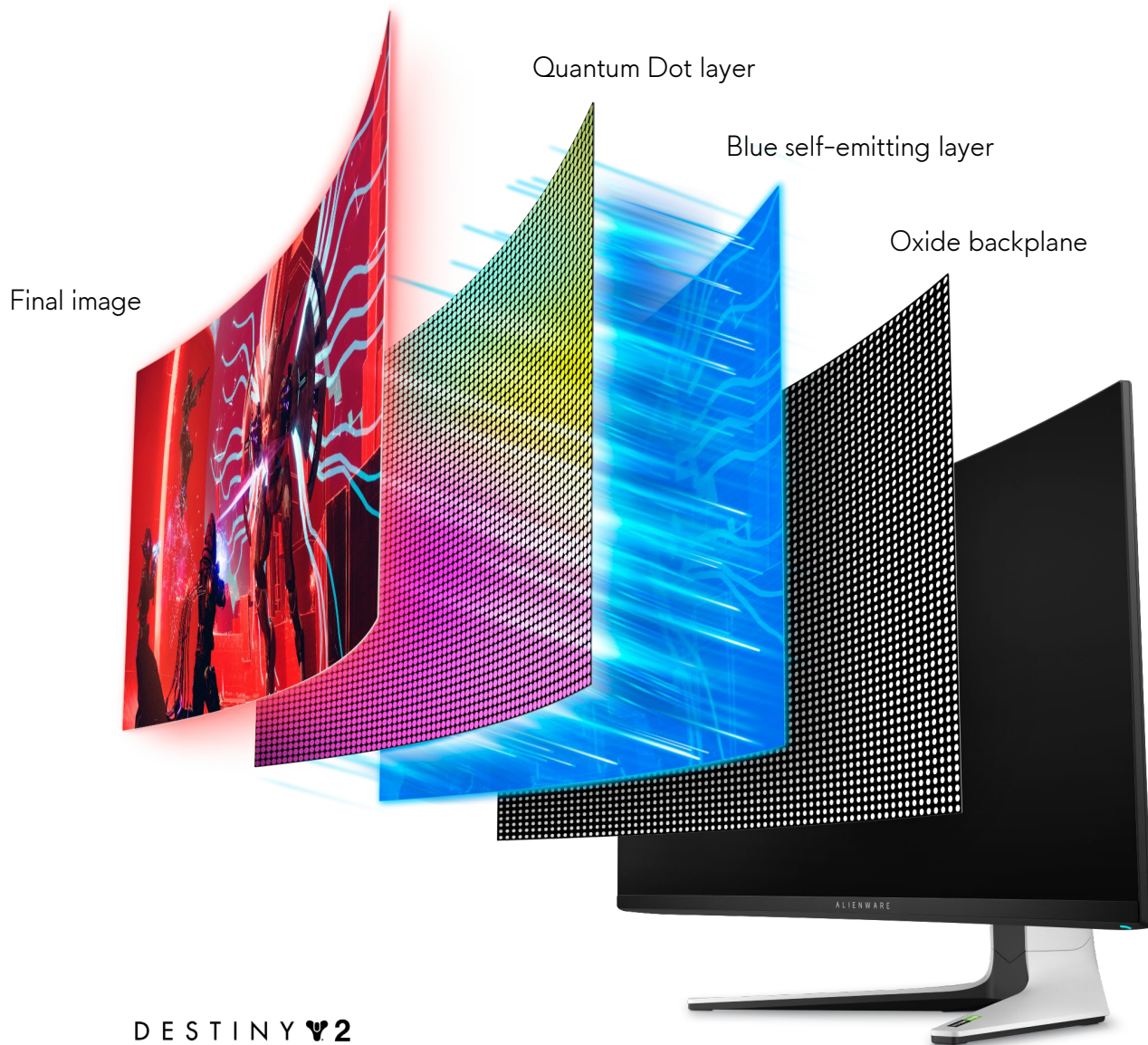
ALIENWARE™

TABLE OF CONTENTS

ALIENWARE™

INFINITELY IMMERSIVE

Quantum Dot layer

Blue self-emitting layer

Oxide backplane

Final image

ALIENWARE

DESTINY 2

Quantum Dot Display Technology enables a slim panel design and delivers a superior color performance with a higher peak luminance and greater color gamut range vs WOLED (White OLED) by taking the impressive qualities of OLED (such as true blacks & infinite contrast ratio) and enhances color performance by directly converting blue light into the primary colors of red and green through a Quantum Dot pixel layer. This results in high color uniformity, wide color coverage and increased brightness.

ALIENWARE™

INFINITELY IMMERSIVE

The monitor features an extensive cinema-grade color coverage of 99.3% DCI-P3 across a wide viewing angle, and colors are accurate out of the box with a factory calibration of Delta E<2.

DESTINY 2

VESA CERTIFIED
DisplayHDR™ TRUE BLACK 400

1000 NITS

Combined with 1000 nits peak brightness, infinite contrast ratio and VESA DisplayHDR TrueBlack 400 certification, you can expect incredibly realistic visuals for unforgettably immersive gaming experiences.

ALIENWARE™

STUTTER-FREE SPEED

Experience ultra-low latency gameplay, support for HDR and cinematic color, plus smooth, tear-free gaming thanks to NVIDIA® G-SYNC® ULTIMATE certification.

With the industry's fastest 0.1ms GtG (Gray to Gray) response time and up to 175Hz (native) high refresh rate, you'll experience smooth gameplay and view fast-moving graphics with incredible clarity for a fast in-game reaction time.

ALIENWARE™

IMPECCABLE DESIGN

The jaw-dropping new design features a sleek QD-OLED curved 1800R panel integrated into the iconic new Legend 2.0 ID.

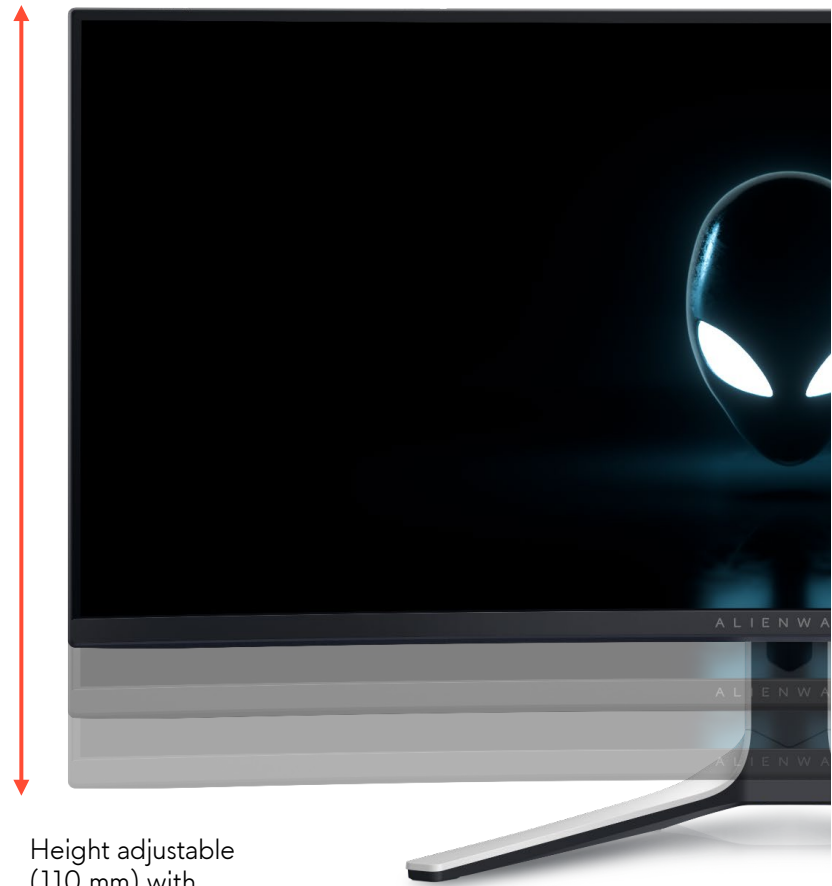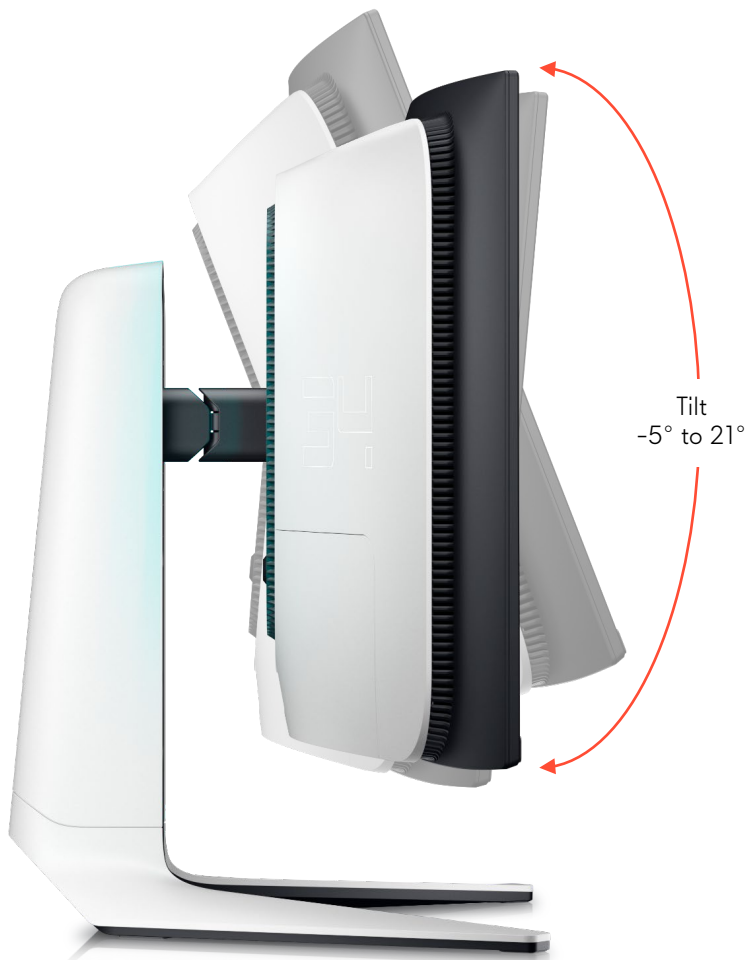Customizable stadium loop RGB AlienFX lighting

improved cable management

ALIENWARE™

IMPECCABLE DESIGN
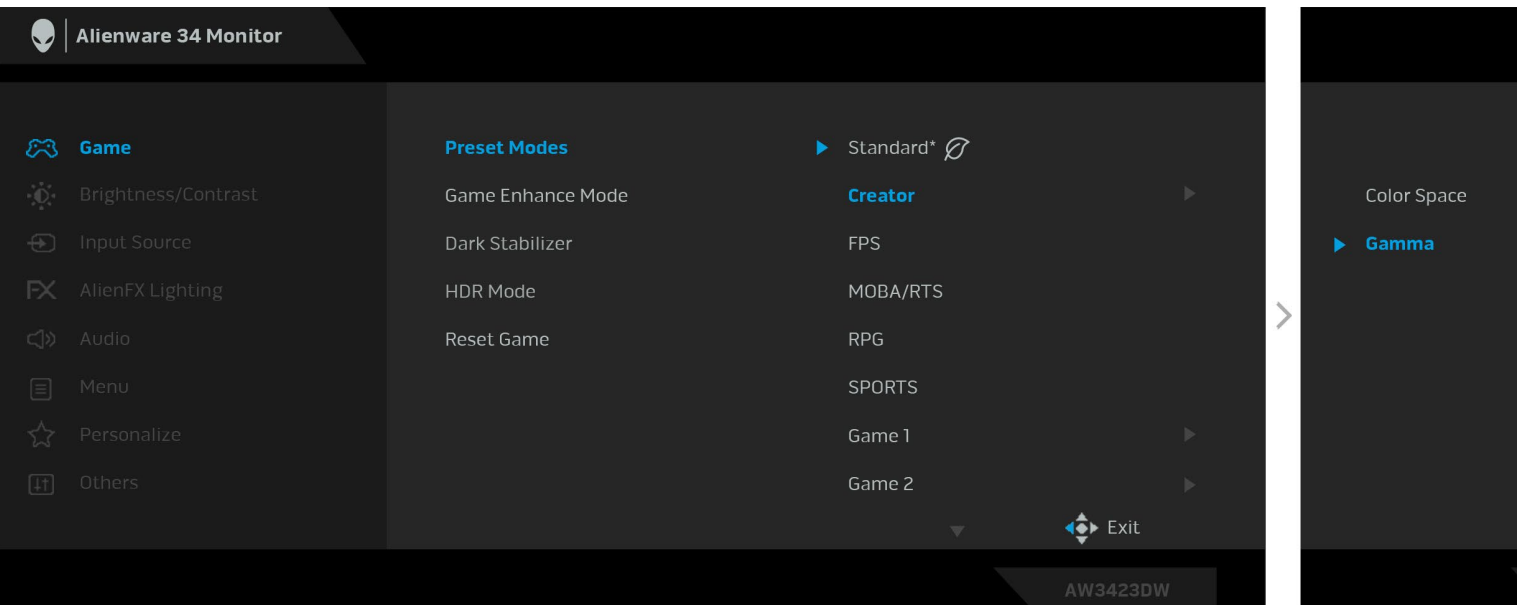

360° ventilation for better heat dissipation

new centralized OSD 5-Axis joystick
to make adjusting your settings easier

ALIENWARE™

ADJUST FOR COMFORT

The height-adjustable stand with height markers and the tilt, swivel, and slant capabilities allow for easy viewing adjustment.

Tilt
-5° to 21°

Height adjustable
(110 mm) with
Height-markers

ALIENWARE™

FOR CRITICAL CREATING

Alienware 34 Monitor

🎮 **Game**	**Preset Modes**	▶ Standard* ⌀	
☀ Brightness/Contrast	Game Enhance Mode	**Creator** ▶	Color Space
⊕ Input Source	Dark Stabilizer	FPS	▶ **Gamma**
FX AlienFX Lighting	HDR Mode	MOBA/RTS	
🔊 Audio	Reset Game	RPG	
▤ Menu		SPORTS	
☆ Personalize		Game 1 ▶	
⊡ Others		Game 2 ▶	
		▼ ◆ Exit	

AW3423DW

For content creators and game developers who require precise color-critical work, the new Creator Mode feature was designed for you.

This OSD menu option allows you the flexibility to choose between the native (DCI-P3) and the sRGB color space, depending on your work needs, and the ability to adjust the gamma settings.

ALIENWARE™

QUALITY ASSURANCE GUARANTEED

With TUV-certified ComfortView Plus, you can game longer, thanks to an always on, built-in low-blue light screen technology that reduces blue light emissions without impacting color accuracy.

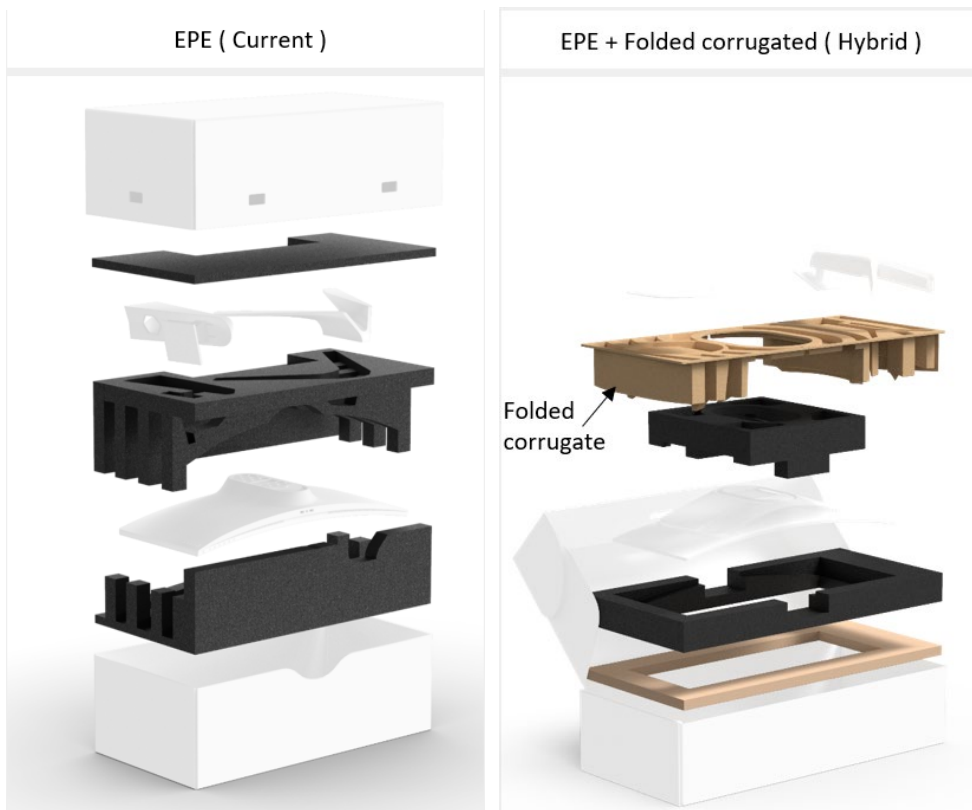**TÜVRheinland ®**
CERTIFIED

Flicker Free
Low Blue Light
(Hardware
Solution)

www.tuv.com
ID 1111246519

The new Alienware 34 Curved QD-OLED Gaming Monitor comes with improved OLED reliability and a 3-year premium warranty, including coverage for OLED burn-in, for additional peace of mind.

A L I E N W A R E ™

SUSTAINABLE PACKAGING

EPE (Current)

EPE + Folded corrugated (Hybrid)

Folded
corrugate

Focus on sustainability

In addition to innovation in the monitor technology and design, we looked at our packaging and how we can make it more sustainable.
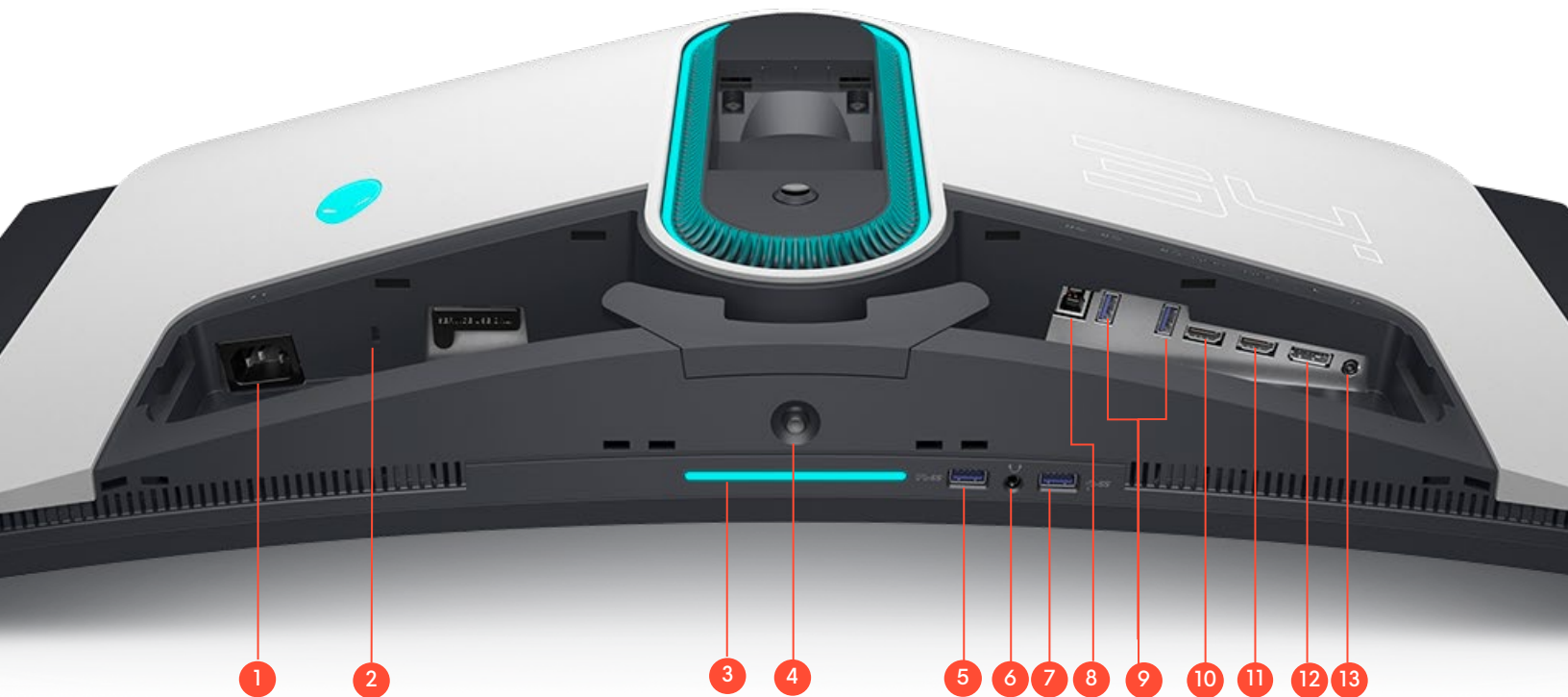
- Reduced EPE foam usage (~50% reduction in EPE vs AW3420DW)
- Removed the plastic clips
- Ocean Bound Plastic handle
- At least 75% recycled cardboard in packaging box
- Reduced complexity & cost saving with 1 global box vs 3 regional boxes

The "lonely whale mark" denotes that the handle is made of Ocean Bound plastic.

ALIENWARE™

CONNECTIVITY OPTIONS

1. Power Connector | 2. Security lock slot | 3. Downlight | 4. OSD Joystick | 5. SuperSpeed USB 5 Gbps (USB 3.2 Gen1) Type-A downstream port with Power Charging | 6. Headphone port | 7. SuperSpeed USB 5 Gbps (USB 3.2 Gen1) Type-A downstream port | 8. SuperSpeed USB 5 Gbps (USB 3.2 Gen1) Type-A upstream | 9. SuperSpeed USB 5 Gbps (USB 3.2 Gen1) Type-A downstream port | 10. HDMI port (HDMI 1) | 11. HDMI port (HDMI 2) | 12. DisplayPort | 13. Line-out port

Cables Included:
1. Power Cable (varies by region) | 2. Display Port to Display port cable | 3. Mini-Display port to Display port Cable | 4. HDMI Cable
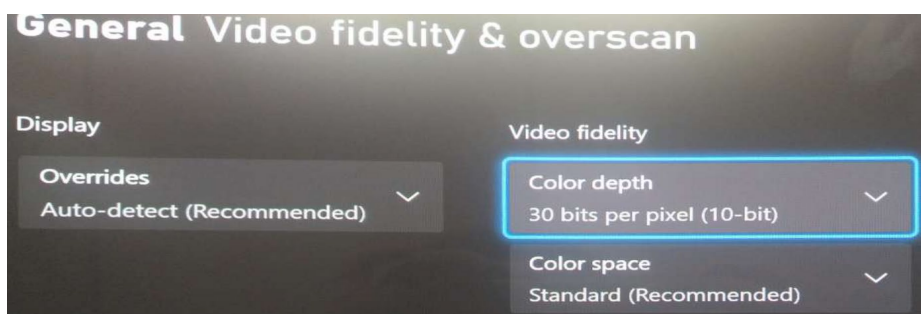5. USB 3.2 Gen1 (5Gbps) upstream cable

ALIENWARE™

WHY HDMI 2.0 VS 2.1?

The AW3423DW features HDMI 2.0 ports. But why not HDMI 2.1? It was a conscious decision based on the below factors.

- DisplayPort port is recommended for max performance of this product (up to 175Hz with WQHD resolution) for PC Gaming.

- AW3423DW is NVIDIA® G-SYNC® ULTIMATE certified & NVIDIA scalers do not offer support for HDMI 2.1.

- HDMI 2.1 is not required for console attachment. HDMI 2.0 port on this monitor is sufficient under the restrictions from the console devices (more details below)

  - Both Xbox and PlayStation only supports 16:9 aspect ratio and up to 120Hz. 21:9 screen ratio is not supported & hence, QHD resolution (2560x1440) is the max resolution that could be projected to this monitor while connected with consoles. (This means end-users will see empty black boxes on each side of the WQHD screen of AW3423DW)

  - Furthermore, PlayStation does not support QHD resolution (only FHD or 4K) . So, Xbox would be the only option, and even with Xbox, you won't be able to enjoy the full feature of the console because Xbox does not support HDR technology on QHD Resolution. (HDR is only supported on 4K) Note all these are restrictions from the consoles, not our monitor.

  - 16:9 QHD resolution at 120Hz with no HDR(=8 bit) from Xbox is what can be projected to our monitor, and the HDMI 2.0 we have is already sufficient to support this bandwidth as shown below in the table.

Shorthand	Resolution	Refresh rate	Color depth (input)	Data Rate Required (Gbit/s)	HDMI 2.0-2.0b 14.4 Gbit/S	HDMI 2.1 42.6 Gbit/S
1440p	2560 x 1440	120Hz	8bit	11.59	O	O
			10bit	14.49	4:2:2	O

- When Xbox Series X is connected with our AW3423DW monitor, user only needs to assure that under Video fidelity the color depth is set to "24 bits per pixel (8-bit)" in the screen below. (8 bit is the default setting on Xbox):

General Video fidelity & overscan

Display

Overrides
Auto-detect (Recommended)

Video fidelity

Color depth
30 bits per pixel (10-bit)

Color space
Standard (Recommended)

ALIENWARE™

DIMENSIONS

Dimensions without stand:

1. Height (compressed): 14.34in. (364.15mm) | 2. Width: 32.10in. (815.25mm) | 3. Depth: 5.40in. (137.11mm) | Weight: 15.26 lb (6.92 kg)

Dimensions with stand:

Height (extended): 20.69in. (525.57mm) | Height (compressed): 16.36in. (415.57mm) | Width: 32.10in. (815.25mm) | Depth: 12.04in. (305.71mm) | Weight: 22.86 lb (10.37 kg)

Stand dimensions:

Height (extended): 16.21in. (411.81mm) | Height (compressed): 15.04in. (382.13mm) | Width: 16.96in. (430.72mm) | Depth: 12.04in. (305.71mm) | Weight: 6.53 lb (2.96 kg)

ALIENWARE™

FEATURES AND TECHNICAL SPECIFICATIONS

ALIENWARE 34 CURVED QD-OLED GAMING MONITOR – AW3423DW

VIEWABLE IMAGE SIZE (diagonal)	86.82 cm (34.18″)
ACTIVE DISPLAY AREA (horizontal x vertical)	800.10 mm x 337.10 mm (31.50" x 13.27″) / 269,713.71 mm^2 (418.01 inches^2)
PANEL TECHNOLOGY	Quantum Dot OLED
MAXIMUM PRE-SET RESOLUTION / REFRESH RATE	3440 x 1440 at 175Hz (Native with DP) / 3440 x 1440 at 100Hz (Native with HDMI)
DISPLAY SCREEN COATING	Anti Reflection
ASPECT RATIO	21:9
PIXEL PITCH / PIXELS PER INCH (PPI)	0.23 mm x 0.23 mm / 110 PPI
CURVED SCREEN	1800R curvature
BRIGHTNESS (typical)	250 cd/m2 (typical) ; 1000 cd/m2 (peak)
GAMUT (typical)	99.3% DCI-P3/ 149% sRGB
COLOR ACCURACY	Delta E<2
COLOR DEPTH	1.07 billion colors
CONTRAST RATIO (typical)	1 Million : 1
HDR SUPPORTABILITY	VESA DisplayHDR™ True Black 400
TYPICAL VIEWING ANGLES (vertical / horizontal)	178° / 178°
RESPONSE TIME (typical)	True 0.1ms gray-to-gray
BACKLIGHT	OLED
COMFORTVIEW PLUS[1] **WITH FLICKER-FREE SCREEN**	Yes
CONNECTIVITY	2 x HDMI (ver 2.0), 1 x DP (ver 1.4), 2 x SuperSpeed USB 5Gbps (USB 3.2 Gen1) downstream port [Front bottom, one with BC1.2 charging capability at 2A (max)], 2 x SuperSpeed USB 5Gbps (USB 3.2 Gen1) downstream port (rear), 1 x SuperSpeed USB 5Gbps (USB 3.2 Gen1) upstream port (rear), 1 x Audio line-out port (rear), 1 x Headphone-out port (bottom), Security lock slot (based on Kensington Security Slot™)
NVIDIA® G-SYNC® ULTIMATE	Yes, Supports NVIDIA® G-SYNC® ULTIMATE with high refresh rate of 175Hz
PRESET OSD MODES	Creator, FPS, MOBA/RTS, RPG, SPORTS and 3 customizable game modes.
STAND ADJUSTABILITY	Height adjustable stand (110 mm) and Height-markers; Tilt (-5° to 21°); Swivel (-20° to 20°); Slant (-5° to 5°)
ADDITIONAL FEATURES	Stand: Built-in cable management / Display: Ambient light sensor, Downlight
ALIENFX™ LIGHTING	4 zones (Back, Loop, Downlight, Power button) with additional animation for loop lighting
PRODUCT COLOR	Lunar Light
VESA MOUNT COMPATIBLE	(100 mm X 100 mm) using VESA adapter
TEMPERATURE RANGE	Operating: 0° to 40°C (32° to 104°F) / Non-operating: –20° to 60° (-4° to 140° F)
HUMIDITY RANGE	Operating: 10% to 90% (non-condensing) / Non-Operating:10% to 90% (non-condensing)
ALTITUDE	Operating: 5,000 m (16,404 ft) max / Non-Operating: 12,192 m (40,000 ft) max
POWER AC INPUT VOLTAGE/FREQUENCY/CURRENT	100 VAC to 240 VAC / 50 Hz or 60 Hz + 3 Hz /3 A (typical)
POWER CONSUMPTION	0.3 W (Off Mode) / 0.5 W (Standby Mode) / 42.3 W (On Mode) / 200 W (Max)
DIMENSIONS (HxWxD) PANEL ONLY MONITOR HEAD WITH STAND (compressed / extended height)	364.15 mm x 815.25 mm x 137.11mm (14.34″ x 32.10" x 5.40") 415.57 mm /525.57 mm x 815.25 mm x 305.71 mm (16.36″ / 20.69″ x 32.10" x 12.04")
WEIGHT PANEL ONLY (for VESA) MONITOR AND CABLES WITH FULL PACKAGING	6.92 kg (15.26 lbs) 15.90 kg (35.05 lbs)
COMPLIANCE STANDARDS	RoHS-compliant, Arsenic-free glass and mercury-free for the panel only, Product Safety, EMC and Environmental Datasheets, Dell Regulatory Compliance Home Page, Dell and the Environment
STANDARD SERVICE PLAN	3-year Advanced Exchange Service[2] & Premium Panel Exchange during the Limited Hardware Warranty period even if only one bright pixel is found and also covers burn-in
WHAT'S INCLUDED	Monitor panel, Stand riser, Stand base, Cable cover, VESA adapter, Screw (M4) X 4 (for locking 3rd party arm or wall mount kit on VESA adapter), Power cable (varies by country), 1 x DisplayPort (DP to DP) cable, 1 x Mini-DisplayPort (mDP to DP) cable, 1 x HDMI cable, 1 x USB 3.2 Gen1 (5 Gbps) upstream cable, Factory calibration report, Quick Start Guide, Safety Information, Alienware Welcome Card

[1]ComfortView Plus feature reduces blue light emission tend optimizes eye comfort without compromising color accuracy. [2]Advanced Exchange Service: Replacement part/unit dispatched, if needed, following completion of phone/online diagnosis. Fee charged for failure to return defective unit. Availability varies. Other conditions apply. [3]For a copy of the Limited Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see Dell.com/warranty.

ALIENWARE™