MEG 342C QD-OLED

BRILLIANCE MADE POSSIBLE

QD OLED

VESA CERTIFIED DisplayHDR™ TRUE BLACK 400

CES INNOVATION AWARDS 2023 HONOREE

Sales Kit | Version V1.6 | MSRP:

5 Minutes Highlight

01 Stunning visual, goes to next level

The MEG 342C QD-OLED is one of the latest entries to **MSI's renowned QD series, combined with the latest OLED panel technology**, these displays exhibit the best picture quality when gaming and provide an ultimate immersive gaming experience with **sharp picture quality and vivid color**.

02 Fastest Ever

The OLED panel breaks the limit of response time that LCDs can't. **Up to 0.03 ms GtG** response time. Combined with the native **175Hz refresh rate** gives you the **fastest and smoothest** gaming experience.

03 Unique Design, new SpectrumBar

The new RGB lighting design lets **users customize the RGB lighting effect** or turn on the **Glow Sync mode** for the content on the screen to sync with the RGB lightbar.

04 Great Connectivity

With rich I/O connectivity, enjoy the full bandwidth HDMI2.1 and also 4 USB 3.2 Gen 1ports for connecting different devices. The USB type-c port does not only support DP alt mode but also charging devices by Power Delivery technology (up to 65W)

05 MSI exclusive Gaming Intelligence

From **gaming assistance to OLED care** function, feel free to control everything with a few clicks. The **MSI-exclusive Gaming Intelligence APP** can easily activate many useful functions and even adjust monitor settings.
Built-in light sensor and ANC microphone give you a better user experience.

Sales Kit | Feb, 2023 |

MEG 342C QD-OLED

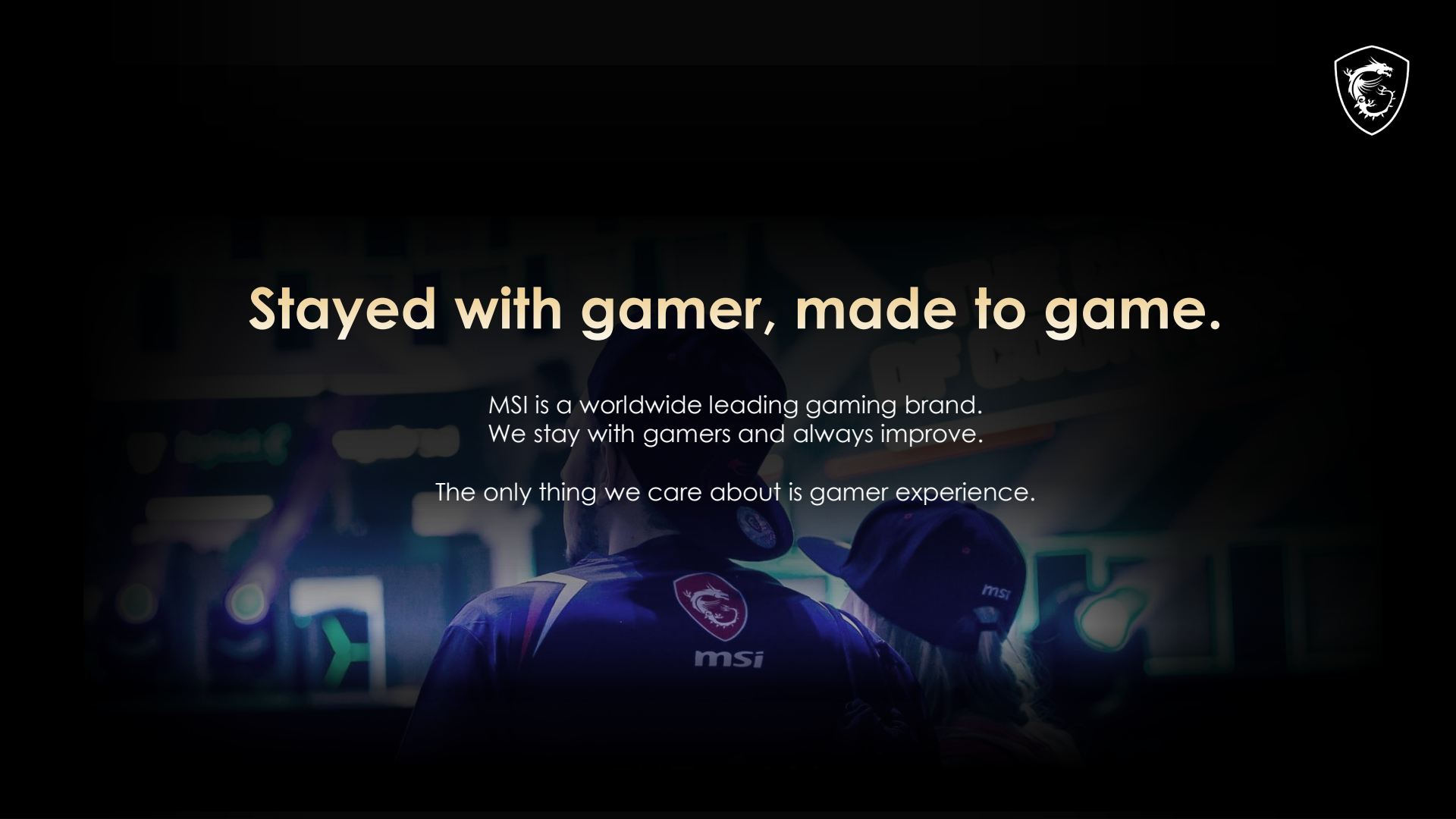
GAMING MONITOR

CES INNOVATION AWARDS 2023 HONOREE

Stayed with gamer, made to game.

MSI is a worldwide leading gaming brand.
We stay with gamers and always improve.

The only thing we care about is gamer experience.

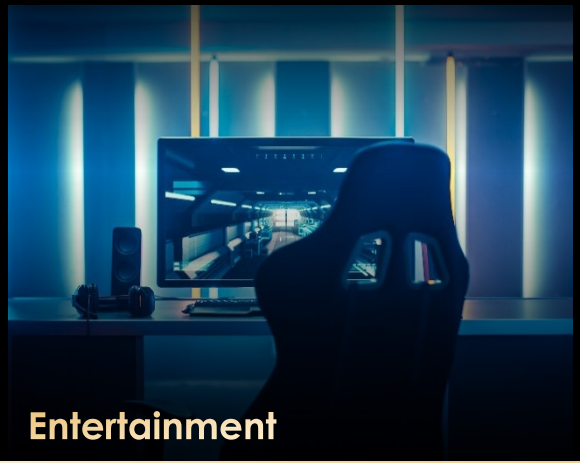


34-inch ultrawide monitors for better user experience

Suitable for gaming, home entertainment and multi-tasking

Gaming

The 1800R ultrawide 21:9 aspect ratio provides a great game scene in RTS/**MMORPG/Racing** games and also ultra-fast 0.03 GtG response time lets gamers fully enjoy the zero motion blur in fast pace games e.g., **shooting game/MOBA** which games required precise control and clear images.



Entertainment

QD-OLED's perfect color performance is suitable for home entertainment like **watching movies/videos**. Enjoy the HDR content with QD-OLED's high contrast and incredible color performance on a 1440p resolution display.

Multi-tasking

Great I/O connectivity and built-in **KVM** switch allow different user scenarios and enjoy the **PBP** function and fast switch different devices. A **golden 21:9 aspect ratio** is the best combination for splitting windows and applications.

OVERVIEW

01 Panel Spec

02 Key Selling Points (SPECTRUMBAR)

03 Gaming Intelligence & OLED CARE

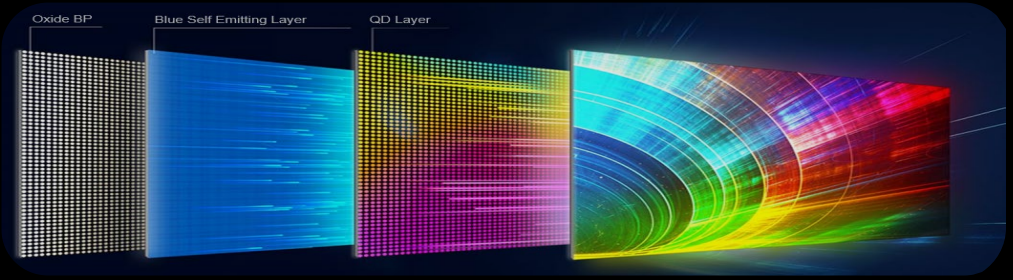
04 Specification

05 Appendix

01 PANEL HIGHLIGHTS

QD OLED

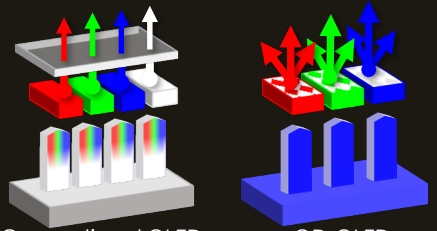
SAMSUNG DISPLAY



Response Time

0.03 ms GtG

MORE VIVID



Conventional OLED QD-OLED

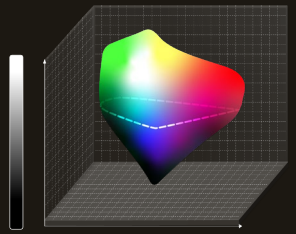
Anti-Reflection

DCI-P3

99.3%

Adobe RGB

97.8%



VESA CERTIFIED DisplayHDR™ TRUE BLACK 400

Brightness (HDR Peak)

1000 nits

LESS BLUE LIGHT PRO

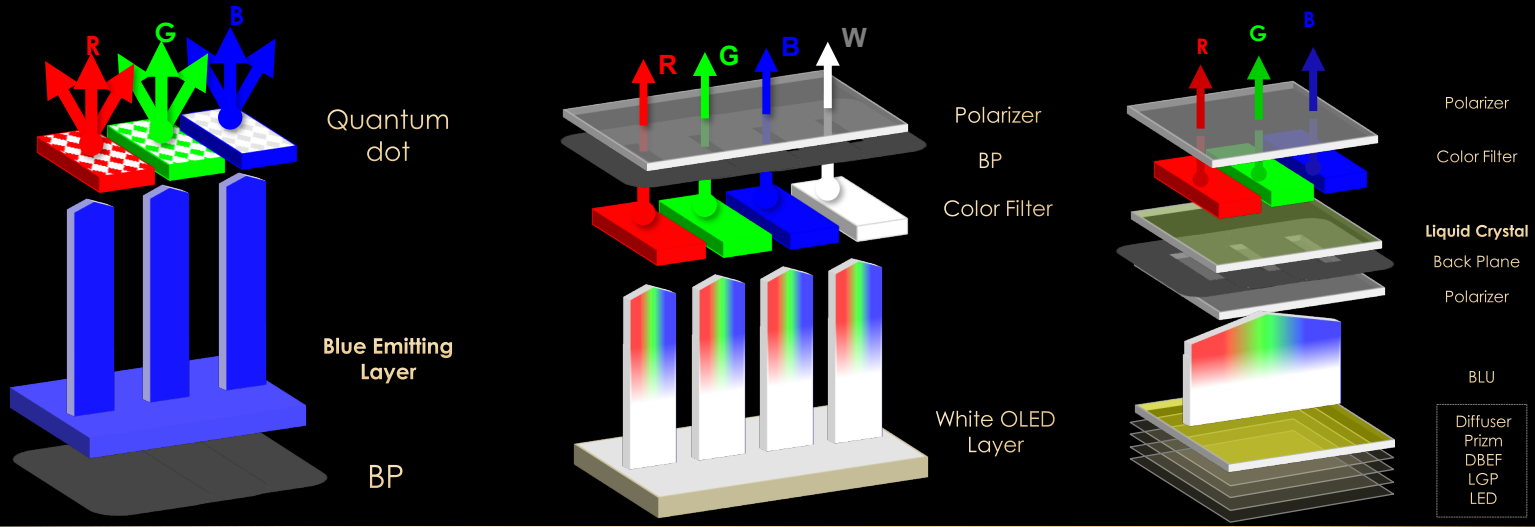
Conventional OLED

QD-OLED

Conventional LCD

QD-OLED

Faster Response & Higher contrast



QD-OLED **WOLED** **LCD**

TRUE BLACK

The incredible contrast

Unlike conventional LCD displays, QD-OLED can achieve pixel-dimming level control and give you pure black scenes without any backlight bleeding that happened commonly in the LCD monitor.

The MEG 342C QD-OLED provides extremely high contrast and is certified VESA DisplayHDR True Black 400.

Thanks to the pixel level dimming, MEG 342C QD-OLED can present better contrast with greater color performance.
Accurately, Vivid, and Life-like.

VESA CERTIFIED DisplayHDR™ TRUE BLACK 400

FASTEST THAN EVER

Ultimate speed and response time

The reason OLED provides faster response time is through its OLED mechanism of emitting light. The traditional LCD's response time is limited by its liquid crystal technology.

Even the latest fast liquid crystal technology is still slower than new OLED technology. Each OLED pixel is emitted individually and provides an extremely clear image with a faster response time.

Up to
0.03 ms GtG

Native
175 Hz

ClearMR 9000 Certified

CLEARMR PROVIDES TRUE QUALITY METRIC FOR MOTION CLARITY

VESA's ClearMR is a new standard for display motion performance. MEG 342C QD-OLED passed strict tests and successfully got the ClearMR 9000 certified.

The CMR range represents a range of blur performance based on the ratio of clear pixels versus blurry pixels as a percentage.

VESA CERTIFIED
ClearMR 9000

Conventional LCD

QD-OLED

2,500 < CMR < 13,000

The higher CMR numbers indicated higher image quality and less blur.

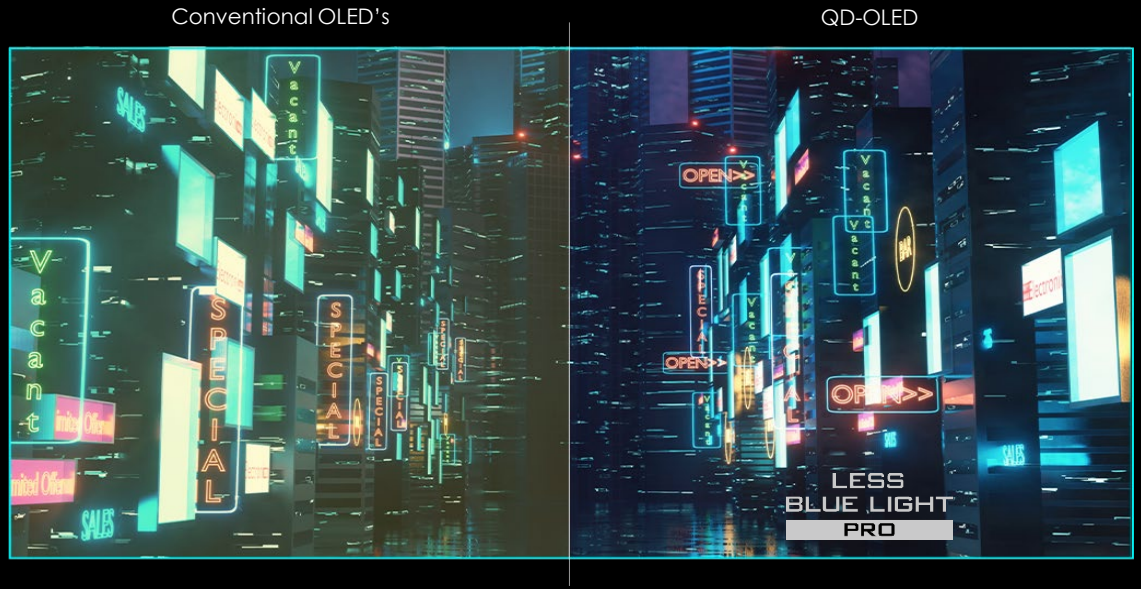
Realistic Color

The richest color of gaming monitor

By quantum dot and OLED technology, MEG 342C QD-OLED provides great color performance. A content production level color gamut gives users a great journey in gaming.

Pre-calibration makes sure the **DELTA E value** meets the market standard and had a great condition when unboxing.

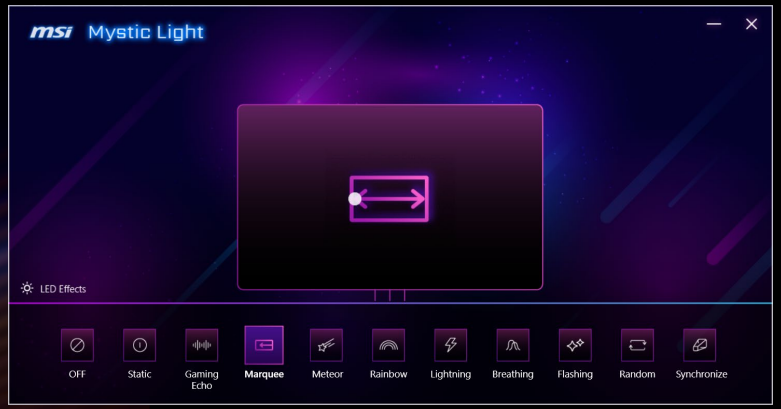
*Color Gamut of DCI-P3 and Adobe RGB follow CIE1976 standard



LESS BLUE LIGHT TECHNOLOGY

Less Blue Light PRO with a hardware filter base technology simultaneously protects your eyes and keeps a vivid color & detail for you.

03 SPECTRUMBAR



SPECTRUMBAR

2 RGB modes for different style and preferences

With default mode 1 - MSI Mystic Light, this monitor provided a soft ambient light that can easily be synced with any other Mystic Light enabled gaming product.

Select any of the colors from the palette using your smartphone or the Mystic Light App to match your system style to your taste.

SPECTRUMBAR

2 RGB modes for different style and preferences

With mode 2 - MSI Glow Sync, the monitor will automatically change the lightbar color based on what content is showing on the screen.

Bringing a more immersive experience

It can provide a fully immersive gaming experience especially the spectrumbar makes the gaming scene extend by lighting effect.

The Glow Sync function does not require any software or specific game, it is a built-in function with hardware base.

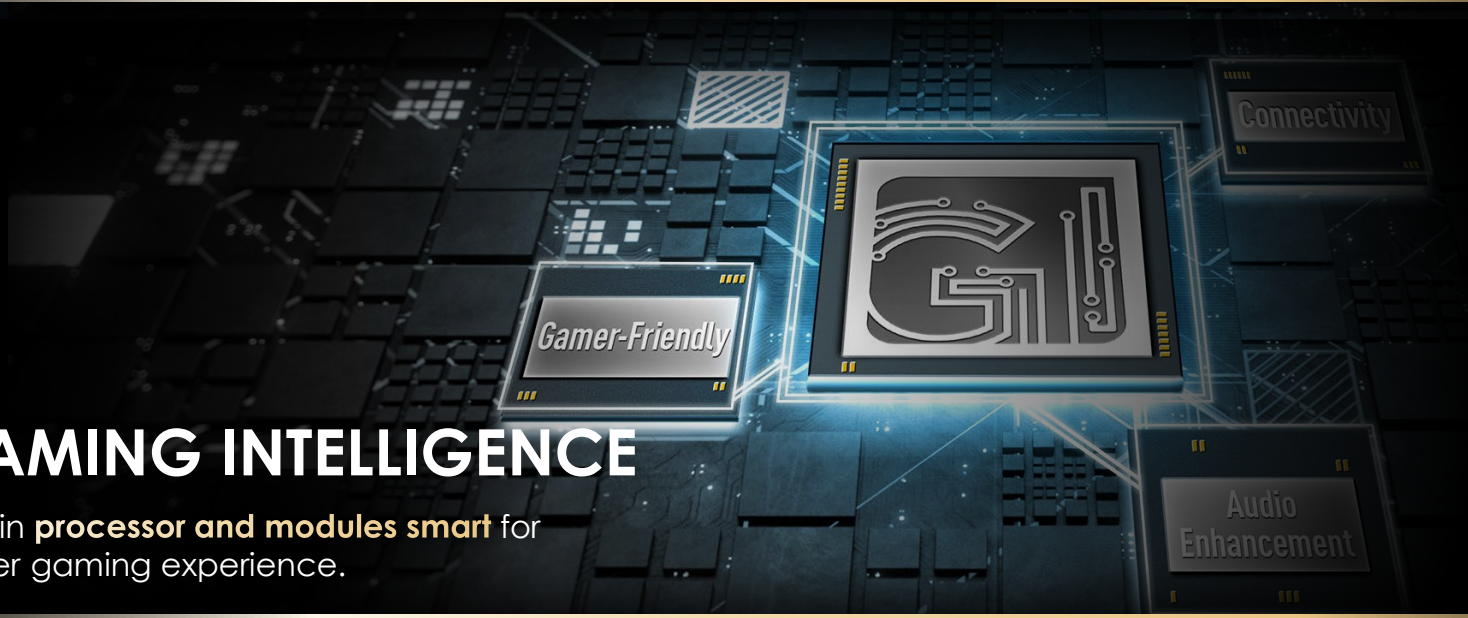
GAMER FRIENDLY /

Gaming Intelligence APP

Smart Crosshair

Smart Brightness

Optix Scope



04 GAMING INTELLIGENCE

Built-in **processor and modules smart** for better gaming experience.

CONNECTIVITY /

KVM

Console Mode

AUDIO ENHANCEMENT /

Sound Tune

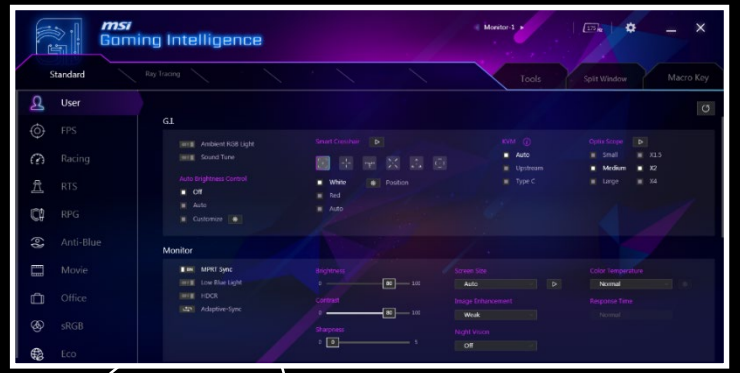
G.I.
Module
Connectivity
Gamer-Friendly
Audio
Enhancement
Gaming Intelligence

GAMER FRIENDLY /

To activated many MSI special monitor features through MSI Gaming OSD app.

Easy to use

Using keyboard & mouse to optimize monitor OSD function in a very easy way

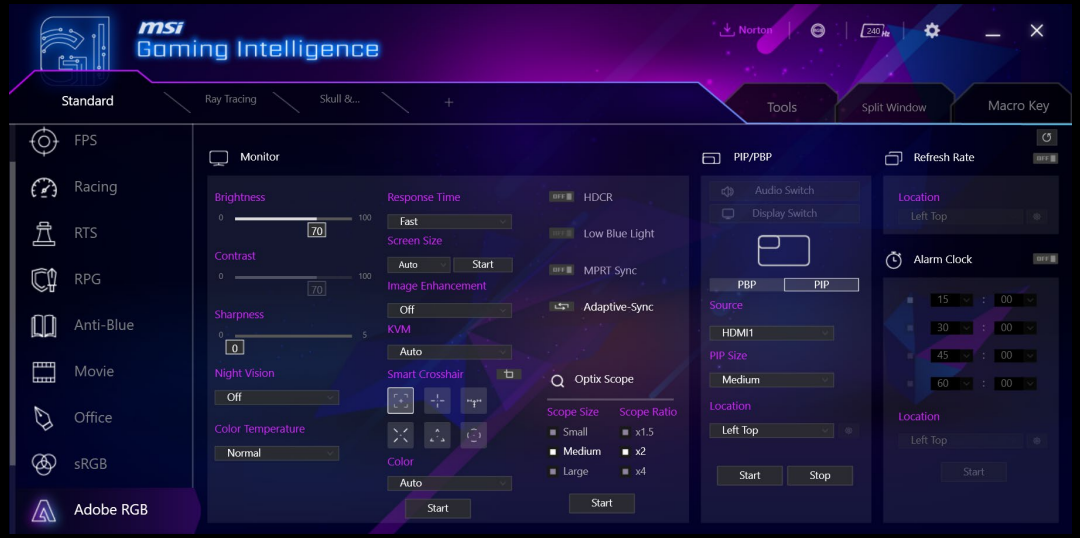


MSI

OSD and gaming are both on your hand's control

Other Brands

Use your hand but out of control with your game

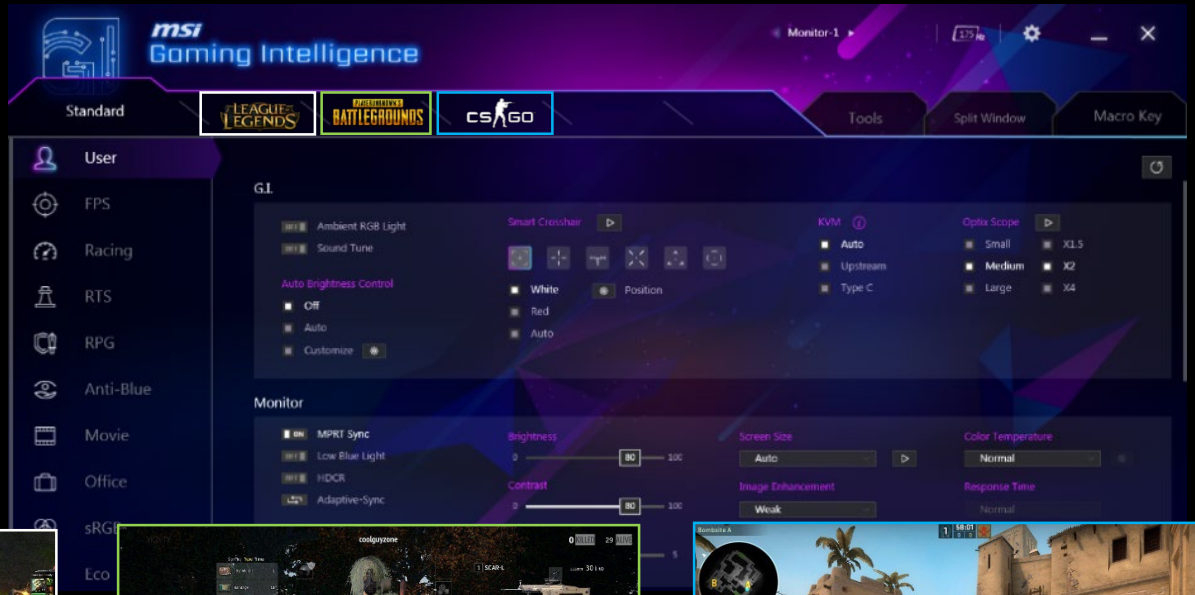


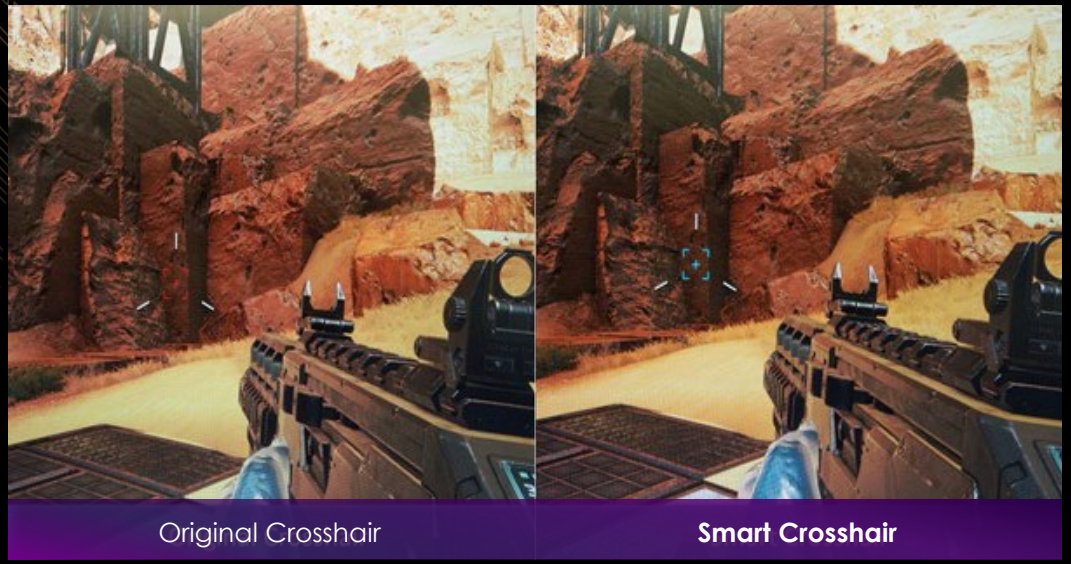
Control Your Gaming Monitor with **MSI Remote Display APP** on Android Smartphone.
Allow you to control the contrast ratio, brightness and black equalizer, etc., right from your Android device.

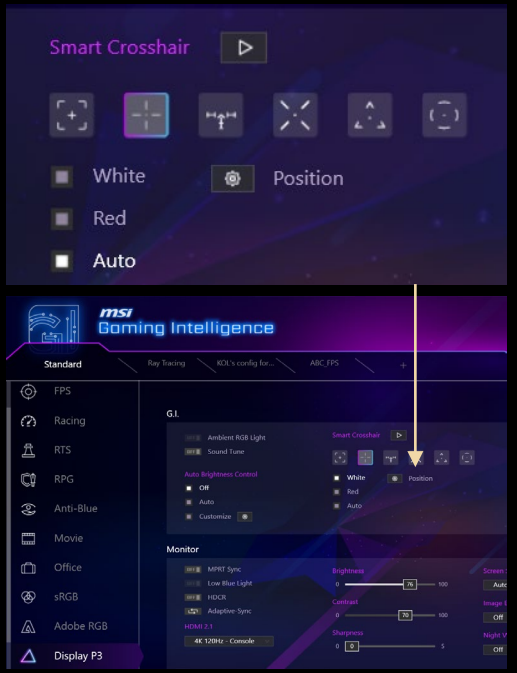
Download

*Android Only

Automatically link to Profile







Smart Crosshair

Through AI calculation, the crosshair automatically changes color, **making it visible at any time**.
If the color of the aim dot overlaps with the background color, it will be problematic for aiming.

Optix Scope

The built-in crosshair **provides multi-stage zooming with shortcut keys** to quickly activate the magnification. It's is a monitor overlay and is **not** dependent on any games or software.
Have the advantage of seeing a bigger hit-box than your opponents.

See Clearly in the Dark

Whether your entire screen is dark, or just a few portions have heavy shadows.
Let the world's first smart black tuner brighten your day by bringing out the fine details in dark areas.

Normal - Hardly see

Night Vision

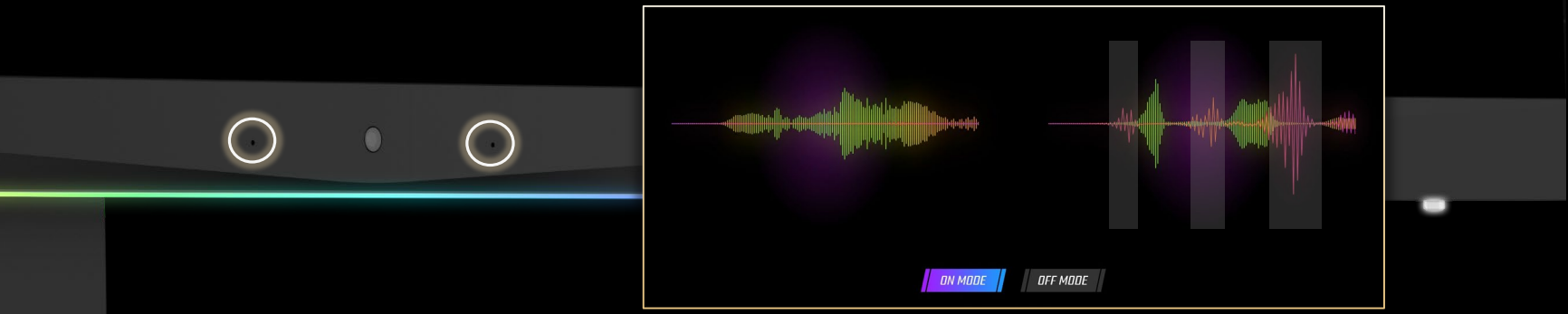
Black Tuner - Over exposed

Smart Brightness

The MSI Gaming monitor has a built-in Light sensor that can automatically detect the ambient light in the room and adjust the screen **brightness** and color **temperature** to the appropriate level.

AUDIO ENHANCEMENT /

By built-in noise cancelling microphone, enhanced the quality of communication.



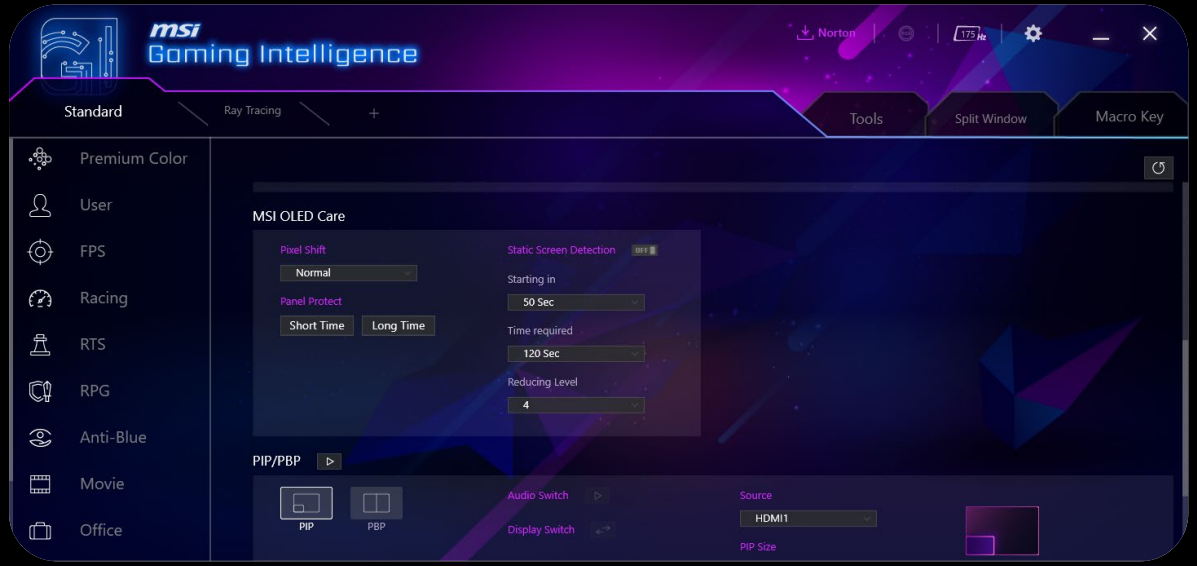
Sound Tune (Hardware ANC)

Eliminating all obstacles to communication, the MSI monitor eliminates background noise through AI calculations and helps communication between teammates with more refined sound quality to achieve the best teamwork for the final victory..

CONNECTIVITY /

MSI monitors featured great connectivity with different devices.

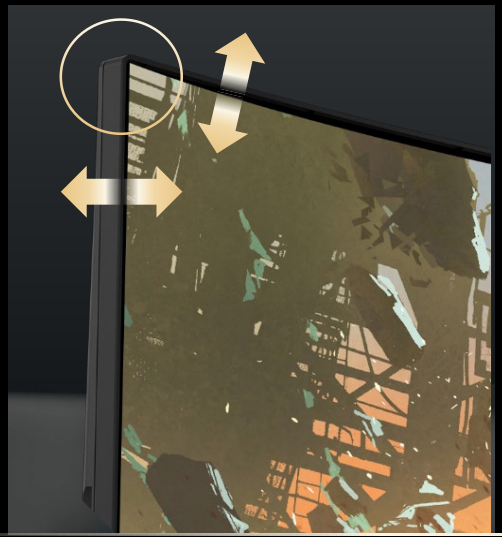
Control multiple devices via one set of keyboard, mouse, and MSI gaming monitor.



OLED CARE

When talking to **OLED**, everyone is concerned about the risk of burn-in. If uses the OLED monitors properly, the risk of burn-in will greatly decrease. Below let us introduce MSI OLED CARE which how to help you maintain your OLED monitors.

Pixel Shift



Pixel Shift moves the pixels of the screen at regular intervals. When the pixel moved, the images would not be shown in the same position. Prevent the pixels from always showing the same images.

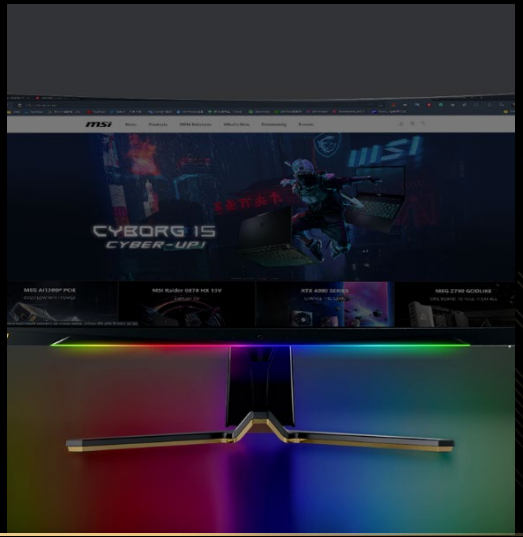
*The border of the panel will remain 8 pixels for shifting which is not the dead zone. This design can avoid sacrificing the content or image size but still do the pixel shifting for preventing pixel aging.

Panel Protect

To maintain panel image quality, panel protect function will pop up an notice on screen to remind user to activate when monitor using over 4 hours (Short time) / 1500 hours (Long time).

Users can decide to activate now or until 4th notification (16 hours later) pop up then pixel protect function will be activated mandatory.

Static Screen Detection

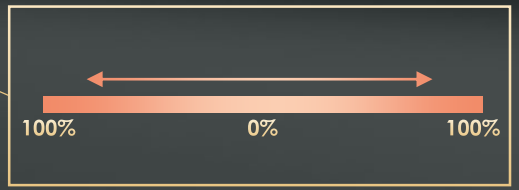


This function will detect moving visuals that are on the screen. If it detects there are always static images on the screen for a period of time, the monitor will reduce the brightness to prevent screen burn-in.

Panel Protect

To have a better user experience when activating the panel protect function. SpectrumBar will show the current progress of the panel protect function.

This can help the user to recognize the approximate progress now.



PANEL SPEC

PANEL SIZE & CURVATURE	34.18", 1800R
ASPECT RATIO	21:9
PANEL TYPE	QD-OLED
PANEL RESOLUTION	3440 x 1440
Pixel Pitch	0.2315(H) x 0.2315(V)
Active Display Area	800.1(H) x 337.1(V)
Color Gamut (DCI-P3/Adobe RGB/sRGB)	99.3% / 97.8% / 139.1%
REFRESH RATE	175Hz
RESPONSE TIME	0.03 ms GtG
HDR (High dynamic range)	True Black 400
Brightness (SDR/HDR)	250 nits / 1000 nits (HDR peak)
Contrast Ratio	1000000:1 (Native)
Surface Treatment	Anti-Reflection
Display Color	1.07B (10 bits)

USB 3.2 Gen 1 Type A x 2
Mic in
Headphone out

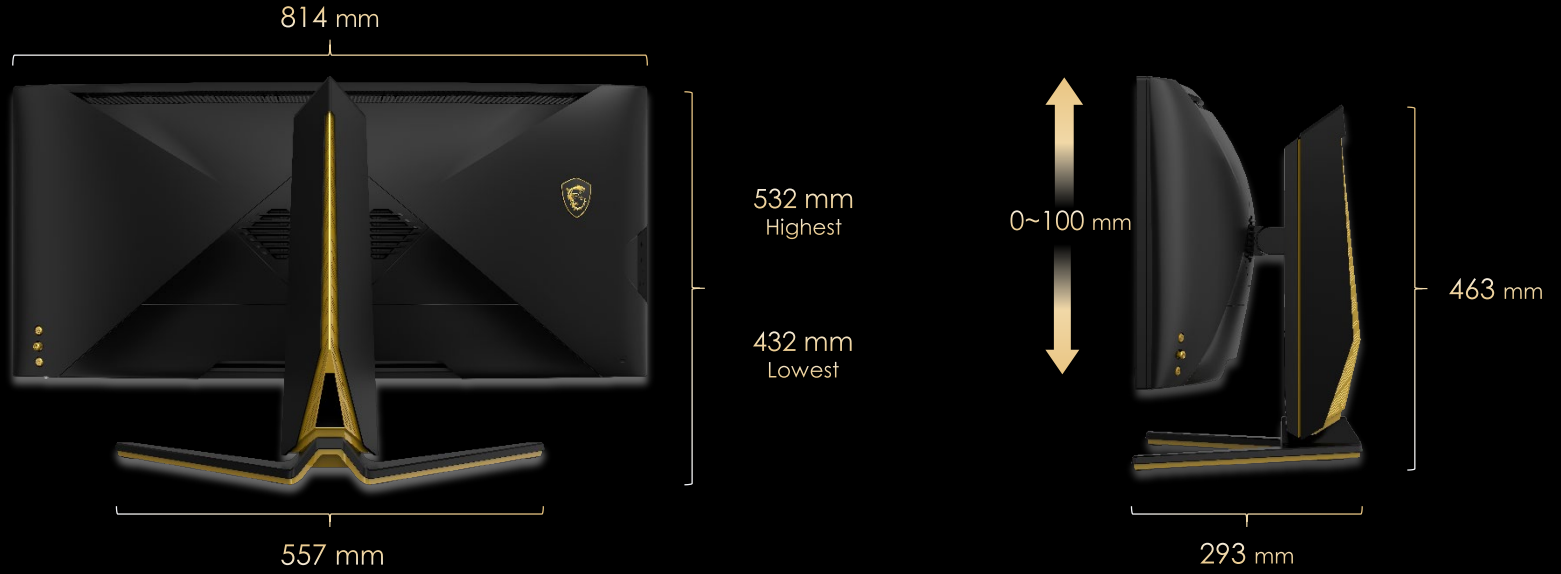
HDMI™ 2.1 x 2
DisplayPort 1.4a
USB-C

USB 3.2 Gen 1 Type B upstream
USB 3.2 Gen1 type A x2
Audio Combo

65W

Universal Type-C Connection

USB Type-C connection, allowing you to power your devices (up to 65W) and effortlessly connect to any devices.


814 mm
532 mm
Highest
432 mm
Lowest
557 mm
0~100 mm
463 mm
293 mm

msi

Tech meets Aesthetic

GOLDEN RATIO

MSI CREATOR AWARDS

ESL
THE OFFICIAL GAMING PARTNER

IEM
Intel® Extreme Masters Certified PC

MGA
MSI GAMING ARENA

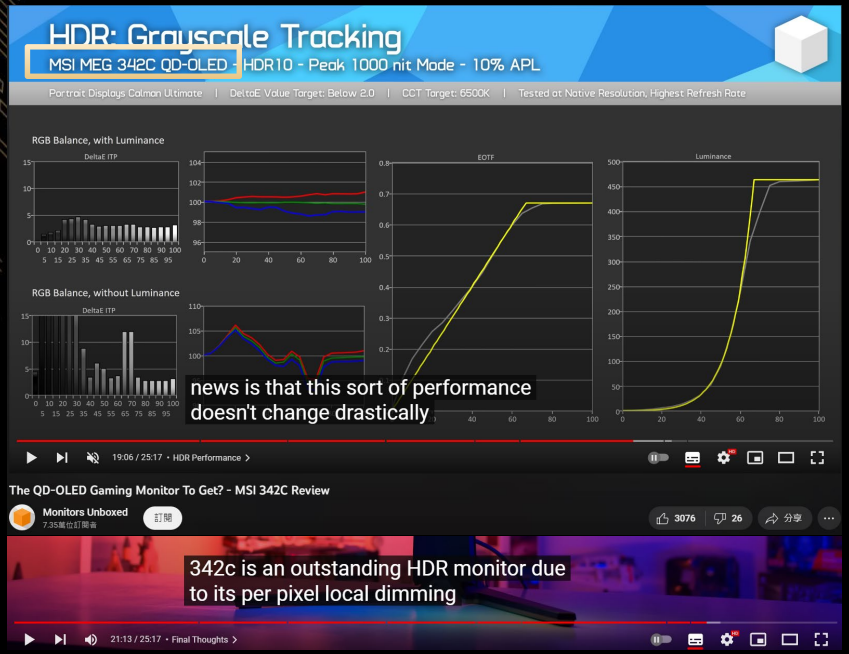
MEG 342C QD-OLED
GAMING MONITOR

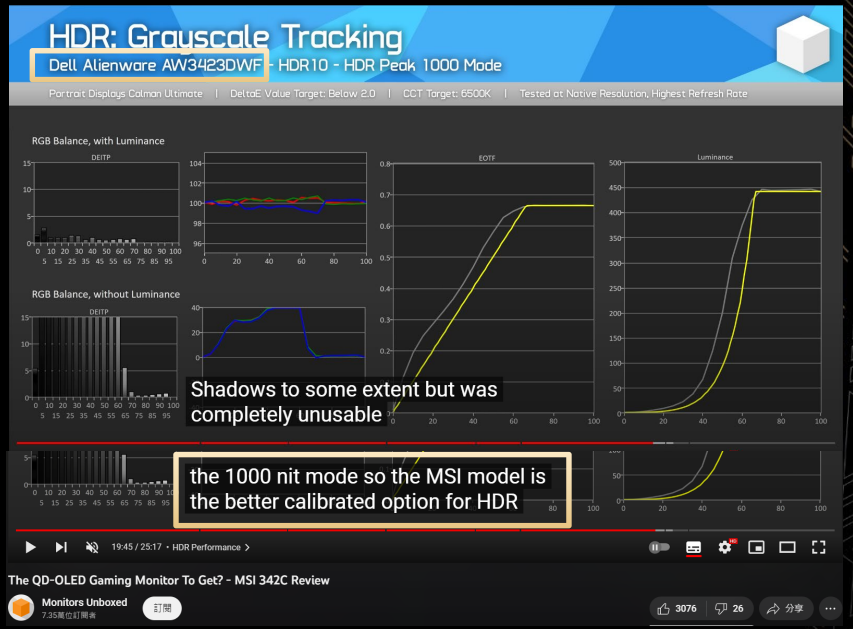
MSI Premium Modes	Regular modes
PREMIUM From gaming modes to professional modes, even provide the sRGB, DCI-P3, and Adobe RGB modes. Up to 14 modes in total.	Only few modes are provided and are not upgradeable.
Gaming Intelligence APP	**N/A**
The convenient software to sync with monitor and easy to use UI design for adjustment.	
MSI OLED Care	**unclear**
MSI OLED CARE Basic pixel/panel refresh mechanism.	Basic pixel/panel refresh mechanism.
KVM	**N/A**
KVM KVM allows us to use one set of keyboards and a mouse to control 2 setups.	
SpectrumBar	**Normal RGB**
Mystic Light + Glow Sync. More functions than regular RGB design	Normal RGB lighting
Great connectivity	**Few ports**
DP 1.4a x1 HDMI (v2.1) x2 USB Type C x1 (PD 65W charging) USB 3.2 x4	DP 1.4 DSC x 1 HDMI (v2.0) x 2 USB 3.2 x 4

Alienware
AW3423DWF

Better HDR performance

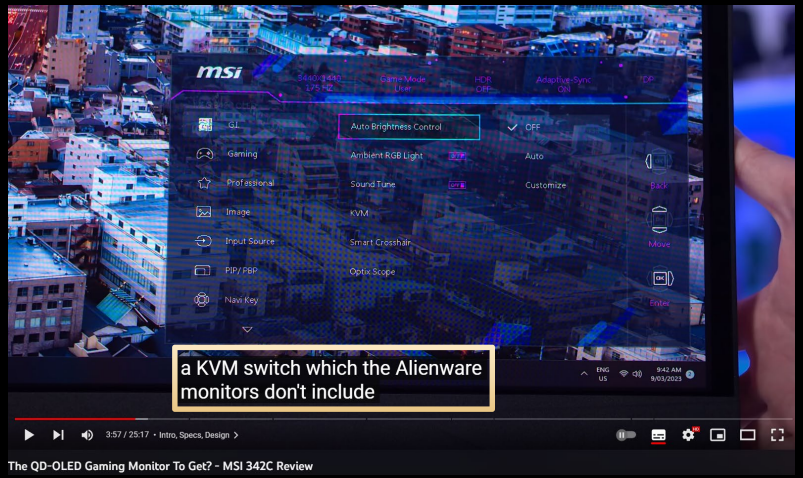
According to the professional **YouTube of monitor review – Hardware Unboxed**.
MSI's QD-OLED has better HDR settings in default even both monitors are using the same panel.





Better Gamer Experience

Alienware's QD-OLED doesn't provide the KVM function to users but MSI did.
KVM is a useful function and allows users to control multiple devices via a keyboard and mouse that connect to a monitor.
Also, MSI's QD-OLED monitor provides USB Type-C port for PD Charging (up to 65W) and display function. It's very useful for users if they have gaming laptop or any devices required a type-c charging



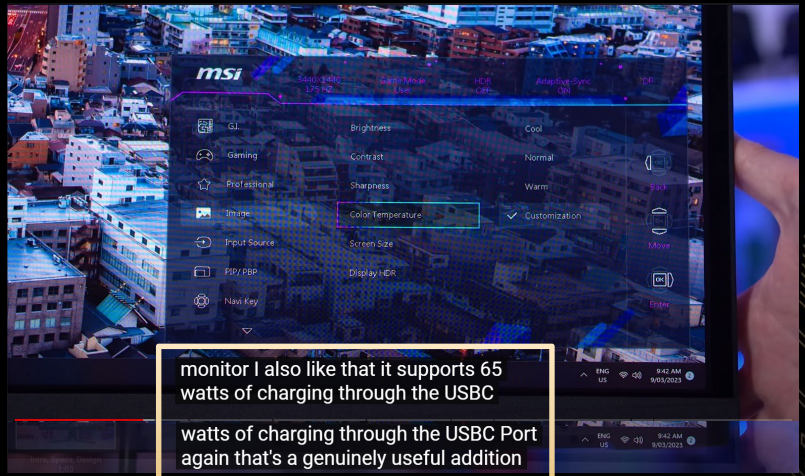


Image source: Hardware Unboxed

Better Connectivity

Hardware Unboxed said MSI had advantages in this QD-OLED competition because MSI's monitor has great connectivity – HDMI2.1, Type-C Charging and USB ports for KVM.

Image source: Hardware Unboxed

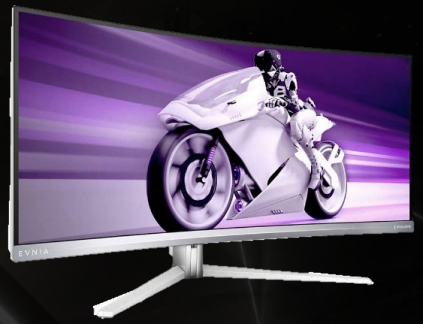
MEG 342C QD-OLED

GAMING MONITOR

MSI Premium Modes	Regular modes
PREMIUM From gaming modes to professional modes, even provide the sRGB, DCI-P3, and Adobe RGB modes. Up to 14 modes in total.	Only few modes are provided and are not upgradeable.
Gaming Intelligence APP	**Gaming Hub**
The convenient software to sync with monitor and easy to use UI design for adjustment.	Built-in platform but not related to in-game benefits. It's more like AIO platform or entertainment center.
MSI OLED Care	**unclear**
MSI OLED CARE Basic pixel/panel refresh mechanism.	Basic pixel/panel refresh mechanism.
KVM	**N/A**
KVM KVM allows us to use one set of keyboards and a mouse to control 2 setups.	
SpectrumBar	**Back light RGB**
Mystic Light + Glow Sync. More functions than regular RGB design	Normal RGB lighting
Great connectivity	**Few ports**
DP 1.4a x1 HDMI (v2.1) x2 USB Type C x1 (PD 65W charging) USB 3.2 x4	Mini DP 1.4 DSC x 1 Micro HDMI (v2.1) x 2 USB-C

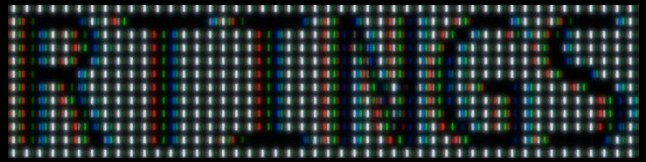
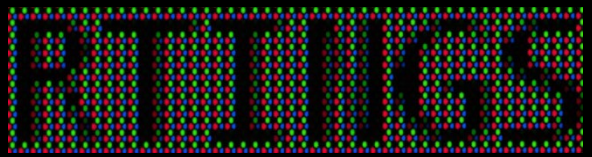
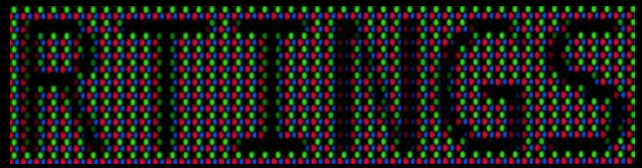
MEG 342C QD-OLED
GAMING MONITOR

MSI Premium Modes		Regular modes
PREMIUM	From gaming modes to professional modes, even provide the sRGB, DCI-P3, and Adobe RGB modes. Up to 14 modes in total.	Only few modes are provided and are not upgradeable.
Gaming Intelligence APP		**N/A**
	The convenient software to sync with monitor and easy to use UI design for adjustment.	Doesn't support any Game related APP.
MSI OLED Care		**unclear**
MSI OLED CARE	Basic pixel/panel refresh mechanism.	Basic pixel/panel refresh mechanism.
KVM		**KVM**
KVM	KVM allows us to use one set of keyboards and a mouse to control 2 setups.	Switch device with physical buttons and OSD menu
SpectrumBar		**Ambiglow**
	Mystic Light + Glow Sync. More functions than regular RGB design	RGB lighting only on the back of monitor.
Great connectivity		**Few ports**
	DP 1.4a x1 HDMI (v2.1) x2 USB Type C x1 (PD 65W charging) USB 3.2 x4	DP 1.4a x 1 HDMI2.0 x 2 USB-C (PD3.0) USB 3.2 x4



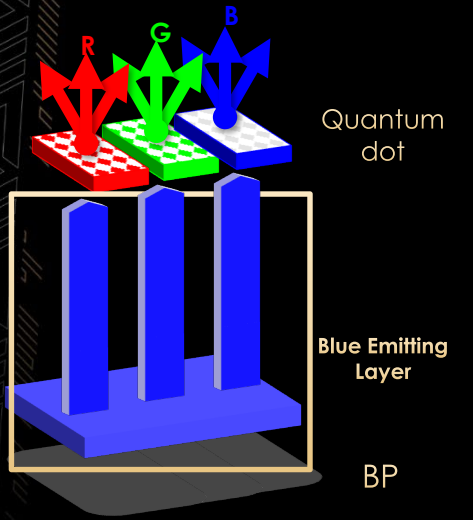
EVNIA (Philip)
34M2C8600

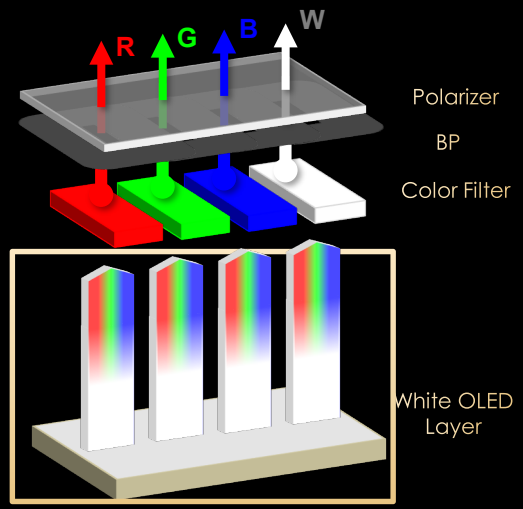
Even clear type is turned on, Text clarity score of OLED is lower than QD-OLED.

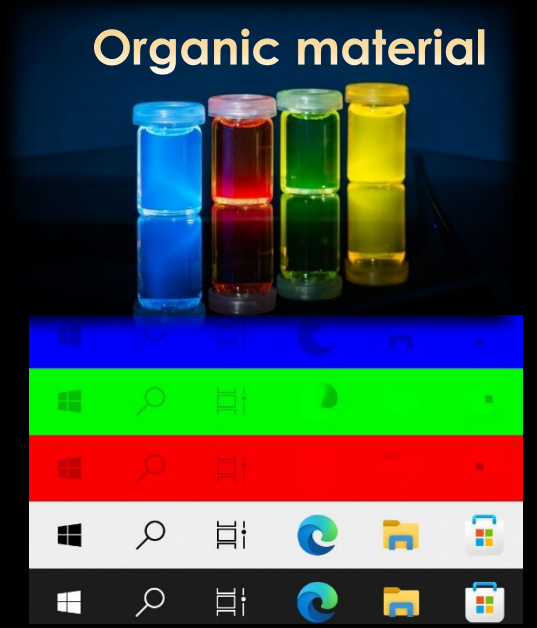
Clear Type	Off	On	Text Clarity score
Conventional OLED (27“ Q)			6.5 R/W/B/G
QD-OLED (34“Q+)			7.0 R/G/B

* ClearType setting is the function in Windows Settings, please kindly check your windows setting.
**Source : Samsung Odyssey OLED G8/G85SB S34BG85 vs LG 27GR95QE-B Side-by-Side Monitor Comparison - RTINGS.com

The concern of OLED technology – Burn-in

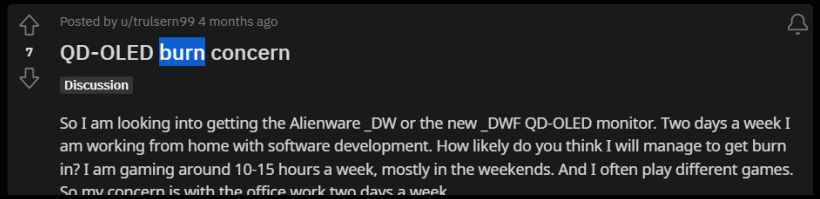


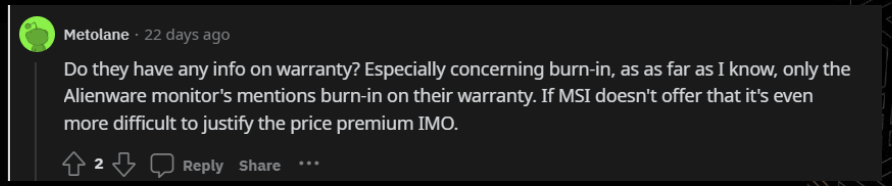


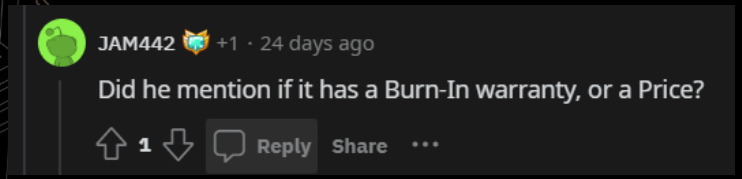


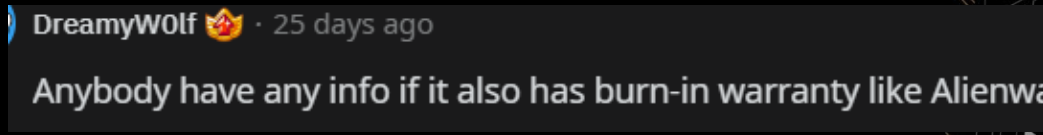
QD-OLED **WOLED**

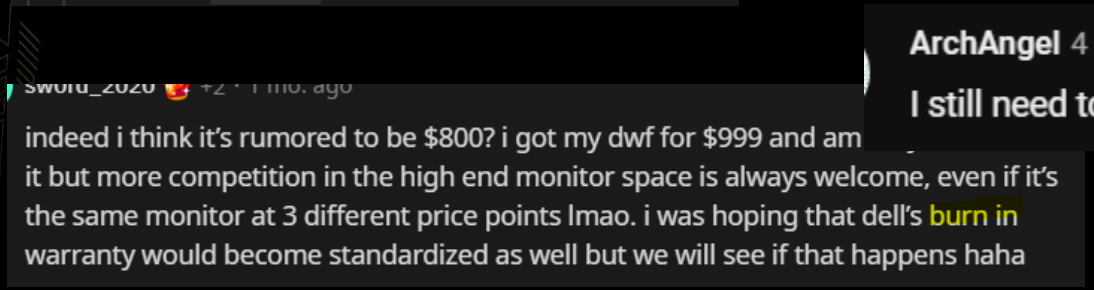
Users will worry about…











OLED burn-in risk and comparison

When comparing between sets of the same brand (Sony), burn in of WOLED is faster and stronger than QD-OLED.
Even though QD-OLED has the highest luminance among ‘22 Sony OLED

Result of RTINGS does not mean that QD OLED is more disadvantageous to burn in than WOLED..

【 Result of RTINGS Test @2400Hr 】

‘21~22 Sony Products Burn-in level

	A80J('21)	A90J('21)	A80K('22)	A90K('22)	A95K('22)
Initial Luminance (@APL10%)	400	419	386	325	399
△Luminance (@Banner)	△8.1	△6.6	△3.9	△3.0	△2.6