**ASUS**

# ASUS TUF Gaming VG28UQL1A computer monitor 71.1 cm (28") 3840 x 2160 pixels 4K Ultra HD LCD Black

**Brand :** ASUS　　　　**Product family:** TUF Gaming　　　　**Product code:** 90LM0780-B01170

**Product name :** VG28UQL1A

- 28-inch UHD (3840 x 2160) Fast IPS gaming monitor with 144 Hz refresh rate and 1 ms (GTG) response time, designed for professional gamers
- HDMI® 2.1 supports native 4K 120 Hz gaming without chroma subsampling (4:4:4) on PlayStation® 5 and Xbox Series X
- ASUS Extreme Low Motion Blur Sync (ELMB Sync) technology enables ELMB and variable-refresh-rate technologies to work simultaneously to eliminate ghosting and tearing for sharp gaming visuals with high frame rates
- NVIDIA® G-SYNC® Compatible, AMD FreeSync™ Premium, and exclusive Variable Overdrive technology ensure seamless, tear-free gaming
- High dynamic range (HDR) technology with DisplayHDR™ 400 compliance and 90% DCI-P3 professional color gamut provide amazing color performance
TUF Gaming VG28UQL1A HDMI 2.1 Gaming Monitor — 28-inch 4K UHD (3840 x 2160), Fast IPS, 144 Hz, 1 ms GTG, NVIDIA G-Sync compatible, AMD FreeSync™ Premium, DSC, ELMB Sync, Variable Overdrive, DisplayHDR™ 400, DCI-P3 90%

## Display

| | |
|---|---|
| Display diagonal * | 71.1 cm (28") |
| Display resolution * | 3840 x 2160 pixels |
| HD type * | 4K Ultra HD |
| Native aspect ratio * | 16:9 |
| Display technology * | LCD |
| Panel type * | IPS |
| Backlight type | LED |
| Touchscreen * | ✘ |
| Display brightness (peak) | 450 cd/m² |
| Display brightness (typical) | 300 cd/m² |
| Response time | 1 ms |
| Screen shape * | Flat |
| Contrast ratio (typical) * | 1000:1 |
| Contrast ratio (dynamic) | 1000000:1 |
| Dynamic contrast ratio marketing name | SmartContrast |
| Maximum refresh rate * | 144 Hz |
| Viewing angle, horizontal | 178° |
| Viewing angle, vertical | 178° |
| Display number of colours * | 1.073 billion colours |
| Pixel pitch | 0.16 x 0.16 mm |
| Viewable size, horizontal | 62.1 cm |
| Viewable size, vertical | 34.1 cm |
| Digital horizontal frequency | 30 - 340 kHz |
| Digital vertical frequency | 48 - 144 Hz |
| High Dynamic Range (HDR) supported | ✔ |
| High Dynamic Range (HDR) technology | High Dynamic Range 10 (HDR10) |
| RGB colour space | DCI-P3 |

## Ports & interfaces

| | |
|---|---|
| DisplayPort version | 1.4 |
| Headphone out * | ✔ |
| Headphone outputs | 1 |
| Headphone connectivity | 3.5 mm |
| DC-in jack | ✔ |

## Ergonomics

| | |
|---|---|
| VESA mounting * | ✔ |
| Panel mounting interface | 100 x 100 mm |
| Cable lock slot * | ✔ |
| Cable lock slot type | Kensington |
| Height adjustment * | ✔ |
| Height adjustment | 12 cm |
| Pivot | ✔ |
| Pivot angle | 90 - -90° |
| Swivelling | ✔ |
| Swivel angle range | 15 - -15° |
| Tilt adjustment | ✔ |
| Tilt angle range | 20 - -5° |

## Power

| | |
|---|---|
| Energy efficiency class (SDR) * | G |
| Energy efficiency class (HDR) * | G |
| Energy consumption (SDR) per 1000 hours * | 33 kWh |
| Energy consumption (HDR) per 1000 hours * | 60 kWh |
| Power consumption (typical) * | 33 W |
| Power consumption (standby) * | 0.3 W |
| Power consumption (off) | 0.3 W |
| Power consumption (PowerSave) | 0.45 W |

## Display

| | |
|---|---|
| Colour gamut | 90% |

## Performance

| | |
|---|---|
| NVIDIA G-SYNC * | ✔ |
| NVIDIA G-SYNC type | G-SYNC Compatible |
| AMD FreeSync * | ✔ |
| AMD FreeSync type | FreeSync Premium |
| Flicker-free technology | ✔ |
| Low Blue Light technology | ✔ |
| Game mode | ✔ |

## Multimedia

| | |
|---|---|
| Built-in speaker(s) * | ✔ |
| Built-in camera * | ✘ |
| Number of speakers | 2 |
| RMS rated power | 4 W |

## Design

| | |
|---|---|
| Market positioning * | Gaming |
| Product colour * | Black |
| Detachable stand | ✔ |
| Feet colour | Black |

## Ports & interfaces

| | |
|---|---|
| Built-in USB hub * | ✔ |
| USB hub version | 3.2 Gen 1 (3.1 Gen 1) |
| Number of upstream ports | 1 |
| USB Type-A downstream ports quantity | 2 |
| HDMI * | ✔ |
| HDMI ports quantity | 4 |
| HDMI version | 2.0/2.1 |
| DisplayPorts quantity | 1 |

## Power

| | |
|---|---|
| AC input voltage | 100 - 240 V |
| AC input frequency | 50 - 60 Hz |
| Energy efficiency scale | A to G |

## Packaging content

| | |
|---|---|
| Stand included | ✔ |
| Cables included | AC, DisplayPort, HDMI, USB Type-A |
| Quick start guide | ✔ |

## Weight & dimensions

| | |
|---|---|
| Width (with stand) | 639.5 mm |
| Depth (with stand) | 213.8 mm |
| Height (with stand) | 539.8 mm |
| Weight (with stand) | 6.89 kg |
| Width (without stand) | 639.5 mm |
| Depth (without stand) | 65.7 mm |
| Height (without stand) | 369.4 mm |
| Weight (without stand) | 4.67 kg |

## Packaging data

| | |
|---|---|
| Package width | 716 mm |
| Package depth | 224 mm |
| Package height | 446 mm |
| Package weight | 10.4 kg |
| Package type | Box |

## Sustainability

| | |
|---|---|
| European Product Registry for Energy Labelling (EPREL) code | 699960 |

## Logistics data

| | |
|---|---|
| Harmonized System (HS) code | 85285210 |

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