KNOW WHAT YOU’RE BUYING

Products and services with claims verified by UL through our scientific rigorous processes are instantly distinct from those with self-declared benefits.

Once marketing claims have been verified, the UL Verified Mark can be used directly on a product, label, package, or advertising and promotion.

The UL Verified Mark makes on-the-spot awareness and in-depth information readily available.
UltraHD 4K Monitor with IPS Technology

The following claims have been evaluated for this product

UL VERIFICATION PROCESS

UL employs test, product analysis, demonstration and process analysis verification techniques to verify manufacturer claims. This product has successfully satisfied the design of wide color space, ultraHD.

This product has successfully satisfied the ultraHD 4K (3840X2160 resolution of pixel counts), larger color space of sRGB more than 99% and accuracy of color gamma and gray scale. Wide color gamut gives larger color space to show more area of color than other display. Resolution of 4K can show more details than HD or FHD monitor.

Furthermore, the sample(s) tested is (are) compliant with the following applied standards/regulations: IDMS 5.16, 5.18, 6.1, 6.8, 6.11, 6.15, 8.1, 9.6, 13.1.1, ISO 9241-307, Macbeth Checker.
The following claims have been evaluated for this product

LG webOS TV
Smart Home Ready

UL VERIFICATION PROCESS

The Internet of Things (IoT) is the network of physical objects—devices embedded with electronics, software, sensors, and network connectivity that enables these objects to collect and exchange data. The IoT allows objects to be sensed and controlled remotely across existing network infrastructure, creating opportunities for more direct integration of the physical world into computer-based systems when IoT is augmented with sensors and actuators, the technology becomes smart homes. Each thing is uniquely identifiable through its embedded computing system but is able to interoperate within the existing Internet infrastructure.

We test an LG webOS TV with built in software ‘webOS 3.0’ to verify that the functionality of the built-in LG webOS TV Application “IoTV” will work with a wide variety of IoT (Internet of Things) Connected LG Devices.

We are verifying the IOT are well controlled by TV remote control which shows those status on TV screen.

- Washing machine; remaining time, stop, operation status
- Refrigerator; refresh, fridge temperature, ice plus, door status
- Cleaner; operation mode, battery status
- Air Conditioner; temperature control, operation mode
- Smart Plug; on/off status, energy consumption value
- Lighting; dimming, on/off status
The following claims have been evaluated for this product

Ergonomically Designed Keyboard

UL VERIFICATION PROCESS

UL employs test, product analysis, inspection, demonstration and process analysis verification techniques to verify manufacturer claims. This product has successfully satisfied the requirements for operability of keyboards, the design of compact keyboards, sections and zones, the technical design of keyboards, electric requirements and maintainability.

Wide Color Gamut Curved Monitor with 1800R Curvature

UL VERIFICATION PROCESS

UL employs test, product analysis, demonstration and process analysis verification techniques to verify manufacturer claims. This product has successfully satisfied the design of curved monitor, wide color space, luminance uniformity color uniformity.

Curved monitor can give immersive effects to the consumer; we are measuring how curve of the monitor is able to give more effects. Wide-color gamut gives larger color space to show more area of color than other displays. Whole display is uniformed even it has more color space and curved.

Furthermore, the sample(s) tested is (are) compliant with the following applied standards/regulations: ISO9241-305 (5.4.2, 6,6.2), ISO 9241-307 (Table 52, Table 57 Lateral Criteria), FPDM2 (302-4), sRGB, NTSC (1953)
PHILIPS FIELD PROGRAMMABLE LED DRIVER

The following claims have been evaluated for this product

Programmable Driver for TLED Lamps Using Philips SimpleSet Mobile App

UL VERIFICATION PROCESS

- Software integrity review to test the functionality of the application with the LED Driver
- Mobile OS versions verified were Android 4.2.2 through 4.4.4
- Mobile devices verified were LG G2 LS980, LG G3, LG Nexus 5, Samsung S4 Mini, Samsung S5, Samsung Note 4
- SimpleSet Mobile App Version Number: 2.0
The following claims have been evaluated for this product:

**Low Optical Flicker Less Than 1%**

**UL VERIFICATION PROCESS**

The UL verification method is designed to provide informed levels of flicker measured as flicker index and optical flicker percentage of non-dimmable luminaires or lamps, when powered at their nominal supply voltage and frequency.
The following claims have been evaluated for this product:

Low Optical Flicker Less Than 3%

UL VERIFICATION PROCESS

The UL verification method is designed to provide informed levels of dimming performance measuring flicker index and optical flicker percentage of luminaires or lamps, when powered at their nominal supply voltage and frequency; it covers phase cut and non-phase cut dimming methods for all light sources. The measurements involve different dimming levels; full light output, dimming to 20, 10, min light output.
The following claims have been evaluated for this product

**Anti-Dust Protection: Level 1**

**UL VERIFICATION PROCESS**

Excessive amount of dust ingress can undermine user experience (UX), in terms of degraded performance (e.g., slow to crash), impaired heat dissipation, elevated noise levels, etc. According to a survey, in a worst-case scenario, the amount of accumulated household fibrous dust can be up to 2 kg in a year.

The floated dust test utilizes a dust chamber capable of simulating uniformly distributed free-settling dust. 2 kg of test dust composition comprising talcum powder (smaller than 10 microns), Portland Cement (smaller than 45 microns) and specially formulated ground cotton fiber (15-20 microns in diameter and up to 5 mm in length), is circulated for 8 hours. The equipment under test is running as intended. In each 10-minute interval, the test dust composition is blown for 10 seconds. After the test, performance benchmark test, acoustic measurement (per ISO 7779) and the amount of dust ingress are measured immediately. The equipment is classified accordingly.
UL is a premier global independent safety science company that has championed progress for over a century. Its nearly 11,000 professionals are guided by the UL mission to promote safe working and living environments for all people. UL uses research and standards to continually advance and meet ever-evolving safety needs. We partner with businesses, manufacturers, trade associations and international regulatory authorities to bring solutions to a more complex global supply chain. For more information about our certification, verification, validation, testing, inspection, advisory and education services, visit www.UL.com.