



OVERALL SCORE



All LCD, LED, & OLED TVs Ratings

LG OLED65C7P TV

✓ Recommended

A 65-inch OLED Ultra HD TV from LG, with 2160p resolution, four HDMI inputs, and no component-video inputs.

Ratings



TV resolution type	Ultra HD
Screen size (in.)	65
Display type (Backlight)	OLED
Internet-enabled	Yes
HD picture quality	Excellent
Ultra HD performance	Excellent
Viewing angle	Excellent
Sound quality	Excellent
Motion blur	Very Good
Versatility	Excellent
Energy cost/yr. (\$)	27

Highs

- Excellent HD image detail
- Superior, deep black levels
- Excellent 4K (UHD) performance
- HDR performance is very effective
- Unlimited viewing angle

Lows

- Nothing significant

CRs Take

This 65-inch 4K OLED UHD TV from LG is among the best TVs we've tested so far in 2017, with excellent high-definition picture, excellent UHD performance, and excellent sound. It also delivers a very effective HDR performance, which can produce enhanced contrast and brighter specular highlights when done well, something not true of all HDR-compatible TVs this year. (LG 4K TVs support both the HDR10 and Dolby Vision HDR formats; currently, we only test the set's HDR10 performance.) Like all OLED TVs it has an almost unlimited viewing angle, and the sound on this set is excellent. This model has LG's updated webOS 3.5 smart TV platform, which includes a new Magic Motion remote control plus a zoom feature that lets you enlarge a scene on the TV simply by pressing a zoom key on the remote. This set has four HDMI inputs, and three USB ports.

Features

Frame rate (Hz)	N/A
WiFi	Yes
3D-capable	No
3D type	No
Number of 3D glasses included	0
Internet-enabled	Yes
Streaming services	Netflix, YouTube, Amazon Prime Video, and Hulu
Web browser	Yes
DLNA-certified	Yes

Detailed Test Results

HD PICTURE QUALITY. HD picture quality was excellent. It did an excellent job displaying the finest detail of HD content. Contrast—the difference between the darkest blacks and brightest whites—was excellent, so images had great depth and dimension. The brightness level was good, making it a suitable choice for most rooms. Excellent deep black levels are among the best we've seen, giving dark scenes great depth. There was visible banding (unnatural contours) on scenes with subtly shaded light-to-dark areas, such as a sky during sunset, rather than smooth transitions. The deinterlacing and film mode operations were excellent on HD content; there was little or no trace of jaggies on the edges of objects for video and film-based 1080i video content, such as from cable.

VIEWING ANGLE. The overall viewing angle on this display is unlimited, better than most TVs we've tested. Contrast, and depth of black level did not vary regardless of viewing position. When we viewed the TV from the sides the picture showed a slight shift in color tone, but overall color remained consistent with no degradation in overall image quality. When viewing the image from above or below eye level to the screen, the vertical viewing angle was excellent. The picture showed no change in color, contrast, and black level.

ULTRA HD PERFORMANCE. Overall UHD performance was excellent and showed very good HD-to-UHD upconversion. All native 4K content (non HDR) we played on this model, including movies and test videos, was presented in full 4K detail with excellent fidelity when played back via the TV's HDMI input. This TV can stream 4K programs from Netflix and YouTube. Images were clean and finely detailed. High-resolution photos were displayed in full 4K detail.

HIGH DYNAMIC RANGE (HDR) PERFORMANCE. HDR performance was very effective. The display's higher brightness capability helped enhance the realism of our 4K HDR test videos, while revealing very good contrast between moderately bright and very bright highlights within a scene. It did a good job reproducing a greater range of nuanced shadow detail from black to white, with no obvious banding on areas of the image that have subtle shade variations, and no visible loss of near-white shadow detail in the brightest areas. Very bright, colored objects remained nicely saturated, and an extended range of color capability was apparent from our test patterns.

MOTION BLUR. This LG TV has very good motion performance, with minimal blurring on our motion tests, thanks to LG's "TruMotion". This feature is designed to reduce motion blur, a shortcoming of most LCD displays.

SCREEN REFLECTIVITY. Though not as mirror-like as on some models, this screen surface is glossy and therefore susceptible to reflections from a nearby lamp or window. It does a good job reducing glare from ambient light and maintains contrast in a brighter room environment.

SOUND QUALITY. This model has excellent sound quality, among the best we've tested. Whether you're watching a movie blockbuster, a concert, or TV show, it is able to deliver a top quality listening experience. Bass was deep, providing satisfying fullness to the sound, though a bit lacking in clarity, and treble was nicely

detailed. The speakers produced a good volume range so this model should play sufficiently loud in typical room environments and without obvious distortion. You can get better quality from a high performing soundbar or separate home theater system but with this model that shouldn't be necessary.

EASE OF USE. On first power up there is an on-screen guide that helps you through setting up the TV. It comes with LG's Magic Remote which allows you to navigate on screen menus using a traditional button key pad, or via a cursor that appears on the display, for increased flexibility. Using a point-and-click operation, the cursor's movement is linked to the motion of your hand, and is used to make selections. The remote also includes buttons that provide direct access to Netflix and Amazon streaming services.

INTERNET FEATURES. This TV provides advanced Internet capabilities via its "WebOS 3.5" portal with access to a library of applications, and a full Web browser. Movie streaming services include Netflix, YouTube, Amazon Prime Video and Hulu.

CONNECTIONS. This model has four HDMI inputs—one supports ARC (Audio Return Channel), one composite input, and no component input. It also has three USB ports, an optical digital audio out, an Ethernet port, WiFi wireless networking; DLNA, to access files within your home network; Casting, which allows you to send streaming content from your mobile device to the TV via your home network; Screen mirroring, where the image on your smartphone or other compatible device can also appear on the TV. Analog connections are made via a special breakout cable adapter (included) that attaches to the TV as a single plug. That means you plug your component, composite, or stereo cables into a dangling "pigtail" rather than the back of the TV itself. This is actually a more convenient way to make the connections on slim-profile models, but if you lose that adapter you'll have no way to connect your cables directly to the TV. Note: HDMI and other cable connections made to the rear-facing panel will protrude beyond the panel's slim depth.

INCLUDED IN THE BOX. A quick start guide. An electronic manual in the TV's menu. A remote control with batteries. Breakout cable adapters (one composite with stereo audio.). No printed manual is included.

OPTIMIZED PICTURE SETTINGS. Our expert TV testers recommend the following settings for the LG OLED65C7P to get your image looking like the rated picture quality we saw in our lab. To access the picture controls find the Menu, Home, Settings, or "Gear" icon on your remote or on-screen display, and navigate to the picture settings menu where you'll see most of the controls. To find some other controls you may additionally have to enter the "advanced settings" or the "picture options" sub-menus (name may vary depending on model). Don't worry about making any "mistakes." You can always reset the picture settings to factory default if necessary. Consult your user manual for additional guidance.

PICTURE SETTINGS.

Picture Mode: Expert (Dark Room)

Contrast: 90

Brightness: 56

Gamma: BT.1886

Color: 54

Tint: 0

Sharpness: H=0, V=0
Color Temperature: Warm2
Color Gamut = Auto, Black Level = Low, Real Cinema = On, TruMotion = User (De-Blur = 10)
All other settings should be set to "off" or zero "0". Any individual R,G, or B color subcontrols, if present, should remain at their default settings.

TV FIRMWARE. All models are evaluated using the latest firmware version available at the time of testing. The firmware version of the LG OLED65C7P was: 03.50.90.

ABOUT CR's OPTIMIZED PICTURE SETTINGS: Our fine-tuned picture adjustments are made with the support of special test patterns and reference videos to yield best image fidelity, and a professionally calibrated reference display is used for comparison. Whether you are watching movies on Blu-ray or sports from your cable box, these settings will ensure you are seeing the programs in the best quality that the model can offer, short of a professional calibration. To optimize the image, we typically turn off (or turn down) the settings from features that can often degrade performance, including; power saving modes (which often dim the image), sharpness, noise reduction (also known as DNR, a feature that can degrade image detail), and "motion smoothing", if present (an effect that can give movies a soap-opera video-like appearance). Optimal settings for your TV may vary a bit from ours due to slight variations between similar samples, or the model's firmware version.

ABOUT ULTRA HD TESTING: We test UHD picture quality using 4K movies, videos, photos, and test patterns to confirm these displays deliver performance to this format's full potential. We check the TV's ability to reproduce 4K image detail, as well as high dynamic range (HDR) for TVs that support this capability. Image quality is tested using a 4K movie player connected to the TV's HDMI input, as well as from files stored on flash drive plugged into the TV's USB port. We also check the quality of 4K streaming from Netflix or YouTube (if the service is supported by the TV), and how well the TV can upscale HD movies to the display's higher UHD resolution while keeping artifacts such as "jaggies" along the edges of image content to a minimum. The best UHD TVs, and HDTVs, present high fidelity images that reveal the full quality of the best source content without degradation.

ABOUT CR's TV VIEWING CONDITIONS: Our picture settings are optimized for a dimmer home viewing environment. If the settings we recommend don't suit your taste or your environment, use the picture controls to achieve an image you consider "just right."

ABOUT FIRMWARE VERSION: Our test results and picture settings are valid for the version of firmware indicated. If your TV's firmware differs from the one shown you either have an older or a newer version. Manufacturers may periodically upgrade the TV's firmware to enhance operation, fix bugs, or add features. Firmware upgrades may be downloadable directly to your TV via a wired or wireless network (if internet capable), or USB port, depending on your TV's capability. You can check your TV's firmware version, or upgrade to the latest firmware by pressing the menu, or home button on your remote and navigating to the appropriate sub-menu, typically under settings. Consult the user manual or manufacturer's website if further guidance is needed.

About

The LG OLED65C7P is a 65-inch OLED Ultra HD TV with a native resolution of 3840x2160 (2160p).

It is Internet-enabled and can access online content, including movie streaming and other services. The LG OLED65C7P includes an Ethernet jack allowing for a wired connection to your home network. It is also WiFi capable, so you can connect it to your home network wirelessly. It is DLNA certified, so you can view digital photos stored on a compatible computer, phone, or other mobile device also connected to your home network.

This TV has four HDMI inputs, and no component-video inputs. It also has three USB ports, which may be used to play media—photos, videos, and music—stored on a flash drive.

The LG OLED65C7P measures 34.4 inches high by 57.2 inches wide by 8.5 inches deep, including its base. The panel itself is 1.8 inches thick including any protrusions, and the screen has a glossy finish.

The warranty on this model covers parts for 12 months and labor for 12 months.

Specs

Native resolution	3840x2160
Overall height (in.)	34.4
Overall width (in.)	57.2
Overall depth (in.)	8.5
Screen shape (aspect ratio)	16:9
Screen finish	Glossy
Digital Tuner (Off-air ATSC and Cable QAM)	Yes
Panel size without base HxWxD (in.)	32.8 x 57.2 x 1.8
Weight including base (lb.)	54.5
Warranty (months): parts/labor/in-home	12/12/Not Stated

Connections

HDMI inputs	4
Component-video	0
Component/Composite-video shared inputs	0
Composite-video	1
USB port	3
VGA input	No
Ethernet port	Yes
Digital-audio output	Optical
Headphone jack (3.5mm audio jack)	No
Other connections	None