

LG V50 ThinQ™

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5G IS LG
A 5G-Powered
Smartphone



5-CAMERA PHONE
Triple Rear & Dual Front



ARTIFICIAL INTELLIGENCE
AI Composition & AI Cam



IMMERSIVE DISPLAY
6.4" QHD+ OLED FullVision™



EXCEPTIONAL AUDIO
Audio Tuned with Meridian
Boombox Speaker &
DTS:X 3D Surround



	TRIPLE REAR CAMERAS			DUAL FRONT CAMERAS	
	Standard Angle	Super Wide Angle	Telephoto Zoom	Standard Angle	Wide Angle
Field of View	78°	107°	45°	80°	90°
Maximum Aperture	f/1.5	f/1.9	f/2.4	f/1.9	f/2.2
Sensor Size	1/2.6"	1/3.1"	1/3.4"	1/4"	1/5"
Sensor Pixel Size	1.40 μm	1.00 μm	1.00 μm	1.12 μm	1.12 μm
Resolution (up to)	12 MP (4032 x 3024)	16 MP (4656 x 3492)	12 MP (4032 x 3024)	8 MP (3264 x 2448)	5 MP (2560 x 1920)
Flash	LED	LED	LED	Selfie-Light	Selfie-Light

TRIPLE REAR CAMERAS

- **16x Continuous Zoom** - 2x optical zoom-in, 5x digital zoom-in, and 1.6x optical zoom-out, total 16x zoom from super wide-angle to telephoto zoom
- **10-bit HDR Image Sensor** - captures up to 211% more colors for improved accuracy; adjusts highlights and shadows with multiple exposure techniques¹
- **OIS+ and EIS** - capture sharp images quickly with less blur¹
- **Dual PDAF** - autofocus using dual PD pixel sensor (standard angle camera)¹
- **Triple Shot** - capture 3 shots (standard, wide, and tele) and create a short video with one touch
- **Triple Preview** - press and hold a camera icon to see a live preview of the 3 rear lenses
- **Night View** - take sharper photos at night by adjusting the brightness with the slider
- **Manual Mode** - adjust shutter speed, ISO, exposure, white balance, and more; save image as raw (DNG) and JPEG
- **Graphy 2.0²** - select reference photos that automatically adjust Manual Mode settings
- **Food** - adjusts white balance to improve appearance
- **AI Composition** - recognizes up to 3 people and adjusts the picture composition
- **AI Cam** - intelligently suggests the optimal effect and angle by automatically identifying what's in the shot

TRIPLE REAR CAMERAS & DUAL FRONT CAMERAS

- **Penta Shot** - shoot with all 5 cameras at once
- **Studio** - switch the background to a specific color or an image from the gallery
- **Story Shot** - customize selfies by swapping the background with a photo captured with the rear camera or from gallery
- **AR Video Call** - add AR stickers and effects to video calls in real-time³
- **Cine Shot** - create partially animated videos by selecting specific areas to animate

¹ Feature only available on standard rear camera. ² App download required.



Video Recording

- **4K Video Recording at 60 FPS**
- **Resolution:** up to 3840 x 2160 pixels (1920 x 1080 default)
- **Steady Record** - record smoother, clearer videos on the move
- **HDR10 Video Recording** - life-like footage with a wide spectrum of color that is rich, accurate, and high contrast
- **Point Zoom** - zoom in on any selected area within the frame for more stability and control
- **Video Manual Mode*** - adjust audio focus, manual focus, white balance, frame rates, and more

* Not available with some camcorder settings.

Google® Lens - searches what you see and provides relevant online information; features QR code and real-time translator

- **Backdrop** - switch the background to a specific color or an image from the gallery
- **Portrait** - bokeh effect blurs the background while keeping the subject in focus
- **3D Light Effect** - apply lighting effects on the background of selfies; options include Natural, Studio, Contour, Stage, Stage Mono
- **Flash Jump-Cut** - photos are taken every 3 seconds and saved as a GIF
- **Live Photo** - record the action right before and after you take a photo
- **AR Sticker** - personalize photos with a variety of pre-loaded stickers
- **Film Effect** - choose from 17 preset filters
- **HDR** - corrects backlighting with multiple exposure techniques

DUAL FRONT CAMERAS

- **My Avatar** - take a picture of yourself to create a personalizable animated emoji
- **AR Emoji** - 3D graphic animals mimic your facial expressions
- **Makeup Pro** - manually change the appearance of selfies by adjusting complexion, lip color, or enhancing eyes and eyelashes
- **Auto Shot** - take a selfie with automatic face detection
- **Gesture Shot** - take a selfie with a simple hand gesture
- **Gesture Interval Shot** - make a fist twice to take four selfies in a row
- **Gesture View** - automatically preview the image when bringing the phone close
- **Selfie Light** - screen illuminates for well-lit selfies
- **Beauty Shot** - softens facial features
- **Quick Sharing** - access sharing apps instantly after taking pictures and videos

- **Video Portrait** - blurs the background while keeping the subject in focus
- **Cine Effect** - choose from 16 different color grading presets for a cinematic look
- **Slo-mo** - HD 240 FPS Slow Motion Video Recording
- **Time-Lapse Video** - video where time appears to be moving faster
- **Video Studio*** - merge up to 50 photos or videos; trim and add title/text, background music, and theme effect overlays

Audio

- **Audio Tuned with Meridian**
- **Boombox Speaker** - inner resonance chamber along with bottom speaker provides greater sound levels for boosted bass
- **DTS:X Virtual Surround** - deep 3D stereo audio experience¹
- **Hi-Fi Quad Digital-to-Analog Converter (DAC)** – produce crisp, full sound through wired headphones up to 32 bit
- **Sound Preset** - custom options to achieve different sound experiences
- **Digital Filter** - Short, Sharp, or Slow options of Sound Filter characteristics in DAC
- **Super Far-Field Voice Recognition (FFVR)** - improved voice recognition picks up commands better in noisy environments from up to 16' away²

- **Wind Noise Filter** - minimize wind noise during video recording
- **RAM (Receiver as Mic)** - 2 analog mics and the phone's receiver improve sound clarity while recording in loud environments
- **HD Audio Recorder** - choose between Normal, Concert, and Custom modes; record over a separate track
- **Hi-Fi Video Recorder** - 2 high AOP mics record higher-quality sound³
- **Hi-Fi Streaming** - MQA decoder enables high resolution audio to be packaged in a small size

¹ Wired headphones or speakers required. ² Ambient noise and room configuration may lessen operational distance and accuracy. ³ Available only in Manual Mode.

Experience

SECURITY

- **Screen Lock** - Swipe, Knock Code®, Pattern, PIN, Password
- **Fingerprint ID** - access phone, make mobile payments, secure content¹
- **Face Recognition** - unlock screen with facial scan
- **Google Smart Lock** - keep phone unlocked when connected to trusted devices or in trusted places

PRODUCTIVITY

- **Google Assistant with LG Integration** - intelligent personal assistant also performs LG-exclusive device-specific tasks
- **Multi Window** - use two apps simultaneously on a split screen
- **Drag and Drop Picture Gallery** - select multiple pictures and easily drag and drop into sub-folders
- **QTag** - gallery searches with automatic tagging and album creation
- **Smart Rear Key** - scan fingerprint to take pictures or screen captures, scroll down to activate notification bar
- **QuickMemo®+** - write or draw with the paper style, pen size/color of your choice, schedule memos to appear at certain times or locations
- **Capture+** - write or draw on nearly any screen

CONVENIENCE

- **Emotional Haptic Function** - vibrates when AI functionality has detected something
- **App Scaling** - set view to None (Original), Compatibility (16:9), Standard (16.7:9), Full screen
- **Shortcut Keys** - quick access to Capture+, Camera or Google Assistant
- **Comfort view** - decreases amount of blue light on the screen to help alleviate eyestrain
- **Screen Color** - adjust settings for Auto, Eco, Cinema, Sports, Game, Expert, Color temperature or RGB levels
- **Mini View** - shrink the screen for one-handed use
- **Knock On®** - double tap the screen to put your phone to sleep/wake it
- **Smart Cleaning®** - optimize phone storage and test hardware for improved performance
- **Battery Saver** - conserve battery by changing settings and restricting apps in the background
- **LG Health²** - fitness app tracks daily activity

¹ Features and capabilities may vary by carrier. ² This device and related software is not intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment or prevention of disease. Consult a doctor before starting an exercise program.

Entertainment

- **Boombox Show** - music comes alive with a strobe light and screen visuals that move to the music
- **Game Tools** - use take a break function, take a screenshot, scale app, disable alerts during game, hide home touch buttons or adjust resolution and frame rate
- **Accelerometer** - control games by turning and tilting*
- **Music Player** - supports AAC, AAC+, eAAC+, PCM, ADPCM, G.711/726, AMR NB/WB, Vorbis, FLAC, OPUS(MKV), ALAC, MPEG1-LAYER II/III, MPEG2-LAYER II/III, AC3, DSD, DTS(MP4, TS), WMA, and MQ formats

- **LG Music App** - organized by songs, albums, artists, genres, playlists, folders, nearby devices, LG Cloud, and favorites
- **Video Player** with Touch Lock, Live Zooming, Play on Lock Screen, Video Screenshot, and Resume Play Functions; supports H.263, MPEG4(SP/ASP), AVC(H.264), HEVC(H.265), VP 8/9, XviD, MJPEG, and THEORA formats
- **Customizable Video** - Screen Ratio, Subtitle Settings, Playback Speed, and Video Auto-Close Function

* Only available on certain interactions with the touch screen.

Display

- **6.4** QHD+ OLED Display** (3120 x 1440, including notch); 538 ppi
- **FullVision Display** - 19.5:9 Aspect Ratio; 84.3% screen-to-body ratio
- **New Second Screen** - choose to add a color fill to the status bar

* Actual viewable area is less due to rounded corners and notch.

- **Floating Bar** - access app shortcuts and call notifications on a movable/collapsible toolbar
- **Always-On Display** - time, date, and notifications appear on a sleeping screen
- **Palm Rejection** - prevents accidental interactions on the touch screen

Design & Durability

- **Size:** 6.25" (H) x 2.98" (W) x 0.33" (D), **Weight:** 6.46 oz.
- **Dedicated Google Assistant Key**
- **IP68 Dust and Water Resistant**¹
- **Shock Resistant** - MIL-STD-810G Tested²

- **Corning® Gorilla® Glass 5** – protection on front
- **Corning Gorilla Glass 6** – protection on back and camera
- **Heat Pipe** - absorbs and moves heat away from the processor to help minimize the risk of overheating

¹ Tested under controlled laboratory conditions with a rating of IP68 under IEC standard 60529 (Water resistant up to 1.5 meters for 30 minutes). If the product gets wet, use a clean, soft cloth to dry it thoroughly.
² Compliant with a military standards test (MIL-STD-810G Method 516.6, Procedure IV "Transit Drop"). Device may not perform as tested in all conditions. Test performed in controlled environment. Do not attempt.

Connectivity

- **Network:** 5G, LTE, GSM, UMTS
- **Frequencies:** 5G n261, n260, LTE Bands 2/3/4/5/7/13/20/28/46/48/66; GSM 850/900/1800/1900; UMTS Bands 1/2/5/8
- **Data Transmission:** 5G, LTE Carrier Aggregation, HSPA+, HSDPA, HSUPA, GSM
- **Mobile Hotspot**¹ - share a data connection with up to 8 wireless devices²
- **Bluetooth®** Wireless Technology Version 5.0
- **Supported Bluetooth Profiles:** A2DP, AVRCP, DI, GAVDP, GOEP, HDP, HFP, HID, HSP, MAP, OPP, PAN, PBAP, SPP, HOGP, ScPP
- **Wi-Fi® Standards:** 802.11 a/b/g/n/ac
- **Wi-Fi Direct®** - connect directly to devices

- **USB³ and Bluetooth Tethering**¹ - share your Internet connection
- **Android Beam (NFC)** - share contacts, web pages, and more
- **Media Server** - allow nearby devices to access content
- **Screen Sharing** - wirelessly mirror device screen
- **MIDI Device** - connect to musical instruments via USB³
- **HD Voice+ Capable**⁴
- **MirrorLink®** - connect to a MirrorLink-capable car to share your screen and apps
- **S-GPS, A-GPS, and Qualcomm® Service** for Enhanced Location Accuracy

¹ Carrier service required. Product features subject to change. Features based on carrier program availability. Additional charges may apply. ² Depends on network availability. Additional carrier charges may apply. ³ USB cable required (included). ⁴ HD Voice+ required on both caller and receiver devices.

Power & Performance

- **Platform:** Android™ 9.0 (Pie)
- **User Interface:** LG UX 8.0
- **Processor:** Qualcomm Snapdragon™ 855 Octa-core (up to 2.84 GHz x 1 + 2.42 GHz x 3 + 1.79 GHz x 4)
- **Battery Capacity:** 4,000 mAh Non-Removable
- **Talk Time:** 25 hours¹

- **Charging:** USB Type-C™ port; wireless charging²; Qualcomm Quick Charge™ 3.0
- **Internal Memory:** 128 GB (103 GB usable)³
- **microSD™:** supports card up to 2 TB (cards sold separately)
- **RAM:** 6 GB
- **Hearing Aids:** Rated for M4, T3

¹ Actual time may vary depending on network connectivity and application use. ² Wireless charger sold separately. ³ Usable memory varies depending on software version and settings.

LG Accessories

- USB Type-C Cable (Quick Charge 3.0 Charger)¹

- Bluetooth Stereo Headset²

¹ Included with phone. ² Available models vary by carrier.