LG V50 ThinQ™

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
### Cameras

#### TRIPLE REAR CAMERAS

<table>
<thead>
<tr>
<th>Field of View</th>
<th>Standard Angle</th>
<th>Super Wide Angle</th>
<th>Telephoto Zoom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>78˚</td>
<td>107˚</td>
<td>45˚</td>
</tr>
<tr>
<td>Maximum Aperture</td>
<td>f/1.5</td>
<td>f/1.9</td>
<td>f/2.4</td>
</tr>
<tr>
<td>Sensor Size</td>
<td>1/2.6”</td>
<td>1/3.1”</td>
<td>1/3.4”</td>
</tr>
<tr>
<td>Sensor Pixel Size</td>
<td>1.40 µm</td>
<td>1.00 µm</td>
<td>1.00 µm</td>
</tr>
<tr>
<td>Resolution (up to)</td>
<td>12 MP (4032 x 3024)</td>
<td>16 MP (4656 x 3492)</td>
<td>12 MP (4032 x 3024)</td>
</tr>
<tr>
<td>Flash</td>
<td>LED</td>
<td>LED</td>
<td>LED</td>
</tr>
</tbody>
</table>

#### DUAL FRONT CAMERAS

<table>
<thead>
<tr>
<th>Field of View</th>
<th>Standard Angle</th>
<th>Wide Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80˚</td>
<td>90˚</td>
</tr>
<tr>
<td>Maximum Aperture</td>
<td>f/1.9</td>
<td>f/2.2</td>
</tr>
<tr>
<td>Sensor Size</td>
<td>1/3.1”</td>
<td>1/5”</td>
</tr>
<tr>
<td>Sensor Pixel Size</td>
<td>1.12 µm</td>
<td>1.12 µm</td>
</tr>
<tr>
<td>Resolution (up to)</td>
<td>8 MP (3264 x 2448)</td>
<td>5 MP (2560 x 1920)</td>
</tr>
<tr>
<td>Flash</td>
<td>Selfie-Light</td>
<td>Selfie-Light</td>
</tr>
</tbody>
</table>

**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 techniques
- **OIS+ and EIS** - capture sharp images quickly with less blur
- **Dual PD AF** - autofocus using dual PD pixel sensor (standard angle camera)
- **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 2.0** - select shutter speed, ISO, exposure, white balance, and more; save image as raw (DNG) and JPEG
- **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-time
- **Cine Shot** - create partially animated videos by selecting specific areas to animate

**DUAL FRONT CAMERAS**

- **My Avatar** - take a picture of yourself to create a personalize 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

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**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
- **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

*Not available with some camcorder settings.*
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 experience
• 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' away
• 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 high-quality sound
• Hi-Fi Streaming - MQA decoder enables high resolution audio to be packaged in a small size

Experience

SECURITY

• Screen Lock - Swipe, Knock Code®, Pattern, PIN, Password
• Fingerprint ID - access phone, make mobile payments, secure content
• 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

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, MPEG, and THEORA formats
• Customizable Video - Screen Ratio, Subtitle Settings, Playback Speed, and Video Auto-Close Function

1 Wired headphones or speakers required. 2 Ambient noise and room configuration may lessen operational distance and accuracy. 3 Available only in Manual Mode.
**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 Resistant¹
- Shock Resistant - MIL-STD-810G Tested²

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 MIL-STD-810G Tested

**Connectivity**

- Network: 5G, LTE, GSM, UMTS
- Data Transmission: 5G, LTE Carrier Aggregation, HSPA+, HSUPA, HSPA, GSM
- Mobile Hotspot¹ - 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
- USB¹ and Bluetooth Tethering¹ - 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 Sharing - allows nearby devices to access content
- 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

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.

- Charging: USB Type-C™ port, wireless charging; 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

**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.