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

www.lg.com/us/V50_ThinQ-sprint
**Camer**as

### TRIPLE REAR CAMERAS

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

### TRIPLE REAR CAMERAS & DUAL FRONT 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 PDAF** - 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
- **Super Bright Camera** - automatically activated in extreme low light to capture bright photos and video
- **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 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

### DUAL FRONT CAMERAS

- **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

### 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

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1 Feature only available on standard rear camera. 2 Feature not available on Telephoto Zoom lens. 3 App download required.
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\(^1\)
- **32-Bit Hi-Fi Quad Digital-to-Analog Converter (DAC)** - produces crisp, full sound through wired headphones
- **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\(^2\) 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 higher-quality sound\(^3\)
- **Hi-Fi Streaming** - MQA decoder enables high resolution audio to be packaged in a small size

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Experience

**SECURITY**
- **Screen Lock** - Swipe, Knock Code\(^\circledast\), Pattern, PIN, Password
- **Fingerprint ID** - access phone, make mobile payments, secure content\(^1\)
- **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\(^\circledast\)** - 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
- **Barge-in** - recognizes "Hey Google" commands while audio is playing
- **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\(^\circledast\)** - double tap the screen to put your phone to sleep/wake it
- **Smart Cleaning\(^\circledast\)** - optimize phone storage and test hardware for improved performance
- **Battery Saver** - conserve battery by changing settings and restricting apps in the background
- **LG Health**\(^2\) - fitness app tracks daily activity

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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.

**Design & Durability**

- Size: 6.25" (H) x 2.98" (W) x 0.33" (D), Weight: 6.4 oz.
- Dedicated Google Assistant Key
- IP68 Dust and Water Resistant
- Shock Resistant - MIL-STD-810G Tested

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**

- 1.7 Gbps 5G Network
- Network: LTE, CDMA, GSM, UMTS
- Frequencies: LTE Bands 1/2/3/4/5/7/8/12/13/17/20/25/26/28/30/31/32/38/39/40/41/46/66/71; CDMA Band Class 0/1/10; GSM 850/900/1800/1900 MHz; UMTS Bands 1/2/4/5/8
- Data Transmission: LTE Carrier Aggregation, HSPA+, HSDPA, HSUPA, 1xRTT, EVDO, EVDO Rev A, GSM
- Mobile Hotspot - share a data connection with up to 8 wireless devices
- Bluetooth® Wireless Technology Version 5.0
- Supported Bluetooth Profiles: A2DP, AVRCP, DI, GAVDP, GOEP, HDP, HFP, HID, HSP, MAP, OPP, PAN, PBAP, SP, HOGP, SCFP, aptX
- Wi-Fi Standards: 802.11 a/b/g/n/ac
- Wi-Fi Direct® - connect directly to devices
- USB® and Bluetooth Tethering - 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 USB
- HD Voice®: Capable
- 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 5G Network not available everywhere. 2 Carrier service required. Product features subject to change. Features based on software version and settings.

**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: 26 hours

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)

**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)
- QuadPlay Headset
- Bluetooth Stereo Headset

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