

# Google Pixel 7

*Released October 2022*

## Design & Build

- **Materials:** An aluminum frame with a matte finish and recycled glass back
- **Dimensions & Weight:** Approximately 155.6 x 73.2 x 8.7 mm; ~197 grams
- **Finish Options:** Available in multiple colors (e.g., Obsidian, Lemongrass)

## Display

- **Type:** OLED with HDR support
- **Size & Resolution:** 6.3-inch, 1080 x 2400 pixels (~416 ppi)
- **Refresh Rate:** 90 Hz for smooth scrolling
- **Protection:** Corning Gorilla Glass Victus

## Performance

- **Processor:** Google Tensor G2
- **RAM:** 8 GB
- **Storage Options:** 128 GB or 256 GB (non-expandable)
- **Graphics:** Integrated GPU optimized for AI and imaging tasks

## Camera System

- **Rear Cameras:**
  - **Main:** 50 MP sensor with advanced computational photography
  - **Ultra-Wide:** 12 MP sensor for a broader field of view
  - Features include optical image stabilization (OIS), Night Sight, and 4K video recording
- **Front Camera:** 10.8 MP sensor with autofocus and 4K video support

### Battery & Charging

- **Battery Capacity:** ~4355 mAh
- **Charging:** Fast wired charging; supports wireless charging
- **Battery Life:** Designed to comfortably last through a full day with moderate to heavy use

### Software & Connectivity

- **Operating System:** Launched with Android 13, with ongoing updates
- **Connectivity:** 5G, Wi-Fi 6E, Bluetooth 5.2, NFC, and UWB support
- **Security:** Titan M2 chip integrated for enhanced security

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# Google Pixel 8 Pro

*Released October 2023*

## Design & Build

- **Materials:** Premium aluminum frame with a textured glass back for improved grip
- **Dimensions & Weight:** Roughly 162.7 x 76.8 x 8.9 mm; weight near 213 grams
- **Finish Options:** Offered in a range of sophisticated finishes (e.g., Obsidian, Hazel)

## Display

- **Type:** LTPO OLED with HDR10+ support
- **Size & Resolution:** 6.7-inch display; QHD+ resolution (approx. 1440 x 3120 pixels)
- **Refresh Rate:** Adaptive up to 120 Hz for efficiency and fluid performance
- **Protection:** Corning Gorilla Glass Victus

## Performance

- **Processor:** Google Tensor G3, engineered for faster AI, imaging, and multitasking
- **RAM:** 12 GB
- **Storage Options:** 128 GB, 256 GB, or 512 GB
- **Optimizations:** Enhanced machine learning and computational photography capabilities

## Camera System

- **Rear Cameras:**
  - **Main:** 50 MP sensor with improved low-light performance
  - **Telephoto:** 48 MP sensor offering high-quality optical zoom
  - **Ultra-Wide:** 12 MP sensor
  - Advanced features include Pro mode, Real Tone, and cinematic video recording in 4K

- **Front Camera:** 10.8 MP sensor designed for high-quality selfies and video calls

### Battery & Charging

- **Battery Capacity:** Estimated around 5000 mAh
- **Charging:** Supports fast charging, wireless charging, and Battery Share for reverse charging

### Software & Connectivity

- **Operating System:** Ships with Android 14, featuring exclusive Pixel enhancements
  - **Connectivity:** 5G, Wi-Fi 6E, Bluetooth 5.3, NFC, and UWB for improved spatial awareness
  - **Additional:** Enhanced security features with a dedicated Titan security module
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# Google Pixel 6 Pro

*Released October 2021*

### Design & Build

- **Materials:** Polished aluminum frame paired with a glass back
- **Dimensions & Weight:** 163.9 x 75.9 x 8.9 mm; approximately 213 grams
- **Finish Options:** Available in Stormy Black, Cloudy White, and Sorta Sunny

## Display

- **Type:** LTPO OLED with HDR support
- **Size & Resolution:** 6.71-inch display; 1440 x 3120 pixels (~512 ppi)
- **Refresh Rate:** Adaptive 10-120 Hz
- **Protection:** Corning Gorilla Glass Victus

## Performance

- **Processor:** Google Tensor (first-gen)
- **RAM:** 12 GB
- **Storage Options:** 128 GB, 256 GB, or 512 GB
- **Graphics:** Enhanced GPU performance suited for gaming and multimedia

## Camera System

- **Rear Cameras:**
  - **Main:** 50 MP sensor with OIS
  - **Telephoto:** 48 MP sensor offering up to 4x optical zoom
  - **Ultra-Wide:** 12 MP sensor
  - Features include Real Tone, Night Sight, and advanced video recording options (4K at 60 fps)
- **Front Camera:** 11.1 MP sensor with wide-angle capture and improved low-light performance

## Battery & Charging

- **Battery Capacity:** 5003 mAh

- **Charging:** Supports fast wired charging and wireless charging
- **Battery Life:** Optimized for all-day use with intelligent battery management

## Software & Connectivity

- **Operating System:** Originally launched with Android 12, upgradeable to later versions
  - **Connectivity:** 5G, Wi-Fi 6E, Bluetooth 5.2, NFC, and ultra-wideband (UWB) support
  - **Other:** IP68 dust and water resistance
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# Google Pixel 6a

*Released July 2022*

## Design & Build

- **Materials:** A polycarbonate body with a matte finish for durability
- **Dimensions & Weight:** Approximately 152.2 x 71.8 x 8.9 mm; around 178 grams
- **Finish Options:** Offered in a few colors, typically including Chalk and Charcoal

## Display

- **Type:** OLED panel with HDR support
- **Size & Resolution:** 6.1-inch display; 1080 x 2400 pixels (~429 ppi)
- **Refresh Rate:** 60 Hz (standard for the “a” lineup)

- **Protection:** Corning Gorilla Glass 3

## Performance

- **Processor:** Google Tensor (same first-gen chip as in Pixel 6)
- **RAM:** 6 GB
- **Storage Options:** 128 GB (non-expandable)
- **Efficiency:** Balanced for daily use and efficient power management

## Camera System

- **Rear Cameras:**
  - **Main:** 12.2 MP sensor with OIS
  - **Ultra-Wide:** 12 MP sensor offering a broader perspective
  - Features include Night Sight and Portrait Mode
- **Front Camera:** 8 MP sensor for selfies and video calls

## Battery & Charging

- **Battery Capacity:** Approximately 4410 mAh
- **Charging:** Standard fast charging; supports wireless charging via compatible accessories

## Software & Connectivity

- **Operating System:** Launched with Android 12; eligible for future updates

- **Connectivity:** 5G, Wi-Fi 6, Bluetooth 5.2, NFC
  - **Additional:** Designed with sustainability and affordability in mind
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# Google Pixel 5

*Released October 2020*

## Design & Build

- **Materials:** An aluminum body with a bio-resin coating for improved grip
- **Dimensions & Weight:** 144.7 x 70.4 x 8.0 mm; about 151 grams
- **Finish Options:** Available primarily in Just Black and Sorta Sage
- **Certifications:** IP68 dust and water resistance

## Display

- **Type:** OLED panel with HDR support
- **Size & Resolution:** 6.0-inch display; 1080 x 2340 pixels (~432 ppi)
- **Refresh Rate:** 90 Hz for smoother visuals
- **Protection:** Corning Gorilla Glass 6

## Performance

- **Processor:** Qualcomm Snapdragon 765G (optimized for 5G connectivity)



- **RAM:** 8 GB
- **Storage Options:** 128 GB (non-expandable)
- **Usage:** Geared toward balanced performance with efficiency

## Camera System

- **Rear Cameras:**
  - **Main:** 12.2 MP sensor with OIS
  - **Ultra-Wide:** 16 MP sensor for a wider capture angle
  - **Video:** 4K recording up to 60 fps and enhanced stabilization features
- **Front Camera:** 8 MP sensor, optimized for Portrait mode and Night Sight

## Battery & Charging

- **Battery Capacity:** 4080 mAh
- **Charging:** Supports fast charging and Qi-wireless charging
- **Battery Life:** Designed for all-day use under moderate conditions

## Software & Connectivity

- **Operating System:** Shipped with Android 11; received updates to later versions
  - **Connectivity:** 5G, Wi-Fi 5/6, Bluetooth 5.0, NFC
  - **Additional:** Emphasis on software-driven photography enhancements
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# Google Pixel 4

*Released October 2019*

## Design & Build

- **Materials:** Glass front and back with an aluminum frame
- **Dimensions & Weight:** 147.1 x 68.8 x 8.2 mm; roughly 162 grams
- **Finish Options:** Typically offered in Clearly White and Just Black
- **Unique Feature:** Integrated Motion Sense (using radar for gesture control)
- **Certifications:** IP68 water and dust resistance

## Display

- **Type:** P-OLED panel with HDR support
- **Size & Resolution:** 5.7-inch display; 1080 x 2280 pixels (~444 ppi)
- **Refresh Rate:** 90 Hz
- **Protection:** Corning Gorilla Glass 5

## Performance

- **Processor:** Qualcomm Snapdragon 855
- **RAM:** 6 GB
- **Storage Options:** 64 GB or 128 GB (non-expandable)
- **Usage:** Optimized for everyday tasks with strong imaging performance

## Camera System

- **Rear Cameras:**
  - **Main:** 12.2 MP sensor with OIS
  - **Telephoto/Secondary:** 16 MP sensor offering 2x optical zoom
  - Features include Night Sight and astrophotography mode
  - Video: 4K recording with enhanced stabilization
- **Front Camera:** 8 MP sensor supporting wide-angle selfies and Face Unlock

## Battery & Charging

- **Battery Capacity:** Approximately 2800 mAh
- **Charging:** Supports fast charging and Qi-wireless charging
- **Battery Life:** Optimized by Pixel's software enhancements

## Software & Connectivity

- **Operating System:** Launched with Android 10; upgradeable with subsequent Android versions
- **Connectivity:** 4G LTE (Pixel 4 did not support 5G), Wi-Fi 802.11 ac, Bluetooth 5.0, NFC
- **Additional:** Advanced on-device AI for photography and security features

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These detailed specifications reflect each model's focus—from flagship-level performance and camera innovations in the Pixel 8 Pro and Pixel 6 Pro to the more streamlined, budget-friendly yet capable experiences in the Pixel 6a, Pixel 5, and Pixel 4. For the very latest software updates and region-specific configurations, please refer to Google's official documentation or support pages.