

Samsung Galaxy S25 Ultra – Overview

1. Introduction

The Samsung Galaxy S25 Ultra is Samsung's 2025 flagship smartphone, combining cutting-edge camera technology, AI integration, and a premium Titanium design.

2. Design & Build

- Titanium frame with improved durability
- Slimmer bezels and a 6.9-inch Dynamic AMOLED 2X display
- In-display ultrasonic fingerprint sensor
- IP68 water/dust resistance

3. Display

- 6.9" Dynamic AMOLED 2X
- 120Hz adaptive refresh rate
- Peak brightness up to ~3000 nits
- QHD+ resolution

4. Performance

- Processor: Snapdragon 8 Gen 4 (for Galaxy)
- RAM: 12GB / 16GB options
- Storage: 256GB / 512GB / 1TB UFS 4.1
- Improved thermal management with vapor cooling chamber

5. Camera System

- 200MP primary sensor (improved low-light performance)
- 50MP periscope zoom with up to 10x optical
- 50MP ultrawide lens
- Advanced Galaxy AI for photo optimization

- 8K video recording, AI stabilization

6. Battery & Charging

- 5500 mAh battery
- 45W wired fast charging
- 25W wireless charging
- AI-based battery longevity optimization

7. Software & AI Features

- One UI 7 with Android 15
- Enhanced Galaxy AI: real-time translation, AI zoom, note summarization
- DeX wireless improvements

8. Connectivity

- Wi-Fi 7 support
- Bluetooth 6.0
- 5G mmWave + Sub6
- UltraWideband (UWB)

9. Special Features

- S-Pen support (improved latency)
- AI search and smart suggestions
- Environmental sensors for contextual automation

10. Conclusion

The Samsung S25 Ultra is positioned as a future-ready flagship that emphasizes AI, photography, and premium build quality—making it an ideal device for users seeking top-tier performance and innovation.