

CHANGE NOTE

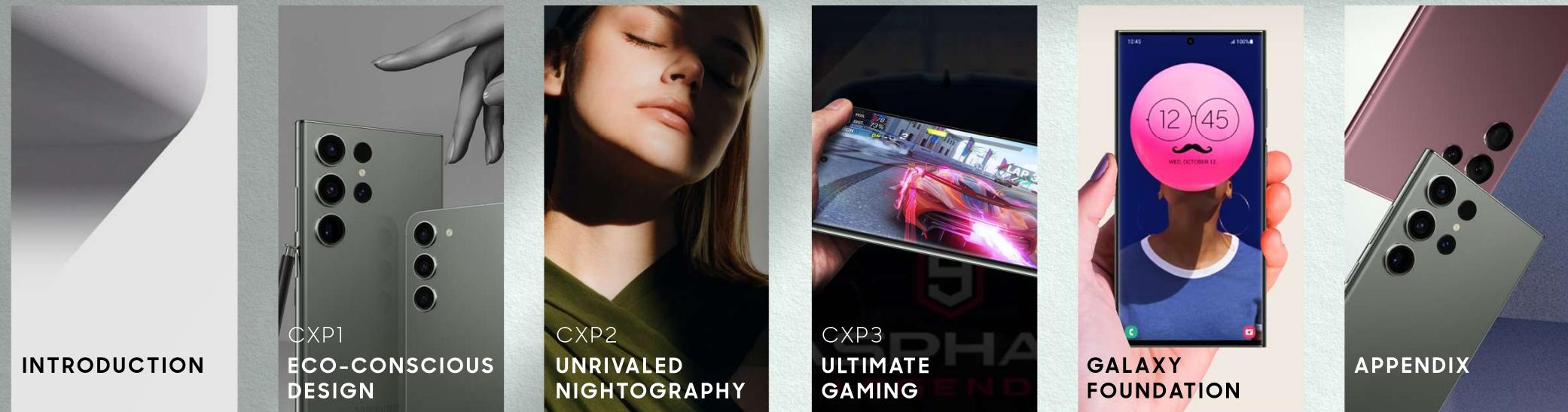
Date	Details
2022.12.02	<p>1st version upload (Subject to continuous updates)</p> <p>#7/28 Chipset images updated #14/41 Battery Pack/Rugged Gadget images updated #15 Gorilla® Glass 8 → Gorilla® Glass Victus® 2 #28 VDE display certification added, Text updated #29 Text/images for Vision Booster & Enhanced Comfort updated #30 Text/images updated, text/images for Longer Video Streaming deleted #37 Internet browsing continuity → Browser Continuity #40 Disclaimer for private file detection availability added #45 Specs updated #4/27/31 Text updated (Memory & Storage) #29 Text updated, Disclaimer for Vision Booster added #37 Text updated (Browser Continuity → Recent websites) #38 Disclaimer for Auto file share added #40 Feature name updated (Private file detection → Photo analyzer for private info), Disclaimer updated #4/6/8 CXP name updated (Eco-conscious Design) #5/7/29/43/46 Chipset name, images, figures updated #12 Text updated #13 Text updated #15 Sustainability slide added #31 Video/audio playback time updated, Disclaimer added #38 Images updated #39 Image updated, Feature deleted (Auto video share) #5/32 Spec updated (DM3 12 + 256GB) #7/21 OIS angle deleted #10 Natural Dye added #12 Natural Dye deleted #13 Text updated #14 NEW badge for Silicone Grip Case deleted #19 Spec for DM2/DM1 Ultra Wide updated, Text updated (Super Clear Glass → Super Clear Lens) #26 Text updated #31 Disclaimer updated #46 Text updated (Reverse Wireless Charging → Wireless PowerShare)</p>
2022.12.09	
2022.12.23	
2023.01.06	
2023.01.20	
2023.02.01	<p>Product name and logo updated #19/46 Spec for Ultra Wide camera deleted</p>

Galaxy S23 Series

Workshop Deck



TABLE OF CONTENTS



INTRODUCTION

CXP1 ECO-CONSCIOUS DESIGN

CXP2 UNRIValed NIGHTOGRAPHY

CXP3 ULTIMATE GAMING

GALaxy FOUNDATION

APPENDIX

Product Overview	5	Premium Design	9	Camera Overview	19	Gaming Performance	29	Hi, One UI 5!	34	N-1~4 Comparison	43
Value Proposition	6	Shades in Nature	10	Night Photos	20	Intelligent Display	30	Customization	35	Competitive Comparison	44
Key Improvements	7	Shades in Dreams	11	Night Videos	21	Worry-free Battery	31	Productivity	37	Galaxy Comparison	46
		Eco-conscious Materials	12	Backlit Photos with Rich Details	22	Memory & Storage	32	Privacy & Security	41	Spec Table	47
		Accessories	14	200MP Ultra-fine Precision	23			Galaxy Eco	42		
		Enhanced Durability	16	Greater Control for Pros	24						
				Intelligent Gallery	27						

PRODUCT OVERVIEW



S23 Ultra

	Wide	200 MP
	Ultra Wide	12 MP
	Tele1 (x3)	10 MP
	Tele2 (x10)	10 MP

12 MP Dual Pixel AF

Snapdragon 8 Gen 2 for Galaxy (4 nm)

S23 Ultra
8 + 256 GB
12 + 256 GB
12 + 512 GB
12 + 1 TB

S23 Ultra
5,000 mAh

PHANTOM BLACK **CREAM**

S23 | S23+

	Wide	50 MP
	Ultra Wide	12 MP
	Tele1 (x3)	10 MP

S23+
8 + 256 GB
8 + 512 GB

S23
8 + 128 GB
8 + 256 GB
8 + 512 GB

S23+
4,700 mAh

S23
3,900 mAh

GREEN **LAVENDER**



VALUE PROPOSITION



Galaxy S23 Series Share the epic

Key CXPs

1

ECO-CONSCIOUS DESIGN



1. Premium Design
2. Shades in Nature
3. Eco-conscious Materials
4. Enhanced Durability

2

UNRIVALED NIGHTOGRAPHY



1. Night Photos
2. Night Videos
3. Incredible Details
4. Intelligent Gallery

3

ULTIMATE GAMING



1. Gaming Performance
2. Intelligent Display
3. Worry-free Battery
4. Memory

Galaxy Foundation



Customization



Life Productivity



Privacy & Security



Galaxy Eco

KEY IMPROVEMENTS

DESIGN

Unified floating camera design & New Edge Design



More eco-conscious materials on products



CAMERA

Enhanced night selfies & portraits



Selfies
More authentic colors



Portraits
More natural bokeh



Higher resolution with wider OIS

S22 Ultra

Wide 108 MP



S23 Ultra

Wide **200 MP**
2x wider OIS

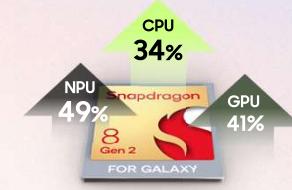


PERFORMANCE

The most advanced processor ever on a Galaxy



S22 Series



S23 Series

Larger battery

3700 mAh
S22
+200

3900 mAh
S23

4700 mAh
S22+
+200

4500 mAh
S23+

Better outdoor visibility

Vision Booster
On-off system

S22



Adaptive Vision Booster

Level 1
Level 2
Level 3

S23



CXP1

ECO-CONSCIOUS DESIGN

The harmony of the ultimate camera technology and premium design creates the identity of the Galaxy S series



PREMIUM DESIGN



SHADES IN NATURE



ECO-CONSCIOUS MATERIALS



ENHANCED DURABILITY

1. Premium Design

Galaxy design identity that delivers the best camera performance with sophisticated details



FLOATING CAMERA DESIGN

Complete Galaxy camera design identity
for superior camera technology

S23 Ultra

NEW EDGE DESIGN

Larger flat areas
for better productivity
with a comfortable grip



2. Shades in Nature

Soft, sustainable colors inspired by the natural beauty of earth tones

Natural Dye

- Metal frame
(Armor Aluminum)

Gardenia fruit



PHANTOM
BLACK

LAVENDER

Cacao husk



CREAM

GREEN

PHANTOM BLACK

Classic originality



S23 SIGNATURE

CREAM

Unbleached,
pure cotton



S23 Ultra SIGNATURE

GREEN

The calm mid-tone
of a foggy forest



CXP 1. ECO-CONSCIOUS DESIGN

CXP 2.

CXP 3. FOUNDATION

S23 + SIGNATURE

LAVENDER

The bright mood
of blossoms



2. Shades in Dreams

Online Exclusive

Pleasant and energizing colors, exclusive to Samsung.com



LIME

An icy pale green
with a cool vibe



GRAPHITE

An elegant
deep gray hue



CXP 1. ECO-CONSCIOUS DESIGN

CXP 2.

CXP 3.

FOUNDATION

SKY BLUE

A refreshingly
smooth blue



RED

The earthy undertone
of a fiery sunset





3. Eco-conscious Materials

A phone designed to make a positive impact on the planet

01 Made with recycled materials

Featuring upcycled glass, plastic, film, and sustainable dyes across the product

Metal

Recycled Aluminum

- SIM tray
- Volume/side keys (outer)

Plastic

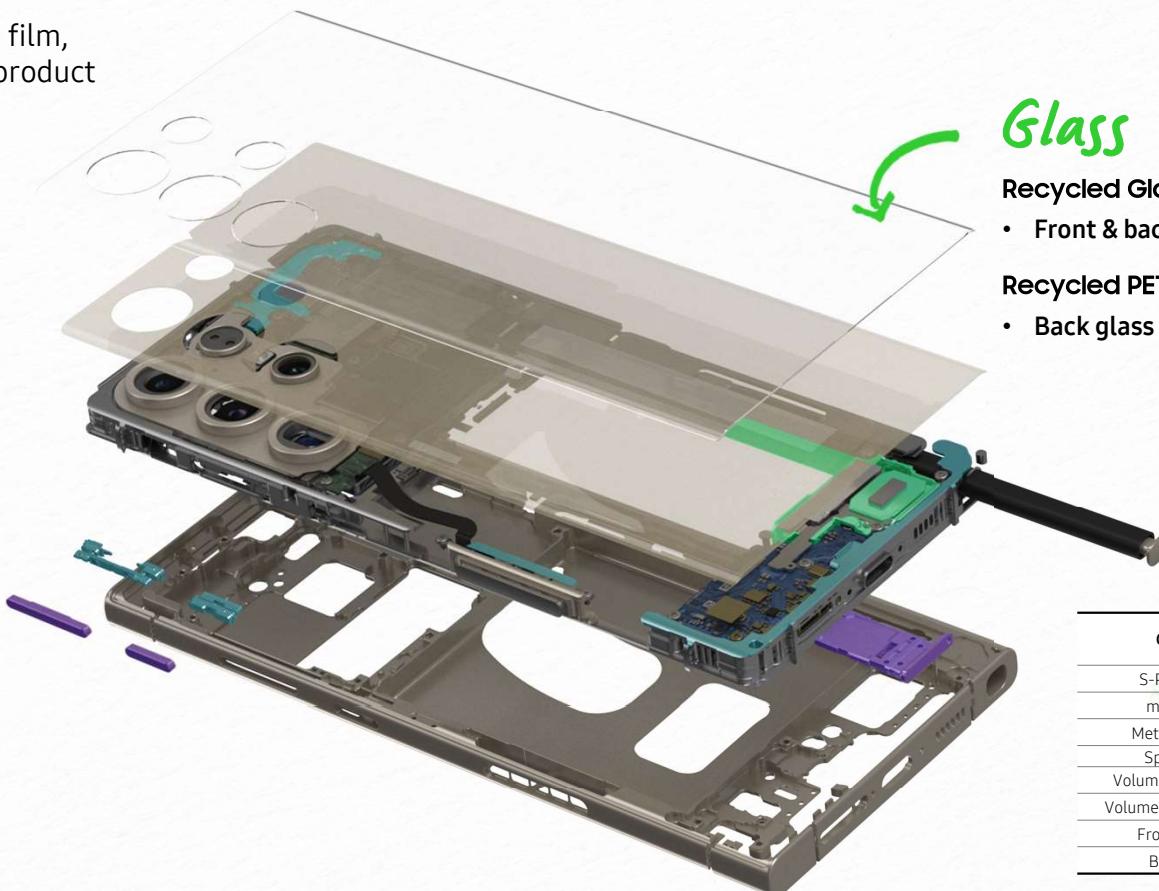
Recycled Plastic (PCM)

- Volume/side keys (inner)
- Metal bonding resin
- Speaker module (certain parts)

Ocean-bound Plastic (OBP)

- S Pen inner cover
- Speaker module (certain parts)

* mmWave ANT deco is also made from PCM and OBP (US, Japan only)



CXP 1. ECO-CONSCIOUS DESIGN

CXP 2.

CXP 3.

FOUNDATION

Glass

Recycled Glass

- Front & back glass

Recycled PET

- Back glass film

Components	Recycled materials used (S23 Ultra, grams)
S-Pen inner cover	Recycled 0.14g / total 0.71g
mmW ANT Deco	Recycled 0.01g / total 0.09g
Metal bonding resin	Recycled 0.96g / total 9.6g
Speaker module	Recycled 0.55g / total 2.75g
Volume/side keys (inner)	Recycled 0.016g / total 0.081g
Volume/side keys, SIM Tray	Recycled 0.09g / total 0.29g
Front & back glass	Recycled 6.9g / total 27.8g
Back glass film	Recycled 0.65g / total 0.81g

3. Eco-conscious Materials

Packaging and accessories that prevent waste and protect the earth

02 Recycled accessories & packaging

Eco-conscious accessories & packaging made with carbon-neutral, 100% recycled materials

Packaging

100% recycled paper

for box & Front protector, Back cover protector



Paper
seal label

* Availability may vary by country.

Accessory

All accessories use eco-conscious materials
(8 cases & screen protector)

Smart View Wallet Case



Bio PU skin
from corn



VALIDATED

33% recycled
PET micro fiber

20% PCM

20-40% reduction
in carbon footprint

※ ACCESSORIES

Accessories all certified by UL Solutions as part of our efforts toward sustainability

NEW Clear Gadget



- Mount structure for extended usability
- Gadget customization

3rd party eco support

NEW Rugged Gadget



- US military drop-test certified
- Gadget customization

3rd party eco support

Silicone Grip Case



- Easy phone carry
- Strap customization

3rd party eco support

Smart View Wallet Case



- Touch interaction
- Card pocket added

Frame Case



- Simple & light
- Back-plate customization

3rd party eco support

Clear Case



- Maximized transparency
- Stronger against yellowing

Silicone Case



- Various trendy color
- Maximized softness

Leather Case



- Premium design identity
- Natural leather

Battery Pack



Dual C-type Port
(25W, 10,000 mAh)

SUSTAINABILITY VISION & MESSAGE

Everyday Sustain**cb**ility

From Galaxy smartphones made of recycled materials from discarded fishing nets, to eco-packaging that transforms box packaging into everyday living items, to home appliances that help you use energy more efficiently via SmartThings Energy.

Together for Tomorrow

Samsung's eco-conscious technology and innovation are built into all of our products. Simply by using them, customers can make small actions for a better planet in their daily life. These small changes come together to make our lives more sustainable.

To take a step towards a better future together, let's make small yet meaningful changes every day. It's what we call "EVERYDAY SUSTAINABILITY".



4. Enhanced Durability

A durable design that withstands any situation for long-term use

01 **Toughest Glass**

Our toughest glass with Corning® Gorilla® Glass Victus® 2
(front & back)

**CORNING®
GORILLA® GLASS VICTUS® 2**



02 **Armor Aluminum**

Aircraft-grade strength
Armor Aluminum
(frame)

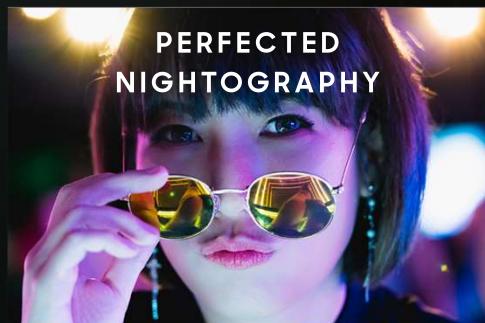
**ARMOR
ALUMINUM**



CXP 2

UNRIValed NIGHTOGRAPHY

Packs the power of a pro camera to let you shoot in low-light conditions without sacrificing quality or detail



ULTIMATE PRO-GRADE CAMERA EXPERIENCE

Make all your photos and videos epic, day or night

NIGHTOGRAPHY

Night photos

Clearer night selfies & portraits with lifelike colors



Night videos

Clear, sharp videos with less noise



Backlit photos with rich details

More details in the bright and dark areas of your photos

INCREDIBLE DETAILS



S23 Ultra

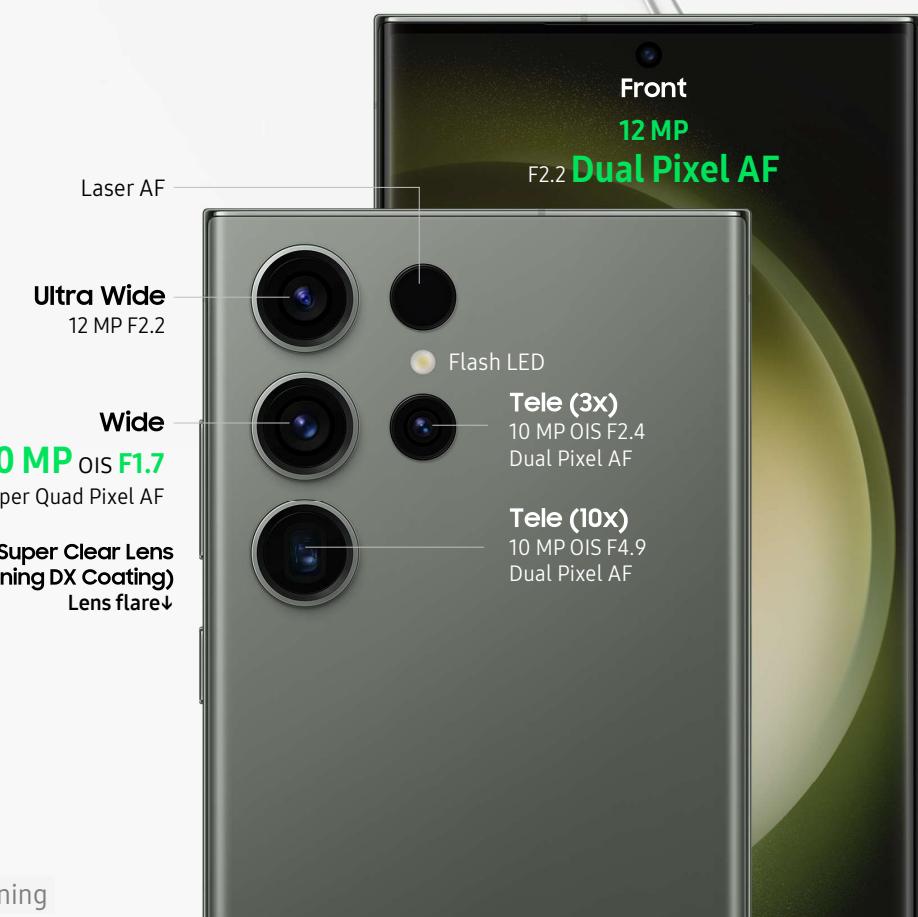
200 MP Ultra-fine precision

Up to 16x resolution, for extraordinary detail every single time



CAMERA OVERVIEW

S23 Ultra



S23 | S23+



CXP 1.

CXP 2. UNRIValed NIGHTOGRAPHY

CXP 3. FOUNDATION

1. Night Photos

Pictures with more beauty, even under low illumination at night

01 Night selfies



New 12 MP Camera

Crisp & clear
night selfies

AI Object-aware Engine

Authentic
colors and textures

02 Night portraits



Dual Pixel AF

Precise & fast
focusing

AI Stereo Depth

Stunning
bokeh effects



2. Night Videos

Even more sensational videos – especially in low-light situations

01 Tack sharp video



Enhanced sharpness
with reduced noise

AI Object-aware engine (front)

Compatibility
3rd party app
support

Instagram Snapchat TikTok



02 Improved image stabilization



Adaptive VDIS
Less blur in various
movements/brightness



2x wider OIS
Enhanced hand-shake
compensation



3. Backlit Photos with Rich Details

50 MP photography that captures incredible details in any scene

Super HDR

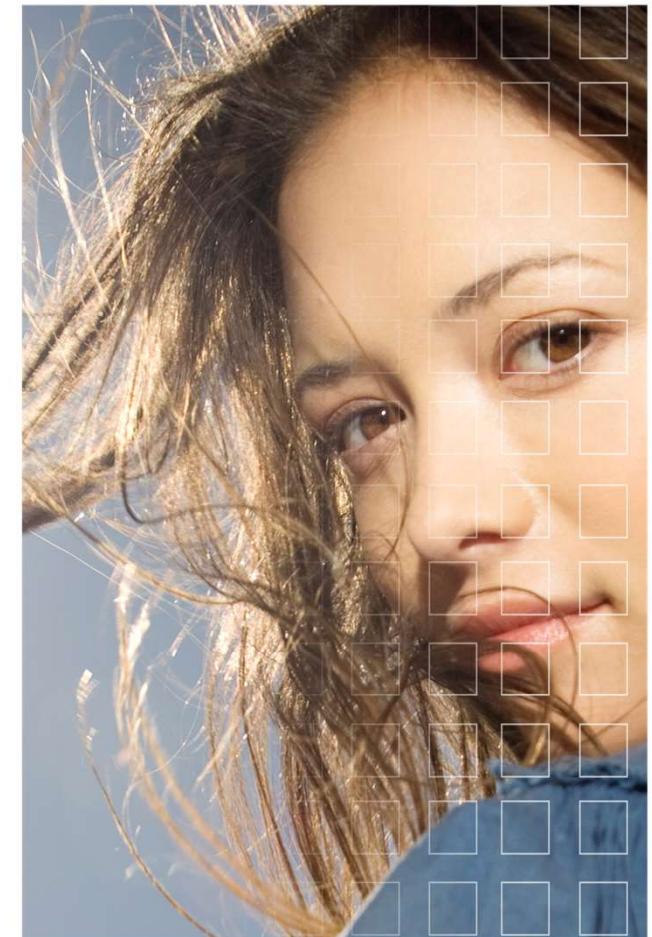
4x wider dynamic range
for 50MP photos

50MP for S23/S23+/S23 Ultra



Detail Enhancer

Adds extra details
using AI



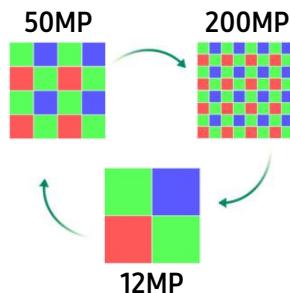
* Super HDR and Detail Enhancer automatically applied by default.

4. S23 Ultra 200 MP Ultra-fine Precision

Extraordinary 200 MP main camera brings spectacular details in every crop

NEW
200MP Camera
**Mind-blowing details
with 16x
higher-resolution**
Compared to 12MP

New Adaptive Pixel
Use the best resolution
for each surrounding



5. Greater Control for Pros

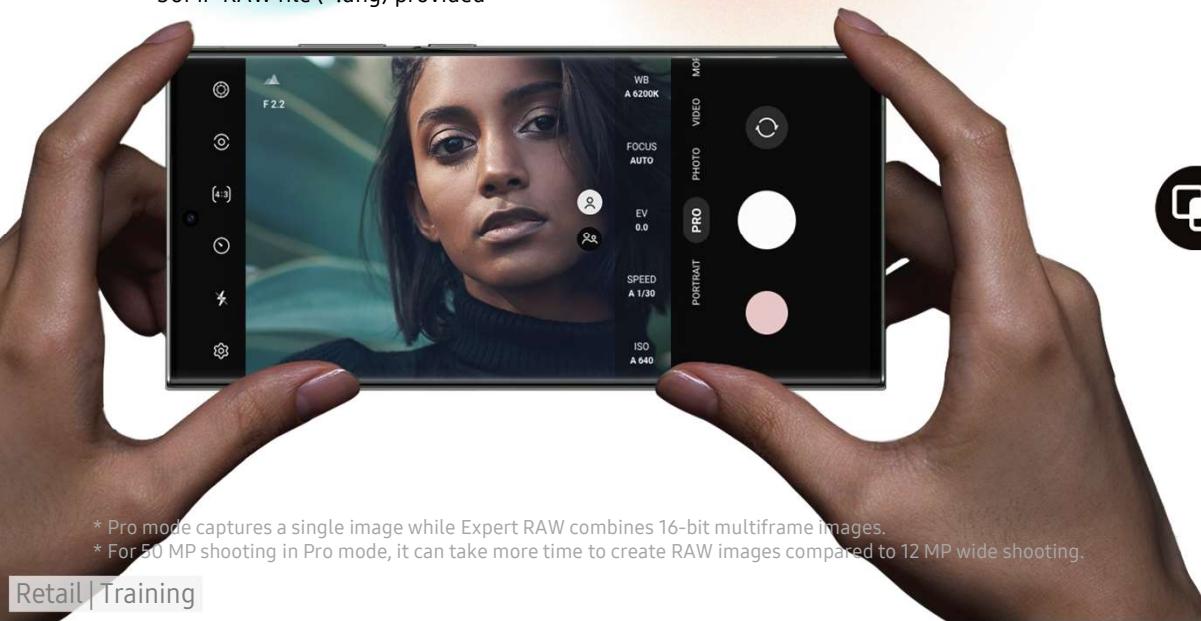
How to get the most out of your photos and videos, just like a pro

01 Pro mode & Expert RAW

 **50MP**
high-resolution
supported

50MP RAW file (*.dng) provided

 **Front camera**
supported



02 Special photo options in Expert RAW Labs



Astrophoto
Capture the night sky
without special
equipment

- Constellation guide provided
- A tripod required



Multi-exposure
Combines
various results
into a single image



* Pro mode captures a single image while Expert RAW combines 16-bit multiframe images.

* For 50 MP shooting in Pro mode, it can take more time to create RAW images compared to 12 MP wide shooting.

5. Greater Control for Pros

How to get the most out of your photos and videos, just like a pro

03 Astro Hyperlapse

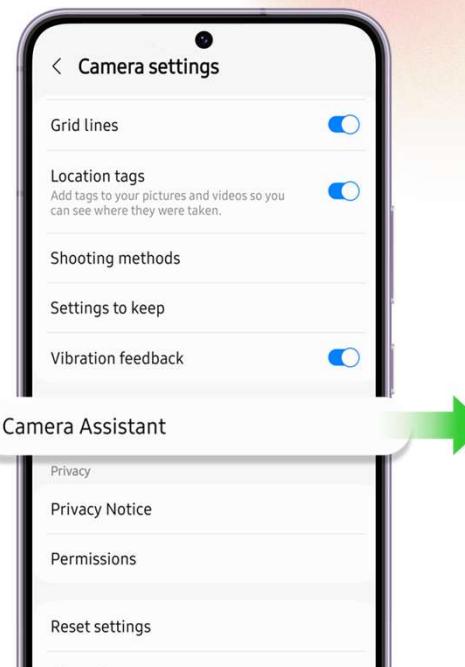


Star trail
time lapse videos

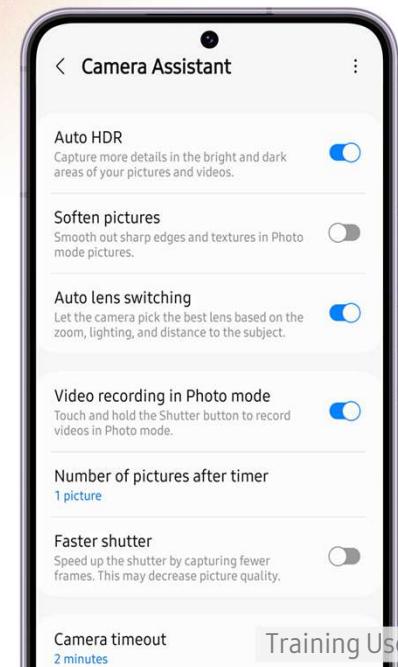
04 Camera Assistant

Additional settings
for Camera

Good Lock installation required



Camera Assistant



Training Use Only **24**

UPGRADED CAMERA SYSTEM



1. Perfected Nightography

Features

Night Selfie
AI Object-aware Engine

Night Portraits
Dual Pixel AF / AI Stereo Depth

Enhanced Noise Control
Tack Sharp Video

Improved image stabilization
Adaptive VDIS / Wider OIS

2. Incredible Details

Rich Details in Low Light
Super HDR, Detail Enhancer (50MP)

Ultra High Resolution
200MP, New Adaptive Pixel

Pro Camera

Pro mode, Expert RAW

Front / Rear

Front

Front & Rear

Front & Rear / Rear

Rear

Front & Rear

Photo / Video

Photo & Video

Photo & Video / Photo

Video

Photo

Photo

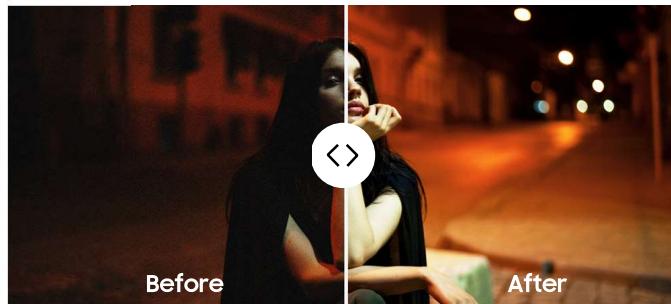
6. Intelligent Gallery

View, edit, and share your favorite moments in a new way

01 Photo Remaster

Remaster pictures

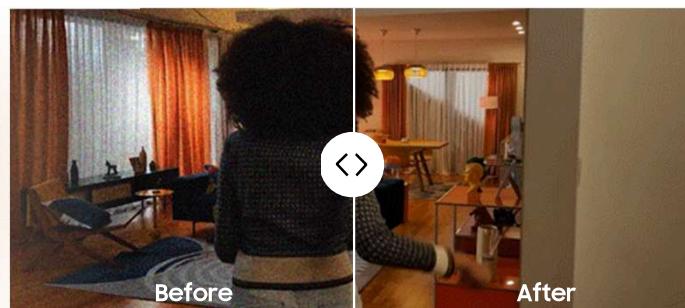
Enhanced AI to improve deteriorated elements



- Improvement of brightness, details, color issue of the face in the backlit
- Shadow/reflection eraser

NEW Remaster GIFs

Upscale resolution, noise reduction



02 All new 'Story'

NEW

Immersive full-screen view

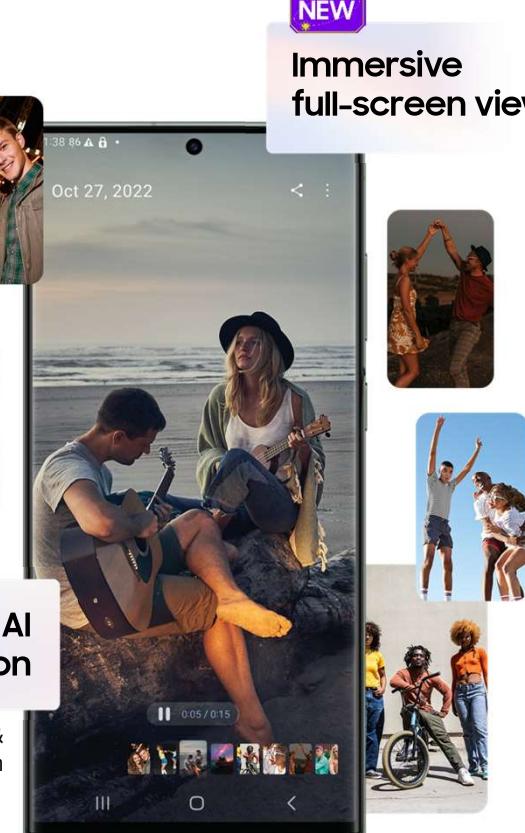


Oct 27, 2022



NEW Personalized AI Curation

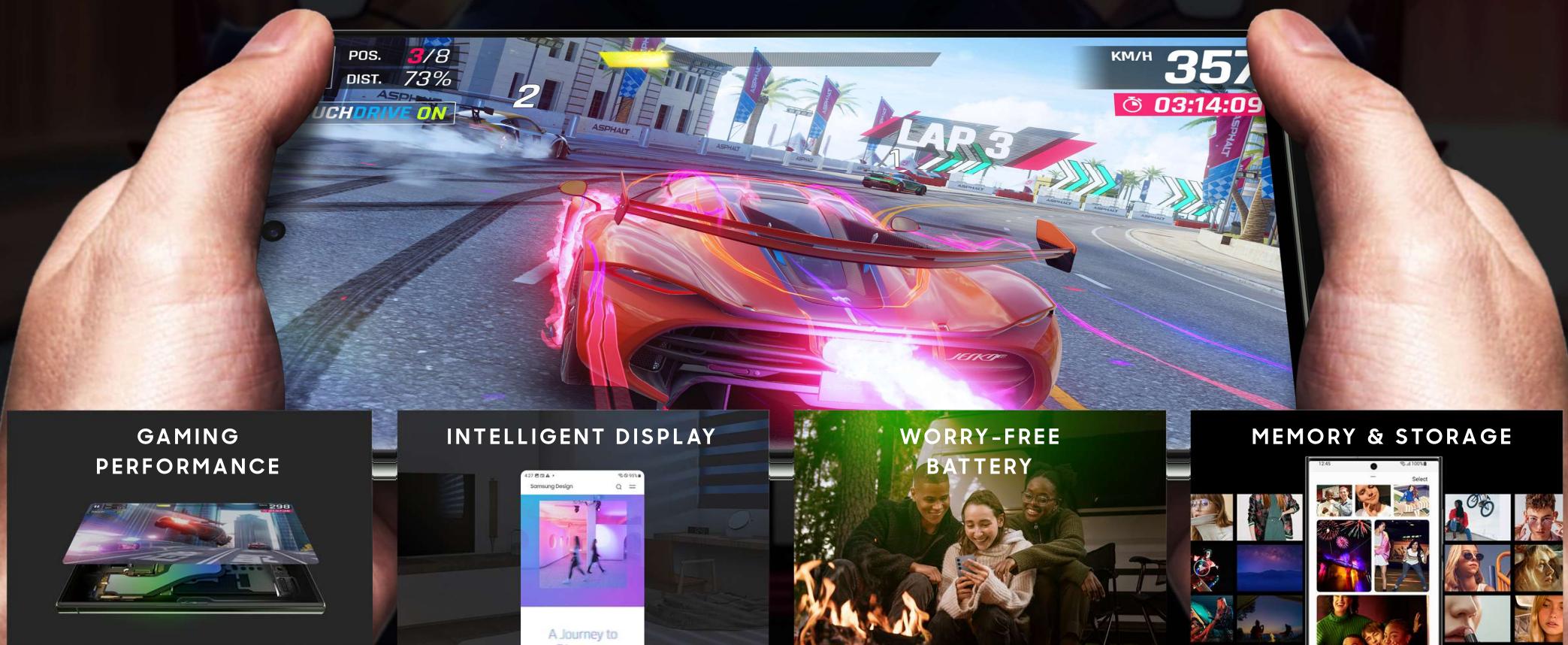
User preferred content & beloved person



CXP 3

ULTIMATE GAMING

The ultimate performance and power behind it all



1. Gaming Performance

Next-level gaming for everyone, from casual to heavy gamers

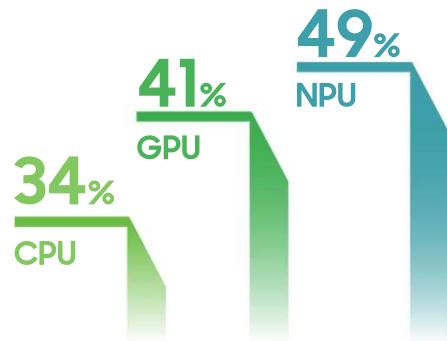
01 Faster & smoother gaming



Snapdragon 8 Gen 2 for Galaxy

vs. Snapdragon® 8 Gen 1 (S22)

More powerful performance



Dynamic AMOLED 2X

Immersive gaming & viewing



Longer-lasting battery

The power to game for hours and hours

Up to 2.7x larger cooling system
with a vapor chamber

(S23 1.3x (vs GR sheet), S23+ 2.7x, S23 Ultra 2.1x)



Casual games

Low power consumption



Advanced power management



2. Intelligent Display

Enhanced viewing experience in various lighting conditions

01 Adaptive "Vision Booster"

S22

Activated only under direct sunlight → **NEW**

Phased activation for various ambient lights (3 phases)

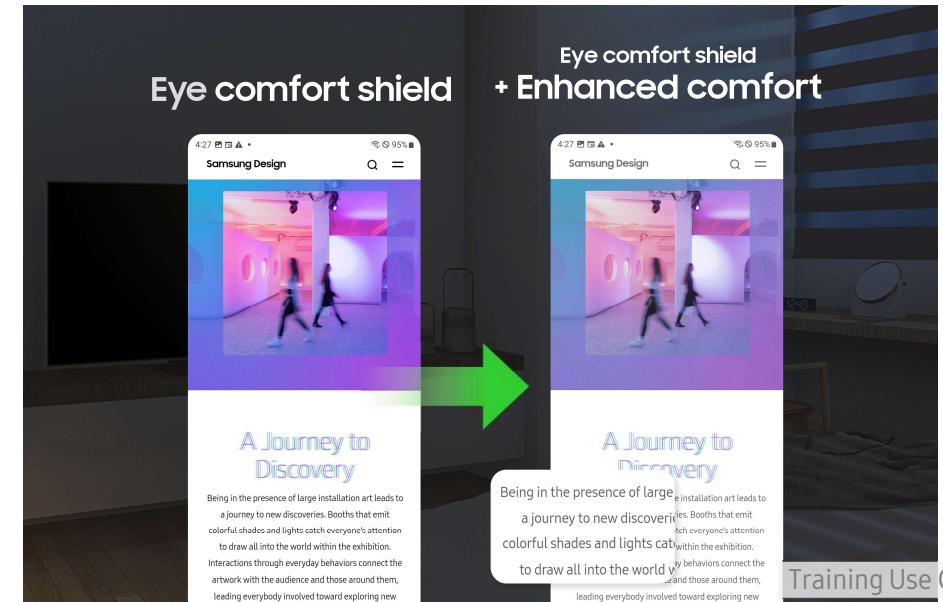
*Not activated when Eye comfort shield is active.

Ambient Light	Building/tree shadow	Cloudy daylight	Direct sunlight		
Vision Booster					
Brightness	Level 1	Level 2	Level 3		
Max	500	500	500		
HBM	1200	1200	1200		
S22 Ultra	S23 Ultra	S22+	S23+	S22	S23

02 Enhanced Comfort

Eye comfort shield
Blue light control, warmer colors

NEW
Enhanced comfort
Adjusts contrast ratio & color gamut with gray fonts



3. Worry-free Battery

A battery designed to last all day

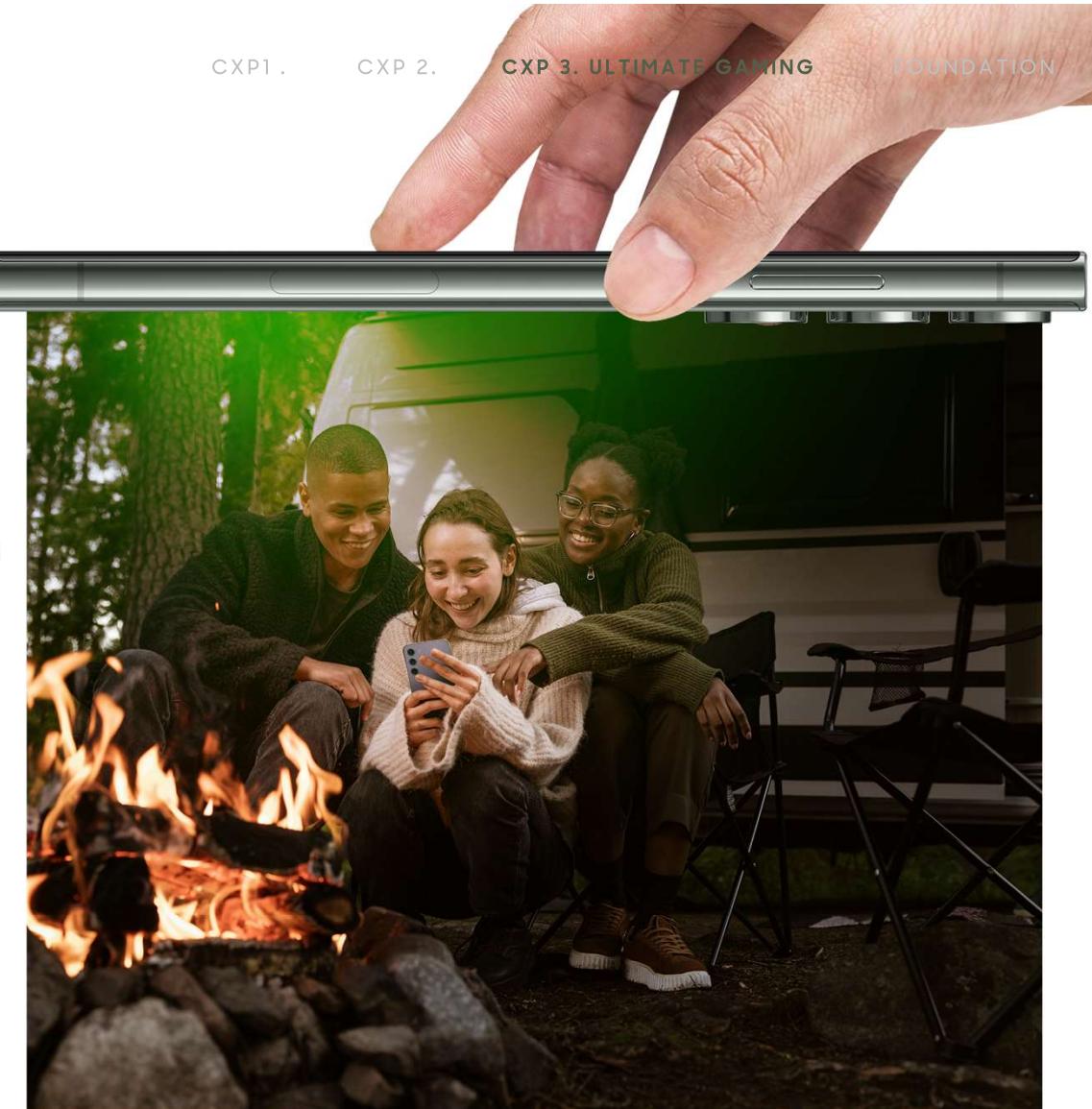
01 Longest battery life ever

Longer Usage Time

	Up to 26 hrs	Up to 27 hrs	Up to 22 hrs
Video playback	Up to 99 hrs	Up to 84 hrs	Up to 71 hrs
Music playback	S23 Ultra 5,000 mAh	S23+ 4,700 mAh	S23 3,900 mAh



* S23+: 200mAh larger (vs. S22+)
S23: 200mAh larger (vs. S22)



* Usage time tested in an internal laboratory with unused products. Usage time on the official website may vary with other test method, considering the deviation in actual user environment. Actual battery life, charging time, and usage time may vary depending on the network environment, usage patterns, amount of calls and messages, charging frequency, and other factors.

4. Memory & Storage

Sufficient room for all your data and files

01 More storage to keep all your content

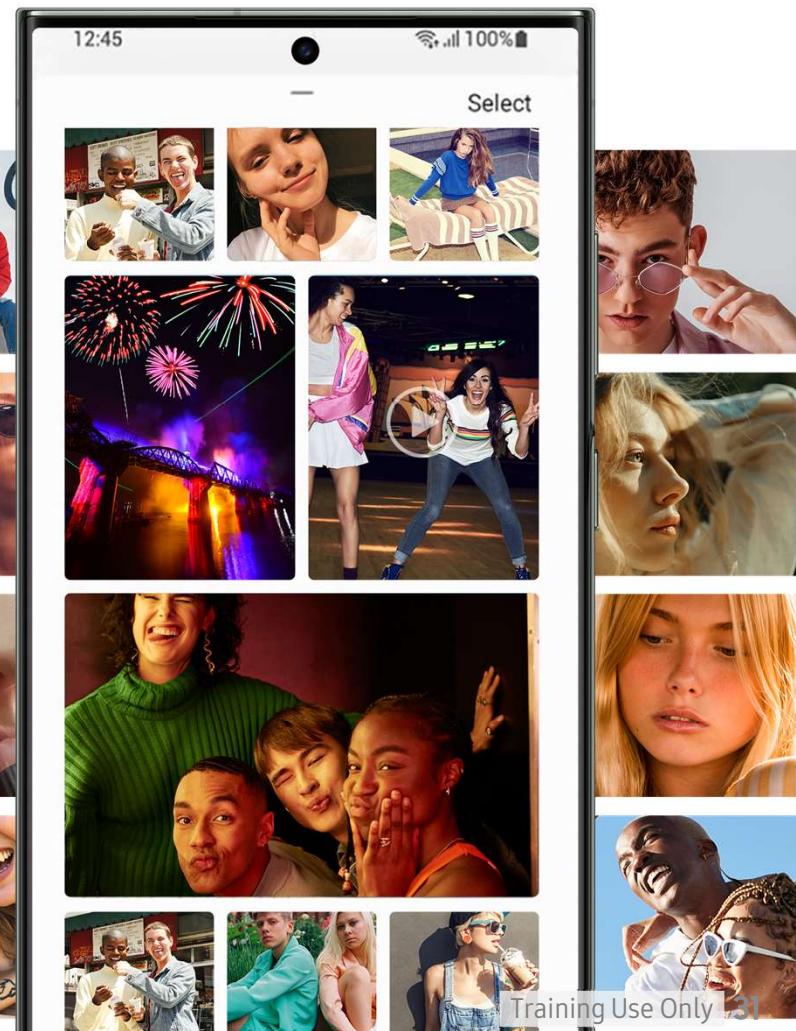
S23 Ultra

8 GB + **256 GB**
12 GB + **256 GB**
12 GB + 512 GB
12 GB + 1 TB



S23+

8 GB + **256 GB**
8 GB + 512 GB



GALAXY FOUNDATION

Undistracted, personalized, connected lifestyle enabler across the Galaxy ecosystem



CUSTOMIZATION



PRODUCTIVITY



PRIVACY & SECURITY



GALAXY ECO

Customization

Personalized
Home & Lock screen
(Image/video)



Enhanced widgets



Easier Modes & Routines



Diverse emoji
& stickers

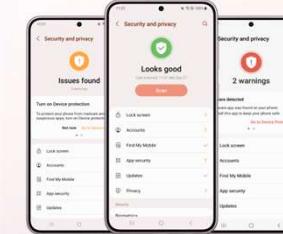


ONE UI 5!

Now, designing your personal
experience is easier than ever before,
and it's all in one place

Privacy & Security

Security and privacy
dashboard



Auto-detects
personal info
when sharing images



Productivity

Co-watching & Co-creation



Seamless phone-PC continuity



Smart, intelligent
S Pen features



1. Customization: Home & Lock Screen

Make your phone your own

01 Easy lock screen customization



02 Enhanced home screen widget



1. Customization: Lifestyle Personalization

Make things your own way

01 Diverse emojis & stickers

Making stickers in Gallery with an outline



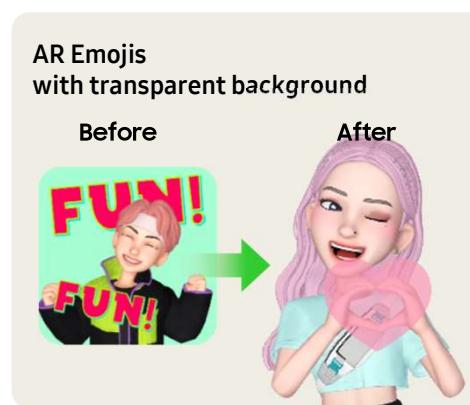
Edit GIFs in a timeline



Instantly combine 2 emojis for Emoji Pairs



AR Emojis with transparent background

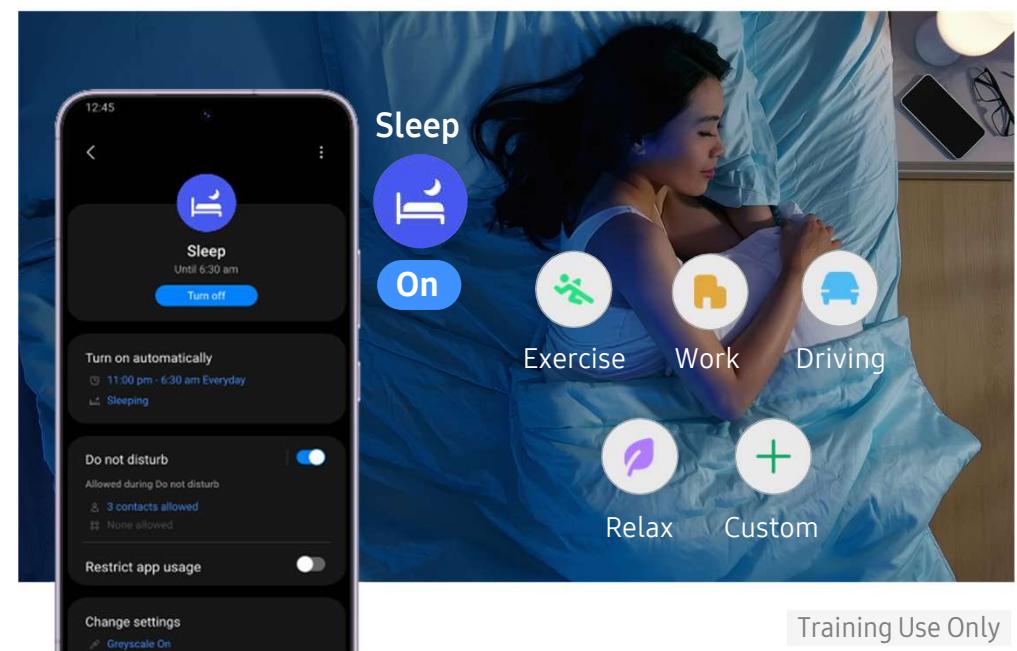


02 Easier Modes & Routines NEW

Easy, integrated automation

5 preset modes & customizable modes

* Set wallpapers for each mode @ One UI 5.1



2. Productivity: Collaborative Work & Play

More joyful ways to get in touch here and now

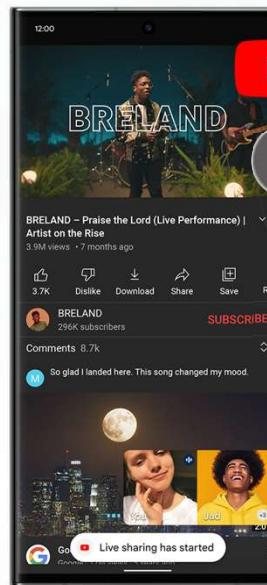
01 Co-watching

Enhanced video resolution

Minimized background noises

1.7x
group call resolution

* Google Duo (540p)
→ Google Meet (720p)



Voice Focus mode
for minimized noise



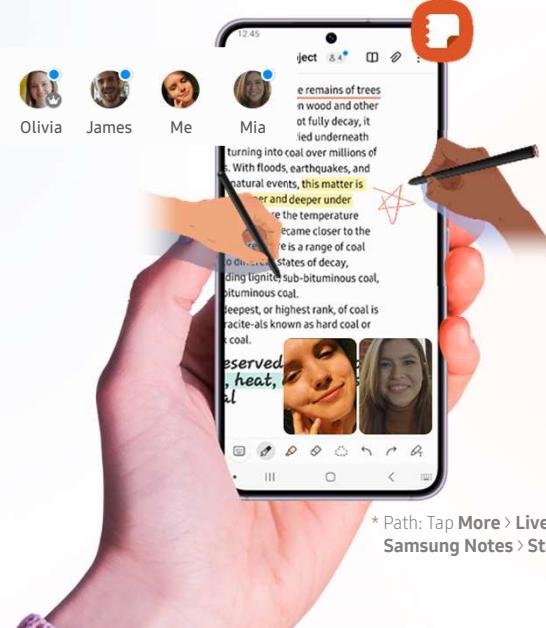
* Live Sharing supported video apps:
YouTube, Jamboard, Google Map,
Gallery, Samsung Notes, Kahoot
(after setting up Meeting)

02 Co-editing

Edit Samsung Notes
together in real-time

Editing available during
Google Meet video calls

Up to XX participants (TBD)



* Path: Tap More > Live Sharing >
Samsung Notes > Start Now.

2. Productivity: Phone-PC Continuity

Continue what you're doing on your phone with your PC

01 Link to windows



Recent websites
Continue 3 recent apps + (NEW) 3 recent websites from phone to PC

Audio streaming
Listen to sound either on your phone or PC & control the volume on your PC

Instant hotspot
Without touching your phone, you can connect your PC to your mobile network
* Auto-activated based on connection history

02 Multi control

Available on Galaxy Book only

Control multiple devices with one mouse/keyboard

Up to 3 devices. Available via mobile phone, PC, and tablet (After March '23)



* Automatically connected with nearby Galaxy devices logged in to the same Samsung account.

2. Productivity: Phone-PC Continuity

Professional shooting and editing in a flash

01 Auto file share (Expert RAW) NEW

Available on Galaxy Book only

Instantly share RAW images to your PC for professional editing

* Expert RAW app > Settings > Auto share to PC or tablet (on/off)



* Required to activate settings in the Expert RAW app.

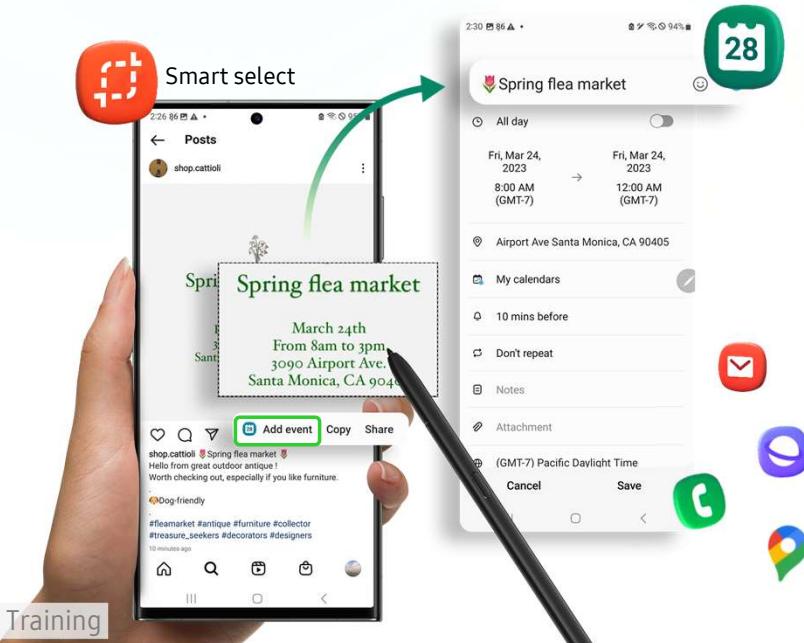
2. Productivity: Intelligent S Pen Features

Built-in S Pen, the perfect tool for productivity

01 Text Extraction with S Pen

Suggest next actions through AI by analyzing captured image

* Info scan via AI : date, time, address, phone number, email and URL
 * Supported languages (10): Korean, English, Spanish, French, German, Italian, Portuguese, Chinese, Japanese, Ukraine



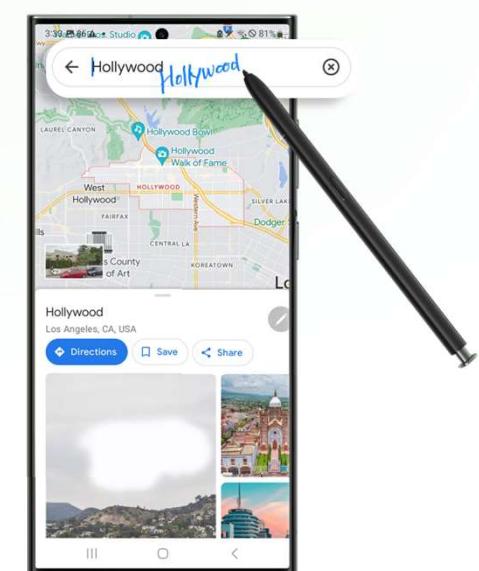
02 S Pen to text

Handwriting to text conversion



Now available for Google apps

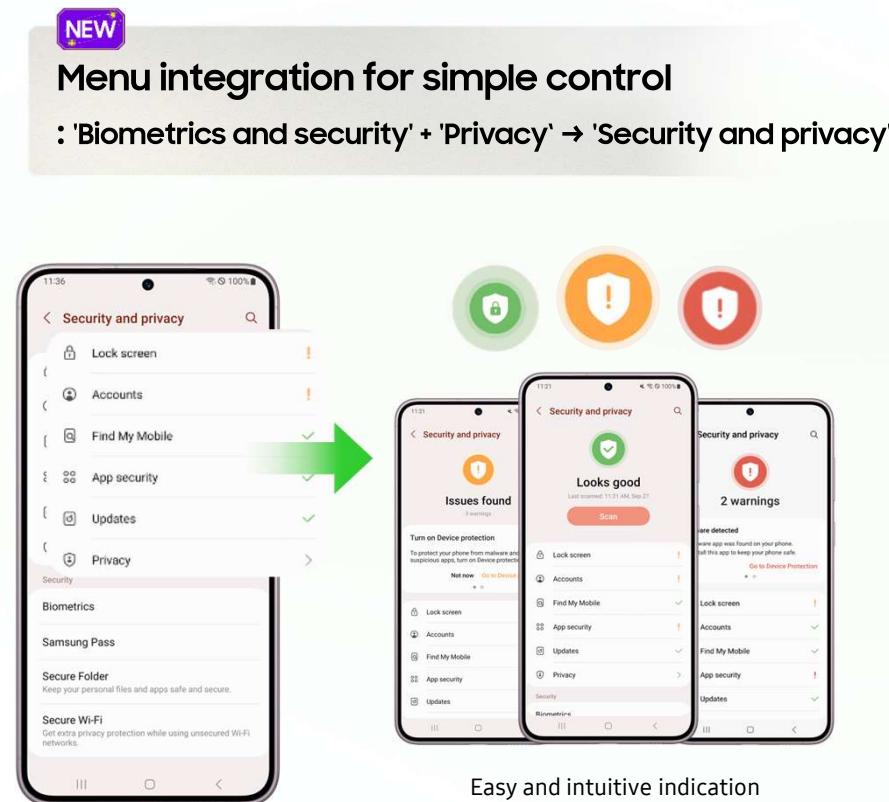
In all text input areas in Google, Chrome, Message, Maps, etc. (Webview-supported apps)



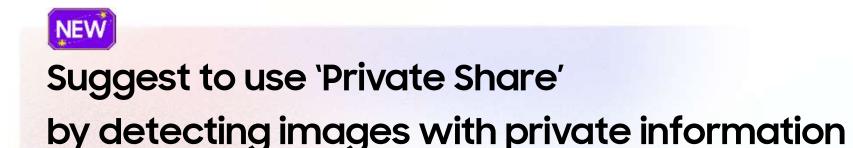
3. Privacy & Security

Your privacy. Secured.

01 Security and privacy dashboard

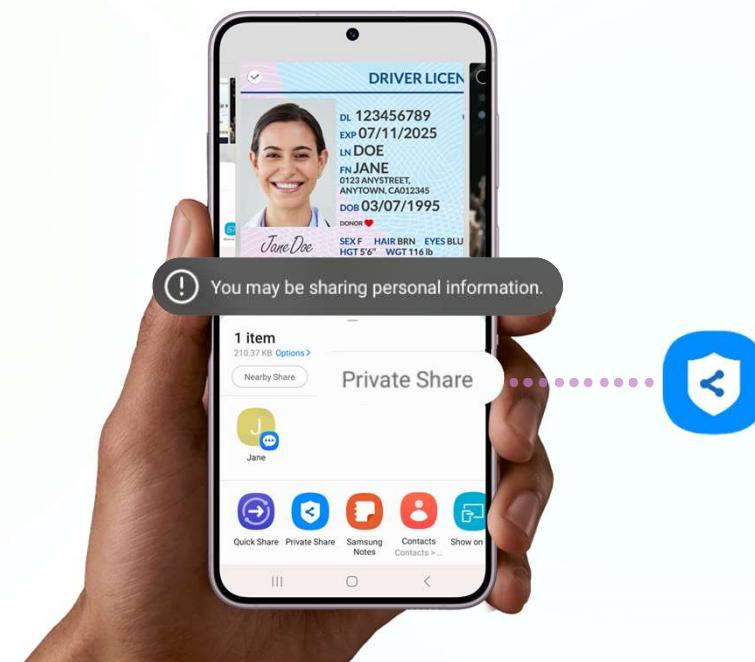


02 Photo analyzer for private info



Credit card, IDs, etc.

* Only active when the default language is Korean/English (US)



CXP1.

CXP 2.

CXP 3.

FOUNDATION

4. Galaxy Eco

Experience the open possibilities across the Galaxy's expanding ecosystem

Galaxy Tab series
Boundless & expansive experience



Accessories
Customizable & functional items



Watch 5
Healthy & stylish life



Buds2 Pro
Smart & clear audio to get closer together



Galaxy Book & PC
Simple & easy continuity



TV
Big screen for more fun and pleasure



SmartThings
Control & manage everything you have



GALAXY COMPARISON (S23 vs N-1~4)

	S23	S22	S21	S20	S10
Camera (wide)	Higher Resolution Ultra Base/Plus 200MP 50MP	Ultra Base/Plus 108MP 50MP	Ultra Base/Plus 108MP 12MP	Ultra Base/Plus 108MP 12MP	Plus Base/e 12MP 12MP
Performance	Latest Chipset 8 Gen 2 for Galaxy (4nm)	8 Gen 1 (4nm)	888 (5nm)	865 (7nm)	855 (7nm)
Display	Intelligent Display Vision Booster (adaptive) Ultra 1~120Hz	Vision Booster (On/Off) Ultra 1~120Hz	N/A	N/A	N/A
Battery(mAh)/ Thickness(mm)	Ultra Plus Base 5000 4700 3900 8.9 7.6 7.6	Ultra Plus Base 5000 4500 3700 8.9 7.6 7.6	Ultra Plus Base 5000 4800 3700 8.9 7.8 7.6	Ultra Plus Base 5000 4500 4000 8.8 7.8 7.9	Plus Base e 5000 4500 4000 7.8 7.8 7.9

APPENDIX

WHY GALAXY S23 SERIES VS IPHONE 14 SERIES

EPIC CAMERA

- Higher Resolution
- Higher Zoom
- 8K Video Recording



VS



S23 Ultra

200MP
10x (Optical)
8K Video

iP Pro Max/Pro

48MP
3x (Optical)
4K Video

S23 | S23+

50MP
3x (Optical)
8K Video

iP Plus/Base

12MP
N/A
4K Video

IMMERSIVE DISPLAY

- Distraction-free
- Superior Outdoor Visibility
- Smoother & Responsive



VS



S23 Ultra

6.8" (Notch-less)
Vision Booster
1~120Hz

iP Pro Max/Pro

6.7"/6.1" (Pill-shaped)
N/A
10~120Hz

S23 | S23+

6.6"/6.1" (Notch-less)
Vision Booster
48~120Hz

iP Plus/Base

6.7"/6.1" (Notch)
N/A
60Hz

LIFE-ENHANCING FEATURES

S23 Series

S23 Ultra
Creative S Pen

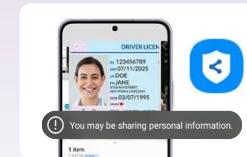


VS

iP 14 Series

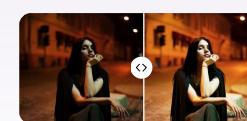
N/A

Private Share



N/A

Photo/GIF Remaster



N/A

Video wallpapers



N/A

END OF DOCUMENT



APPENDIX

GALAXY COMPARISON

	S23 Ultra	S23+	S23	S22 Ultra	S22+	S22	Note20 Ultra	Note20
Display	6.8" Dynamic AMOLED 2X QHD+ (3088 x 1440) 500 ppi, 1-120Hz S Pen support	6.6" Dynamic AMOLED 2X FHD+ (2340 x 1080) 393 ppi, 48-120Hz	6.1" Dynamic AMOLED 2X FHD+ (2340 x 1080) 425 ppi, 48-120Hz	6.8" Dynamic AMOLED 2X QHD+ (3088 x 1440) 500 ppi, 1-120Hz S Pen support	6.6" Dynamic AMOLED 2X FHD+ (2340 x 1080) 393 ppi, 48-120Hz	6.1" Dynamic AMOLED 2X FHD+ (2340 x 1080) 425 ppi, 48-120Hz	6.9" Dynamic AMOLED 2X QHD+ (3088 x 1440) 496 ppi, 60-120Hz S Pen support	6.7" Super AMOLED Plus FHD+ (2400 x 1080) 393 ppi, 60Hz S Pen support
Rear Camera	Ultra Wide	12 MP F2.2 FOV 120°, 1/2.55", 1.4µm	12 MP F2.2 FOV 120°, 1/2.55", 1.4µm	12 MP F2.2 FOV 120°, 1/2.55", 1.4µm	12 MP F2.2 FOV 120°, 1/2.55", 1.4µm	12 MP F2.2 FOV 120°, 1/2.55", 1.4µm	12 MP F2.2 1/2.55", 1.4µm	12 MP F2.2 1/2.55", 1.4µm
	Wide	200 MP OIS F1.7 Super Quad Pixel AF FOV 85°, 1/1.33", 0.6 µm Adaptive Pixel	50 MP OIS F1.8 Dual Pixel AF FOV 85°, 1/1.56", 1.0µm Adaptive Pixel	50 MP OIS F1.8 PDAF FOV 85°, 1/1.56", 1.0µm Adaptive Pixel	108 MP OIS F1.8 Dual Pixel AF FOV 85°, 1/1.33", 0.8µm Adaptive Pixel	50 MP OIS F1.8 Dual Pixel AF FOV 85°, 1/1.56", 1.0µm Adaptive Pixel	50 MP OIS F1.8 PDAF 1/1.33" 0.8µm	12 MP OIS F1.8 Dual Pixel AF 1/1.76", 1.8µm
	Tele	10 MP OIS F4.9 Dual Pixel AF FOV 11°, 1/3.52", 1.12µm 10x optical zoom	10 MP OIS F2.4 PDAF FOV 36°, 1/3.94", 1.0µm 3x optical zoom	10 MP OIS F2.4 PDAF FOV 36°, 1/3.94", 1.0µm 3x optical zoom	10 MP OIS F4.9 Dual Pixel AF FOV 11°, 1/3.52", 1.12µm 10x optical zoom	10 MP OIS F2.4 PDAF FOV 36°, 1/3.94", 1.0µm 3x optical zoom	12 MP OIS F3.0 PDAF 1/3.6", 1.0µm 5x optical zoom	64 MP OIS F2.0 PDAF 1/1.72", 0.8µm 3x optical zoom
	Tele2	10 MP OIS F2.4 Dual Pixel AF FOV 36°, 1/3.52", 1.12µm 3x optical zoom	-	-	10 MP OIS F2.4 Dual Pixel AF FOV 36°, 1/3.52", 1.12µm 3x optical zoom	-	-	-
Front Camera		12 MP F2.2 Dual Pixel AF FOV 80°, 1/3.2", 1.12µm	12 MP F2.2 Dual Pixel AF FOV 80°, 1/3.2", 1.12µm	12 MP F2.2 Dual Pixel AF FOV 80°, 1/3.2", 1.12µm	40 MP F2.2 PDAF FOV 80°, 1/2.8", 0.7µm	10 MP F2.2 Dual Pixel AF FOV 80°, 1/3.24", 1.22µm	10 MP F2.2 Dual Pixel AF FOV 80°, 1/3.24", 1.22µm	10 MP F2.2 Dual Pixel AF 1.22µm
Performance	Snapdragon 8 Gen 2 for Galaxy (4 nm)	Snapdragon 8 Gen 2 for Galaxy (4 nm)	Snapdragon 8 Gen 2 for Galaxy (4 nm)	Snapdragon® 8 Gen 1 / Exynos 2200 (4nm)	Snapdragon® 8 Gen 1 / Exynos 2200 (4nm)	Snapdragon® 8 Gen 1 / Exynos 2200 (4nm)	Snapdragon 865+ / Exynos 990 (7nm)	Snapdragon 865+ / Exynos 990 (7nm)
	Memory: 8/12 GB Storage: 256/512 GB, 1TB Micro SD: N/A	Memory: 8 GB Storage: 256/512 GB Micro SD: N/A	Memory: 8 GB Storage: 128/256/512 GB Micro SD: N/A	Memory: 8/12 GB Storage: 128/256/512 GB Micro SD: N/A	Memory: 8 GB Storage: 128/256 GB Micro SD: N/A	Memory: 8 GB Storage: 128/256 GB Micro SD: N/A	Memory: 8GB(LTE)/12GB(5G) Storage: 128/256/512 GB Micro SD: Up to 1 TB	Memory: 8 GB Storage: 128/256 GB Micro SD: N/A
Battery	5,000 mAh Super Fast Charging 2.0 Fast Wireless Charging 2.0 Wireless PowerShare	4,700 mAh Super Fast Charging 2.0 Fast Wireless Charging 2.0 Wireless PowerShare	3,700 mAh Super Fast Charging Fast Wireless Charging 2.0 Wireless PowerShare	5,000 mAh Super Fast Charging Fast Wireless Charging 2.0 Wireless PowerShare	4,500 mAh Super Fast Charging Fast Wireless Charging 2.0 Wireless PowerShare	3,700 mAh Super Fast Charging Fast Wireless Charging 2.0 Wireless PowerShare	4,500 mAh Super Fast Charging Fast Wireless Charging 2.0 Wireless PowerShare	4,300 mAh Super Fast Charging Fast Wireless Charging 2.0 Wireless PowerShare
Dimensions	78.1 x 163.4 x 8.9 mm, 233g (Sub6) 234g (mmWave)	76.2 x 157.8 x 7.6 mm 195g (Sub6) 196g (mmWave)	70.9 x 146.3 x 7.6 mm 168g (Sub6) 168g (mmWave)	77.9 x 163.3 x 8.9 mm, 228g (Sub6) 229g (mmWave)	75.8 x 157.4 x 7.6 mm, 195g (Sub6) 196g (mmWave)	70.6 x 146 x 7.6 mm, 167g (Sub6) 168g (mmWave)	77.2 x 164.8 x 8.1 mm, 208 g	75.2 x 161.6 x 8.3 mm, 192 g (Sub6) 194 g (mmWave)

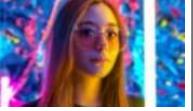
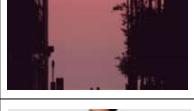
APPENDIX

SPEC TABLE

TBD

APPENDIX

IMAGE LIBRARY

Page	Thumbnail	License	Page	Thumbnail	License	Page	Thumbnail	License	Page	Thumbnail	License
7		Royalty free	15		Royalty free	20		Royalty free	24		Royalty free
10		Royalty free	16		Royalty free	20		Royalty free	24		Royalty free
11		Royalty free	17		Royalty free	20		Royalty free	24		Royalty free
11		Royalty free	18		Royalty free	21		Royalty free	24		Royalty free
11		Royalty free	18		Royalty free	21		Royalty free	25		Royalty free
11		Royalty free	18		Royalty free	22		Royalty free	27		Royalty free
13		Royalty free	18		Royalty free	23		Royalty free	29		Royalty free

APPENDIX

IMAGE LIBRARY

Page	Thumbnail	License	Page	Thumbnail	License	Page	Thumbnail	License	Page	Thumbnail	License
30		Royalty free	36		Royalty free						
30		Royalty free	39		Royalty free						
30		Royalty free									
30		Royalty free									
31		Royalty free									
32		Royalty free									
34		Royalty free									