Compare iPhone models

iPhone Xs	**iPhone Xs Max**	**iPhone XR**
Capacity[1] 64GB 256GB 512GB	Capacity[1] 64GB 256GB 512GB	Capacity[1] 64GB 128GB 256GB
Colour	Colour	Colour (PRODUCT)RED
5.8″ Super Retina HD display[2]	**6.5″** Super Retina HD display[2]	**6.1″** Liquid Retina HD display[2]
Face ID	Face ID	Face ID
A12 A12 Bionic chip with next-generation Neural Engine	A12 A12 Bionic chip with next-generation Neural Engine	A12 A12 Bionic chip with next-generation Neural Engine
2m Water resistant to a depth of 2 metres for up to 30 minutes[4]	**2m** Water resistant to a depth of 2 metres for up to 30 minutes[4]	**1m** Water resistant to a depth of 1 metre for up to 30 minutes[4]
Wireless charging (works with Qi chargers[5])	Wireless charging (works with Qi chargers[5])	Wireless charging (works with Qi chargers[5])

Display

iPhone Xs	iPhone Xs Max	iPhone XR
Super Retina HD display	**Super Retina HD display**	**Liquid Retina HD display**
5.8-inch (diagonal) all-screen OLED Multi-Touch display[2]	6.5-inch (diagonal) all-screen OLED Multi-Touch display[2]	6.1-inch (diagonal) all-screen LCD Multi-Touch display with IPS technology[2]
HDR display	HDR display	—
2436x1125-pixel resolution at 458 ppi	2688x1242-pixel resolution at 458 ppi	1792x828-pixel resolution at 326 ppi
1,000,000:1 contrast ratio (typical)	1,000,000:1 contrast ratio (typical)	1400:1 contrast ratio (typical)
True Tone display	True Tone display	True Tone display
Wide colour display (P3)	Wide colour display (P3)	Wide colour display (P3)
3D Touch	3D Touch	—
625 cd/m² max brightness (typical)	625 cd/m² max brightness (typical)	625 cd/m² max brightness (typical)

Size and Weight[6]

iPhone Xs	iPhone Xs Max	iPhone XR
Height: 143.6 mm (5.65 inches)	Height 157.5 mm (6.20 inches)	Height 150.9 mm (5.94 inches)
Width: 70.9 mm (2.79 inches)	Width 77.4 mm (3.05 inches)	Width 75.7 mm (2.98 inches)
Depth: 7.7 mm (0.30 inches)	Depth: 7.7 mm (0.30 inches)	Depth 8.3 mm (0.33 inches)
Weight 177 grams (6.24 ounces)	Weight 208 grams (7.34 ounces)	Weight 194 grams (6.84 ounces)

Camera

iPhone Xs	iPhone Xs Max	iPhone XR
Dual 12MP wide-angle and telephoto cameras	Dual 12MP wide-angle and telephoto cameras	12MP camera
Wide-angle: ƒ/1.8 aperture Telephoto: ƒ/2.4 aperture	Wide-angle: ƒ/1.8 aperture Telephoto: ƒ/2.4 aperture	ƒ/1.8 aperture
Dual optical image stabilisation	Dual optical image stabilisation	Optical image stabilisation
2x optical zoom; digital zoom up to 10x	2x optical zoom; digital zoom up to 10x	Digital zoom up to 5x
Wide colour capture for photos and Live Photos	Wide colour capture for photos and Live Photos	Wide colour capture for photos and Live Photos
Quad-LED True Tone flash with Slow Sync	Quad-LED True Tone flash with Slow Sync	Quad-LED True Tone flash with Slow Sync
Portrait mode with enhanced bokeh and Depth Control	Portrait mode with enhanced bokeh and Depth Control	Portrait mode with enhanced bokeh and Depth Control
Portrait Lighting with five effects (Natural, Studio, Contour, Stage, Stage Mono)	Portrait Lighting with five effects (Natural, Studio, Contour, Stage, Stage Mono)	Portrait Lighting with three effects (Natural, Studio, Contour)
Smart HDR for photos	Smart HDR for photos	Smart HDR for photos

Video Recording

iPhone Xs	iPhone Xs Max	iPhone XR
4K video recording at 24 fps, 30 fps or 60 fps	4K video recording at 24 fps, 30 fps or 60 fps	4K video recording at 24 fps, 30 fps or 60 fps
1080p HD video recording at 30 fps or 60 fps	1080p HD video recording at 30 fps or 60 fps	1080p HD video recording at 30 fps or 60 fps
Extended dynamic range for video up to 30 fps	Extended dynamic range for video up to 30 fps	Extended dynamic range for video up to 30 fps
Optical image stabilisation for video	Optical image stabilisation for video	Optical image stabilisation for video
2x optical zoom; digital zoom up to 6x	2x optical zoom; digital zoom up to 6x	Digital zoom up to 3x
Slow-motion video support for 1080p at 120 fps or 240 fps	Slow-motion video support for 1080p at 120 fps or 240 fps	Slow-motion video support for 1080p at 120 fps or 240 fps
Time-lapse video with stabilisation	Time-lapse video with stabilisation	Time-lapse video with stabilisation
Stereo recording	Stereo recording	Stereo recording

Front Camera

iPhone Xs	iPhone Xs Max	iPhone XR
TrueDepth camera	TrueDepth camera	TrueDepth camera
7MP photos	7MP photos	7MP photos
ƒ/2.2 aperture	ƒ/2.2 aperture	ƒ/2.2 aperture
Retina Flash	Retina Flash	Retina Flash
Wide colour capture for photos and Live Photos	Wide colour capture for photos and Live Photos	Wide colour capture for photos and Live Photos
Smart HDR for photos	Smart HDR for photos	Smart HDR for photos
Portrait mode with enhanced bokeh and Depth Control	Portrait mode with enhanced bokeh and Depth Control	Portrait mode with enhanced bokeh and Depth Control
Portrait Lighting with five effects (Natural, Studio, Contour, Stage, Stage Mono)	Portrait Lighting with five effects (Natural, Studio, Contour, Stage, Stage Mono)	Portrait Lighting with five effects (Natural, Studio, Contour, Stage, Stage Mono)
Extended dynamic range for video at 30 fps	Extended dynamic range for video at 30 fps	Extended dynamic range for video at 30 fps
Cinematic video stabilisation (1080p and 720p)	Cinematic video stabilisation (1080p and 720p)	Cinematic video stabilisation (1080p and 720p)
1080p HD video recording at 30 fps or 60 fps	1080p HD video recording at 30 fps or 60 fps	1080p HD video recording at 30 fps or 60 fps
Animoji and Memoji	Animoji and Memoji	Animoji and Memoji

Cellular and Wireless

iPhone Xs	iPhone Xs Max	iPhone XR
GSM/EDGE	GSM/EDGE	GSM/EDGE
UMTS/HSPA+	UMTS/HSPA+	UMTS/HSPA+
DC-HSDPA	DC-HSDPA	DC-HSDPA
CDMA EV-DO Rev. A (some models)	CDMA EV-DO Rev. A (some models)	CDMA EV-DO Rev. A (some models)
Gigabit-class LTE[7]	Gigabit-class LTE[7]	4G LTE Advanced[7]
VoLTE[7]	VoLTE[7]	VoLTE[7]

Power and Battery[8]

iPhone Xs	iPhone Xs Max	iPhone XR
Lasts up to 30 minutes longer than iPhone X	Lasts up to 1.5 hours longer than iPhone X	Lasts up to 1.5 hours longer than iPhone 8 Plus
Built-in rechargeable lithium-ion battery	Built-in rechargeable lithium-ion battery	Built-in rechargeable lithium-ion battery
Wireless charging (works with Qi chargers[5])	Wireless charging (works with Qi chargers[5])	Wireless charging (works with Qi chargers[5])
Charging via USB to computer system or power adapter	Charging via USB to computer system or power adapter	Charging via USB to computer system or power adapter
Talk time (wireless) Up to 20 hours	**Talk time (wireless)** Up to 25 hours	**Talk time (wireless)** Up to 25 hours
Internet use Up to 12 hours	**Internet use** Up to 13 hours	**Internet use** Up to 15 hours
Video playback (wireless) Up to 14 hours	**Video playback (wireless)** Up to 15 hours	**Video playback (wireless)** Up to 16 hours
Audio playback (wireless) Up to 60 hours	**Audio playback (wireless)** Up to 65 hours	**Audio playback (wireless)** Up to 65 hours
Fast-charge capable Up to 50% charge in 30 minutes[9]	**Fast-charge capable** Up to 50% charge in 30 minutes[9]	**Fast-charge capable** Up to 50% charge in 30 minutes[9]

SIM Card

iPhone Xs	iPhone Xs Max	iPhone XR
Dual SIM (nano-SIM and eSIM[11])	Dual SIM (nano-SIM and eSIM[11])	Dual SIM (nano-SIM and eSIM[11])
Not compatible with existing micro-SIM cards	Not compatible with existing micro-SIM cards	Not compatible with existing micro-SIM cards

1. Available space is less and varies due to many factors. A standard configuration uses approximately 10GB to 12GB of space (including iOS and pre-installed apps) depending on the model and settings. Pre-installed apps use about 4GB, and you can delete these apps and restore them.
2. The display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as a standard rectangular shape, the screen is 5.85 inches (iPhone XS), 6.46 inches (iPhone XS Max), 6.06 inches (iPhone XR) or 5.85 inches (iPhone X) diagonally. Actual viewable area is less.
3. Display size is measured diagonally.
4. iPhone 7, iPhone 7 Plus, iPhone 8, iPhone 8 Plus, iPhone X, iPhone XS, iPhone XS Max and iPhone XR are splash, water and dust resistant, and were tested under controlled laboratory conditions; iPhone XS and iPhone XS Max have a rating of IP68 under IEC standard 60529 (maximum depth of 2 metres up to 30 minutes); and iPhone 7, iPhone 7 Plus, iPhone 8, iPhone 8 Plus, iPhone X and iPhone XR have a rating of IP67 under IEC standard 60529 (maximum depth of 1 metre up to 30 minutes). Splash, water and dust resistance are not permanent conditions, and resistance might decrease as a result of normal wear. Do not attempt to charge a wet iPhone; refer to the user guide for cleaning and drying instructions. Liquid damage is not covered under warranty.
5. Qi wireless chargers are sold separately.
6. Size and weight vary by configuration and manufacturing process.
7. Data plan is required. Gigabit-class LTE, 4G LTE Advanced, 4G LTE and VoLTE are available in selected markets and through selected carriers; please check with your carrier to see if these are available where you live. Speeds are based on theoretical throughput and vary based on site conditions and carrier. For details on LTE support, contact your carrier and see www.apple.com/in/iphone/LTE.
8. All battery claims depend on network configuration and many other factors; actual results will vary. Battery has limited recharge cycles and may eventually need to be replaced by an Apple service provider. Battery life and charge cycles vary by use and settings. See www.apple.com/in/batteries and www.apple.com/in/iphone/battery.html for more information.
9. Testing conducted by Apple in August 2018 using pre-production iPhone XS, iPhone XS Max and iPhone XR units and software and accessory Apple USB-C Power Adapters (30W Model A1882 and 87W Model A1719). Fast-charge testing conducted with drained iPhone units. Charge time varies with environmental factors; actual results will vary.
10. Testing conducted by Apple in August 2017 using pre-production iPhone 8, iPhone 8 Plus and iPhone X units and software and accessory Apple USB-C Power Adapters (29W Model A1540, 61W Model A1718 and 87W Model A1719). Fast-charge testing conducted with drained iPhone units. Charge time varies with environmental factors; actual results will vary.
11. eSIM will be available later this year through a software update. Use of eSIM requires a wireless service plan (which may include restrictions on switching service providers and roaming, even after contract expiration). Not all carriers support eSIM. Use of eSIM in iPhone may be disabled when purchased from some carriers. See your carrier for details. To learn more, visit support.apple.com/en-in/HT209044.

A portion of the proceeds from every (PRODUCT)RED™ purchase will go to the Global Fund to fight AIDS in Africa.