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## Android Smartphones that are compatible with the Augmented Reality Mobile Game Application

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## Revision History

Version	Date	Description	Action	Pages
1.0	15/10/2019	Creation of the document	C	17

(\*) Action: C = Creation, I = Insert, U = Update, R = Replace, D = Delete

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## Executive Summary

The technology used for the development of the AR mobile game application is [ARCore](#). However, not all devices can support AR technologies. Some common requirements though for ARCore compatibility are:

- Android 7.0 or later (some models require newer versions as noted below)
- A device that originally shipped with the Google Play Store
- Internet access, in order to install or update [Google Play Services for AR](#)



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## List of devices compatible with ARCore

The following table summarizes supported models by manufacturer, noting any model-specific restrictions <sup>1</sup>:

Manufacturer	Model	Notes
Asus	ROG Phone	
Asus	ROG Phone II	
Asus	Zenfone 6	
Asus	Zenfone AR	
Asus	Zenfone ARES	
General Mobile	GM 9 Plus	
Google	Nexus 5X	Requires Android 8.0 or later
Google	Nexus 6P	Requires Android 8.0 or later
Google	Pixel	
Google	Pixel XL	
Google	Pixel 2	Supports 60 fps camera capture frame rate on the rear-facing camera
Google	Pixel 2 XL	Supports 60 fps camera capture frame rate on the rear-facing camera

<sup>1</sup> [https://developers.google.com/ar/discover/supported-devices#android\\_play](https://developers.google.com/ar/discover/supported-devices#android_play)

Manufacturer	Model	Notes
Google	Pixel 3	Supports 60 fps camera capture frame rate on the rear-facing camera When 60 fps camera capture mode is active, the camera uses fixed focus
Google	Pixel 3 XL	Supports 60 fps camera capture frame rate on the rear-facing camera When 60 fps camera capture mode is active, the camera uses fixed focus
Google	Pixel 3a	
Google	Pixel 3a XL	
Google	Pixel 4	
Google	Pixel 4 XL	
HMD Global	Nokia 6 (2018)	Also known as Nokia 6.1
HMD Global	Nokia 6.1 Plus	
HMD Global	Nokia 7 Plus	
HMD Global	Nokia 7.1	
HMD Global	Nokia 8	Requires Android 8.0 or later
HMD Global	Nokia 8 Sirocco	
HMD Global	Nokia 8.1	
Huawei	Honor 8X	

Manufacturer	Model	Notes
Huawei	Honor 10	
Huawei	Honor View 10 Lite	
Huawei	Honor V20	
Huawei	Mate 20 Lite	
Huawei	Mate 20	
Huawei	Mate 20 Pro	
Huawei	Mate 20 X	
Huawei	Nova 3	
Huawei	Nova 3i	
Huawei	Nova 4	
Huawei	P20	
Huawei	P20 Pro	
Huawei	P30	
Huawei	P30 Pro	
Huawei	Porsche Design Mate RS	

Manufacturer	Model	Notes
Huawei	Porsche Design Mate 20 RS	
Huawei	Y9 2019	
Infinix Mobile	Note 6	
LG	G6	Requires Android 8.0 or later
LG	G7 Fit	
LG	G7 One	
LG	G7 ThinQ	ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	G8 ThinQ	
LG	G8S ThinQ	
LG	G8X ThinQ	
LG	Q6	
LG	Q70	
LG	Q8	
LG	style2	ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	Stylo 5	



Manufacturer	Model	Notes
LG	V30	Requires Android 8.0 or later ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	V30+	Requires Android 8.0 or later ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	V30+ JOJO	Requires Android 8.0 or later ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	LG Signature Edition 2017	Requires Android 8.0 or later ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	V35 ThinQ	ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	LG Signature Edition 2018	ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	V40 ThinQ	ARCore uses the wide angle fixed focus rear facing camera for AR tracking
LG	V50 ThinQ	
Motorola	moto g <sup>5s</sup> plus	
Motorola	moto g <sup>6</sup>	
Motorola	moto g <sup>6</sup> plus	

Manufacturer	Model	Notes
Motorola	moto g <sup>7</sup>	
Motorola	moto g <sup>7</sup> plus	
Motorola	moto g <sup>7</sup> power	
Motorola	moto g <sup>7</sup> play	
Motorola	motorola one	
Motorola	motorola one action	
Motorola	motorola one power	
Motorola	motorola one vision	
Motorola	motorola one zoom	
Motorola	moto x <sup>4</sup>	Requires Android 8.0 or later
Motorola	moto z <sup>2</sup> force	Requires Android 8.0 or later
Motorola	moto z <sup>3</sup>	
Motorola	moto z <sup>3</sup> play	
Motorola	moto z <sup>4</sup>	
OnePlus	OnePlus 3T	Requires Android 8.0 or later
OnePlus	OnePlus 5	

Manufacturer	Model	Notes
OnePlus	OnePlus 5T	
OnePlus	OnePlus 6	
OnePlus	OnePlus 6T	
OnePlus	OnePlus 7	
OnePlus	OnePlus 7 Pro	
OnePlus	OnePlus 7 Pro 5G	
OnePlus	OnePlus 7T	
OnePlus	OnePlus 7T Pro	
Oppo	F11 Pro	
Oppo	K5	
Oppo	R17 Pro	
Oppo	realme 5	
Oppo	realme 5 Pro	
Oppo	realme Q	
Oppo	realme X	
Oppo	realme X Lite	

Manufacturer	Model	Notes
Oppo	realme XT	
Oppo	realme X2	
Oppo	realme X2 Pro	
Oppo	Reno	
Oppo	Reno2	
Oppo	Reno2 F	
Oppo	Reno2 Z	
Oppo	Reno 10x Zoom	
Oppo	Reno A	
Oppo	Reno Z	
Samsung	Galaxy A3 (2017)	Requires Android 8.0 or later ARCore always runs with auto focus mode enabled on the rear facing camera
Samsung	Galaxy A5 (2017)	
Samsung	Galaxy A6 (2018)	
Samsung	Galaxy A7 (2017)	
Samsung	Galaxy A7 (2018)	Requires Android 9.0 or later

Manufacturer	Model	Notes
Samsung	Galaxy A8	
Samsung	Galaxy A8+ (2018)	
Samsung	Galaxy A30	
Samsung	Galaxy A40	
Samsung	Galaxy A50	
Samsung	Galaxy A50s	
Samsung	Galaxy A60	
Samsung	Galaxy A70	
Samsung	Galaxy A80	
Samsung	Galaxy A90 5G	
Samsung	Galaxy Fold	
Samsung	Galaxy J5 (2017)	SM-J530 models
Samsung	Galaxy J5 Pro	SM-J530 models
Samsung	Galaxy J7 (2017)	SM-J730 models
Samsung	Galaxy J7 Pro	SM-J730 models
Samsung	Galaxy M30s	

Manufacturer	Model	Notes
Samsung	Galaxy Note8	
Samsung	Galaxy Note9	
Samsung	Galaxy Note10	
Samsung	Galaxy Note10+	
Samsung	Galaxy S7	
Samsung	Galaxy S7 edge	
Samsung	Galaxy S8	
Samsung	Galaxy S8+	
Samsung	Galaxy S9	
Samsung	Galaxy S9+	
Samsung	Galaxy S10e	
Samsung	Galaxy S10	
Samsung	Galaxy S10+	
Samsung	Galaxy S10 5G	
Samsung	Galaxy Tab Active Pro	

Manufacturer	Model	Notes
Samsung	Galaxy Tab S3	ARCore always runs with auto focus mode enabled on the rear facing camera
Samsung	Galaxy Tab S4	
Samsung	Galaxy Tab S5e	
Samsung	Galaxy Tab S6	
Sharp	AQUOS R3	
Sharp	AQUOS sense3	
Sharp	AQUOS sense3 plus	
Sony	Xperia XZ Premium	Requires Android 8.0 or later
Sony	Xperia XZ1	Requires Android 8.0 or later
Sony	Xperia XZ1 Compact	Requires Android 8.0 or later
Sony	Xperia XZ2	Requires Android 8.0 or later with software update after Aug 2018 (security patch level 2018-08-05 or later)
Sony	Xperia XZ2 Compact	Requires Android 8.0 or later with software update after Aug 2018 (security patch level 2018-08-05 or later)
Sony	Xperia XZ2 Premium	Requires Android 8.0 or later with software update after Aug 2018 (security patch level 2018-08-05 or later)

Manufacturer	Model	Notes
Sony	Xperia XZ3	
Sony	Xperia 1	
Sony	Xperia 5	
Tecno	Camon 12 Pro	
Tecno	Phantom 9	
Vivo	NEX S	
Vivo	NEX Dual Display Edition	
Wiko	View 3 Pro	
Xiaomi	Mi 8	
Xiaomi	Mi 8 SE	
Xiaomi	Mi 9	
Xiaomi	Mi 9 SE	
Xiaomi	Mi A3	
Xiaomi	Mi Mix 2S	
Xiaomi	Mi Mix 3	
Xiaomi	Pocophone F1	



Manufacturer	Model	Notes
Xiaomi	Redmi K20	
Xiaomi	Redmi K20 Pro	
Xiaomi	Redmi Note 7	
Xiaomi	Redmi Note 7 Pro	
Zebra	TC52 WLAN Touch Computer	
Zebra	TC57 WWAN Touch Computer	
Zebra	TC72 WLAN Touch Computer	
Zebra	TC77 WWAN Touch Computer	