LAMPIRAN

Lampiran 1 : Surat izin penelitian dari Dinas Pariwisata

PEMERINTAH KABUPATEN SEMARANG
KANTOR KESATUAN BANGSA DAN POLITIK
Jl.Ki Sarino Mangun Pranoto No.1 Telp./ Fax .(024) 6921250
UNGARAN

REKOMENDASI PENELITIAN
Nomor : 070 / 1562 / VI / 2017

Dasar : 1. Peraturan Menteri Dalam Negeri Republik Indonesia Nomor : 7 Tahun 2014 Tentang Perubahan Atas Peraturan Menteri Dalam Negeri Nomor 64 Tahun 2011 Tentang Pedoman Penerbitan Rekomendasi Penelitian
2. *Peraturan Bupati Semarang Nomor 91 Tahun 2011 Tentang Tugas Pokok Fungsi Dan Rincian Tugas BAPPEDA, Inspektorat, Lembaga Teknis Daerah, Kantor Penanaman Modal Dan Perijinan Terpadu, Dan Badan Penanggulangan Bencana Daerah Kabupaten Semarang.*

Menimbang : Surat Ka.Prodi. Teknik Informatika FTI UNISSULA Nomor: 075/KM/FTI/VI/2017 tanggal 6 Mei 2017 perihal permohonan penelitian.

Kepala Kantor Kesatuan Bangsa Dan Politik Kabupaten Semarang, memberikan rekomendasi kepada :

1.	Nama	:	ASNA WIDYA SAFITRI
2.	NIK/NIM	:	3322135001940001
3.	Alamat	:	Dusun RI.003/004 Gondoriyo Kecamatan Bergas Kabupaten Semarang.
4.	Pekerjaan	:	Mahasiswa
Untuk		:	Melakukan penelitian dengan rincian :
a.	Judul proposal	:	APLIKASI PENGENALAN CANDI GEDONG SONGO MENGGUNAKAN METODE AUGMENT REALITY BERBASIS ANDROID.
b.	Tempat / Lokasi	:	Dinas Pariwisata Kabupaten Semarang
c.	Bidang penelitian	:	Teknik Informatika
d.	Waktu penelitian	:	16 Juni 2017 s.d 16 September 2017
e.	Penanggung Jawab	:	Imam, M.I.S., S.T., M.Sc., Ph.D.
f.	Status Penelitian	:	Baru.
g.	Anggota Peneliti	:	-
h.	Nama Lembaga	:	UNISSULA

Ketentuan yang harus ditaati adalah :
a. Sebelum melakukan kegiatan terlebih dahulu melaporkan kepada Pejabat setempat / Lembaga swasta yang akan di jadikan obyek lokasi ;
b. Pelaksanaan kegiatan dimaksud tidak disalahgunakan untuk tujuan tertentu yang dapat mengganggu kestabilan pemerintahan ;
c. **Setelah pelaksanaan kegiatan dimaksud selesai supaya menyerahkan hasilnya kepada Kepala Kantor Kesatuan Bangsa Dan Politik Kabupaten Semarang ;**
d. Apabila masa berlaku Surat Rekomendasi ini sudah berakhir, sedang pelaksanaan kegiatan belum selesai, perpanjangan waktu harus diajukan kepada instansi pemohon dengan menyertakan hasil penelitian sebelumnya ;
e. *Surat rekomendasi ini dapat diubah apabila di kemudian hari terdapat kekeliruan dan akan diadakan perbaikan sebagaimana mestinya.*

Demikian rekomendasi ini dibuat untuk dipergunakan seperlunya.

Ungaran, 13 Juni 2017
A.n. KEPALA KANTOR KESATUAN BANGSA DAN POLITIK
KASUBAG ORGANISASI MASYARAKAT
DAN ORGANISASI POLITIK

PONSKI SUSKINDARTO, SH
Penata Tk.I
NIP. 19550821 198003 1 005

Tembusan. Kepada Yth :
1. Kepala Badan Perencanaan, Penelitian dan Pengembangan Daerah Kabupaten Semarang ;
2. Kepala Dinas Pariwisata Kabupaten Semarang ;
3. Sdr.Yang bersangkutan.

Lampiran 2 : Data jumlah wisatawan tahun 2005-2016 dari Dinas Pariwisata

DATA KUNJUNGAN WISATAWAN 2005 -2011

NO	OBJEK WISATA	TAHUN													
		2005		2006		2007		2008		2009		2010		2011	
		Wisnus	Wisman	Wisnus	Wisman	Wisnus	Wisman	Wisnus	Wisman	Wisnus	Wisman	Wisnus	Wisman	Wisnus	Wisman
1	Candi Gedong Songo	99,327	969	112,465	797	143,016	1,182	164,213	1,196	154,016	1,230	151,002	1,390	164,907	1,993
2	Museum KA Ambarawa					27,893	1491	33,506	846	47,699	1,428	68,028	1,963	35,704	1,097
3	Bukit Cinta	26,075		30,738		31,722		25,206		29,269		30,759		24,177	
4	Pemandan Muncul	54,364		65,040		67,411		63,651		62,670		69,736		74,214	
5	Museum Palagan	8,681		10,059		21,006		10,889		20,296		17,426		17,121	
6	WW Umbul Songo	14,682		13,026		15,233	53	17,658	2	12,312		6,565		6,769	
7	Kartika Wisata Kopeng	39,548	17	37,533	19	43,049	14	36,565		42,217	62	35,669	6	31,435	6
8	Bandungan Indah	20,699	18	19,215	20	25,057	37	23,866		23,204		26,777		25,721	
9	Tirto Aryo (Siwarak)	80,466		83,927		91,020		81,100		98,700	51	83,026		83,190	
10	WW Penggaron	10,012		13,584		14,619		12,761		12,686		10,954		10,740	
11	WW Semirang	9,618		10,015		11,321				11,741		13,002		12,656	
12	Rawa Permai	24,143	819	23,158	823	24,006	25	10,220	69	21,248	163	17,987	43	21,712	43
13	Wisata Argo Tlogo	8,792	396	8,631	488	9,488	854	10,034	806	3,659	1,809	7,390	705	8,026	800
14	Kampung Kopi Banaran	22,653		27,756		36,321	590	66,200	610	58,117	129	67,117	492	74,214	281
15	Gua Maria	29,942		32,549		48,200		66,300		176,442	10	299,321	133	299,981	143
16	Kolam Renang Bu Sri	8,193	194	10,466	263	11,146		9,673		10,106		10,959		10,632	
17	Taman Indah Sari	3,029		3,271		3,555	300	3,977		4,253		2,829		3,110	
18	Langen Tirto	19,796		20,283		21,421	78	25,448	105	28,275	115	60,966	70	57,215	65
19	Umbul Sidomukti					25,989		97,864		91,201		48,179		48,781	
20	Fountain Water Resort									3,984		4,005	4	4,304	4
21	Curug Kembar Bolo Dewo									3,360	3	4,545		4,770	
22	Ziarah Makam Nyatnyono									74,300		150,050		150,700	
		480,020	2,413	521,716	2,410	671,473	4,624	759,131	3,634	989,755	5,000	1,186,292	4,806	1,170,079	4,432

REKAPITULASI KUNJUNGAN ODTW
DI KABUPATEN SEMARANG
TAHUN 2012

NO	NAMA ODTW	BULAN												TOTAL	
		JAN		FEB		MAR		APR		MAY		JUN			
		WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS
1	Air Terjun Semirang		942		555		774		965		1,064		1,125	-	5,425
2	Candi Gedong Songo	80		106	1,578	70	16,724	114	24,039	112	24,369	151	27,075	633	93,785
3	Museum KA Ambarawa													-	-
4	Bukit Cinta						1,679		2,242		2,299		2,012	-	8,232
5	Pemandian Muncul		5,997		5,557		7,526		10,152		10,196		9,343	-	48,771
6	Museum Palagan Ambarawa						1,819		2,618		2,038		2,336	-	8,811
7	Wana Wisata Umbul Songo		902		590		460		446		627		890	-	3,915
8	Kartika Wisata Kopeng		2,953		1,625		2,054		2,200		3,075		3,145	-	15,052
9	Bandungan Indah		1,329		823		765		2,194		2,160		2,725	-	9,996
10	Pemandian Tirto Argo		7,775		4,815		5,025		4,610		4,775		7,975	-	34,975
11	Wana Wisata Penggaron		580		436		744		694		904		990	-	4,348
12	Rawa Permai		1,448		785		1,027		1,424		1,470		2,190	-	8,344
13	Wisata Argo Tlogo	157	600	34	300	143	325		360	12	242	90	300	436	2,127
14	Kampoeng Kopi Banaran	38	4,941	29	5,578	42	5,145	35	7,613	30	9,206	55	9,600	229	42,083
15	Fountain Water Resort		2,402		2,109		2,593		3,596		3,463		3,513	-	17,676
16	Curug Kembar Bolo Dewo		400		385		405		420		410		550	-	2,570
17	Tempat Ziarah Gua Maria	7	11,425	15	28,700	10	25,650	30	27,610	15	26,510	20	27,125	97	147,020
18	Kolam Renanga Bu Sri		950		815		895		895		925		957	-	5,437
19	Taman Indah Sari		225		280		285		240		241		290	-	1,561
20	Langen Tirto		5,900		4,692		5,445		4,774		6,271	25	4,075	25	31,157
21	Umbul Sido Mukti		2,050		2,350		1,960		2,520		2,025		3,050	-	13,955
22	Ziarah Makam Nyatnyono		5,300		5,950		6,050		6,125		18,050		18,250	-	59,725

REKAPITULASI KUNJUNGAN ODTW
TAHUN 2013
DINAS PEMUDA OLAHRAGA, KEBUDAYAAN DAN PARIWISATA KABUPATEN SEMARANG

NO	NAMA DAYA TARIK WISATA	JUMLAH PENGUNJUNG												JUMLAH TOTAL	
		JULI		AGUSTUS		SEPTEMBER		OKTOBER		NOVEMBER		DESEMBER			
		WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS
	WISATA ALAM														
1	Wana Wisata Penggaron		356		756		589		862		788		636	-	3,987
2	Wana Wisata Air Terjun Semirang		1,025		1,497		1,145		1,060		1,325		1,365	-	7,417
3	Wana Wisata Umbul Songo		194		782		558		225		255		245	-	2,259
4	Curug Kembar Bolodewo		420		625		525		465		470		495	-	3,000
														-	-
	WISATA BUDAYA													-	-
1	**Candi Gedong Songo**	**249**	**15,193**	**272**	**39,785**	**161**	**20,791**	**136**	**23,774**	**117**	**23,738**		**50,475**	**935**	**173,756**
2	Museum Palagan Ambarawa		2,084		3,952		2,267		2,957		2,640	131	4,189	131	18,089
3	Museum Kereta Api													-	-
4	Makam Nyatnyono		10,825		19,475		16,415		15,315		14,518		16,958	-	93,506
5	Goa Maria Keteb Ambarawa	25	21,830	50	22,772	152	39,815	65	25,025	80	21,215	85	27,235	457	157,892
														-	-
	WISATA BUATAN													-	-
1	Bukit Cinta Rawa Pening		1,743		4,020		1,959		1,910		1,822		2,218	-	13,672
2	Pemandian Muncul		11,410		12,601		10,104		11,252		9,204		7,989	-	62,560
3	The Fountain Water Park & Resto		3,120		3,950		2,960		2,525		2,615		3,580	-	18,750
4	Kolam Renang Tirto Agung (Siwarak)		6,025		12,625		3,650		5,260		6,675		11,660	-	45,895
5	Kolam Renang Bu Sri		475		1,260		495		1,112		1,132		1,352	-	5,826
6	Kartika Wisata Kopeng		3,825		4,287		4,316		5,587		4,016		4,365	-	26,396
7	Taman Wisata Rawa Permai		2,662		4,297		1,885		1,829		1,850		2,125	-	14,648
8	New Bandungan Indah Divaland		1,250		2,650		2,600		1,505		1,205		2,775	-	11,985
9	Argo Tlogo Plantation	50	265	95	975	60	600	55	1,465	85	1,265	95	1,590	440	6,160
10	Taman Indah Sari		360		446		405		385		400		408	-	2,404
11	Umbul Sido Mukti		3,050		3,972		3,015		3,550		4,585		11,165	-	29,337
12	Kampoeng Kopi Banaran	25	4,225	30	6,300	23	7,725	15	6,551	60	6,125	65	8,565	218	39,491
13	Langen Tirto		584		5,780		6,965		5,380		4,605		4,618	-	27,932
	JUMLAH PER BULAN	349	90,921	447	152,807	396	128,784	271	117,994	342	110,448	376	164,008	2,181	764,962

LAPORAN KUNJUNGAN WISATAWAN
TAHUN 2014
DINAS PEMUDA OLAHRAGA, KEBUDAYAAN DAN PARIWISATA KABUPATEN SEMARANG

KAB. SEMARANG

NO	NAMA DAYA TARIK WISATA	JUMLAH PENGUNJUNG								JUMLAH TOTAL	
		JAN		FEB		MAR		APR			
		WISMA	WISNUS	WISMA	WISNUS	WISMA	WISNUS	WISMA	WISNUS	WISMA	WISNUS
	WISATA ALAM										
1	Wana Wisata Penggaron		535		430		705		675	-	2,345
2	Wana Wisata Air Terjun Semirang		575		463		789		980	-	2,807
3	Wana Wisata Umbul Songo		678		611		329		243	-	1,861
4	Curug Kembar Bolodewo		415		405		418		445	-	1,683
										-	-
	WISATA BUDAYA									-	-
1	**Candi Gedong Songo**	**53**	**15,405**	**149**	**9,599**	**118**	**12,524**	**97**	**12,636**	**417**	**50,164**
2	Museum Palagan Ambarawa		3,026		1,933		2,405		3,530	-	10,894
3	Museum Kereta Api									-	-
4	Makam Nyatnyono		5,460		5,909		6,109		10,145	-	27,623
5	Goa Maria Keteb Ambarawa	30	11,438	25	27,720	35	26,705	40	27,655	130	93,518
										-	-
	WISATA BUATAN									-	-
1	Bukit Cinta Rawa Pening		2,613		1,576		1,499		2,566	-	8,254
2	Pemandian Muncul		7,258		6,190		7,496		12,957	-	33,901
3	The Fountain Water Park & Resto		2,430		2,120		2,612		3,490	-	10,652
4	Kolam Renang Tirto Agung (Siwarak)		7,785		4,835		5,035		4,625	-	22,280
5	Kolam Renang Bu Sri		965		830		910		925	-	3,630
6	Kartika Wisata Kopeng		5,655		2,594		4,974		2,705	-	15,928
7	Taman Wisata Rawa Permai		1,115		875		960		1,494	-	4,444
8	New Bandungan Indah Divaland		1,360		875		885		2,225	-	5,345
9	Argo Tlogo Plantation	125	725	48	335	130	360	25	375	328	1,795
10	Taman Indah Sari		291		302		309		285	-	1,187
11	Umbul Sido Mukti		2,090		2,410		2,070		2,645	-	9,215
12	Kampoeng Kopi Banaran	25	4,482	32	4,326	60	3,907	40	4,490	157	17,205
13	Langen Tirto		5,925		4,715		5,510		4,799	-	20,949
	JUMLAH PER BULAN	233	80,226	254	79,053	343	86,511	202	99,890	1,032	345,680

JUMLAH WISATAWAN DI KABUPATEN SEMARANG 2015 - 2016

NO	NAMA DAYA TARIK WISATA	2015		2016		JUMLAH	
		WISMA	WISNUS	WISMAN	WISNUS	WISMAN	WISNUS
1	Wana Wisata Penggaron		10,183		10,490	-	20,673
2	Wana Wisata Air Terjun Semirang		14,679		14,107	-	28,786
3	Curug Kembar Bolodewo		5,448		6,388	-	11,836
4	Curug Tujuh Bidadari		8,677		18,822	-	27,499
5	Air Terjun Kali Pancur				10,429	-	10,429
6	Air Terjun Curug Lawe			1,086	31,900	1,086	31,900
7	**Candi Gedong Songo**	**1,569**	**325,220**	**1,729**	**345,594**	**3,298**	**670,814**
8	Museum Palagan Ambarawa		35,448		69,963	-	105,411
9	Museum Kereta Api			14,832	223,942	14,832	223,942
10	Makam Nyatnyono		162,534		18,546	-	181,080
11	Goa Maria Keteb Ambarawa	168	334,170	320	269,169	488	603,339
12	Goa Maria Rosa Mistika				12,080	-	12,080
13	Sri Kukus Rejo Gunung Kalong				2,349	-	2,349
14	Bukit Cinta Rawa Pening		32,599		43,694	-	76,293
15	Pemandian Muncul		123,484		134,969	-	258,453
16	The Fountain Water Park & Resto		44,406		72,395	-	116,801
17	Kolam Renang Tirto Agung (Siwarak)		111,007		100,100	-	211,107
18	Kolam Renang Bu Sri		11,453		17,534	-	28,987
19	Kolam Renang Bukit Lerep Indah				1,050	-	1,050
20	Kartika Wisata Kopeng		104,052		20,597	-	124,649
21	Taman Wisata Rawa Permai		26,742		20,094	-	46,836
22	Taman Kelinci		21,085		12,641	-	33,726
23	Langen Tirto	1	62,375		21,049	1	83,424
24	New Bandungan Indah Divaland		29,484		55,771	-	85,255
25	Eling Bening			77	152,630	77	152,630
26	Tlogo Resort dan Goa Rong View	674	39,338	247	36,627	921	75,965
27	Agro Wisat Pasanggrahan Watu Gunung				11,463	-	11,463
28	Agro Wisata Kencana				31,156	-	31,156
29	Agro Wisata Hortimart				28,806	-	28,806
30	Umbul Sido Mukti				76,611	-	76,611
31	Kampoeng Kopi Banaran	1,121	112,606	5,633	113,293	6,754	225,899
32	Batik Purwanti				82,136	-	82,136
33	Cimory On the Valley				43,747	-	43,747
34	PT Sosro				82,136	-	82,136
JUMLAH		3,533	1,614,990	23,924	2,192,278	27,457	3,807,268

Lampiran 3 : Support Device (Android Play, IOS dan Android China)

Android (Google Play)

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
		Supports multiple GPU texture resolutions
Google	Pixel 2 XL	Supports 60 fps camera capture frame rate on the rear-facing camera
		Supports multiple GPU texture resolutions
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
		Supports multiple GPU texture resolutions
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
		Supports multiple GPU texture resolutions
Google	Pixel 3a	
Google	Pixel 3a XL	
Google	Pixel 4	Supports multiple GPU texture resolutions
Google	Pixel 4 XL	Supports multiple GPU texture resolutions
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
Manufacturer	**Model**	**Notes**

HMD Global	Nokia 8 Sirocco	
HMD Global	Nokia 8.1	
Huawei	Honor 8X	
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	
Huawei	Porsche Design Mate 20 RS	
Huawei	Y9 2019	
Infinix Mobile	Note 6	
Kyocera	Torque G04	
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
Manufacturer	**Model**	**Notes**

LG	Stylo 5	
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^{5s} plus	
Motorola	moto g^{6}	
Motorola	moto g^{6} plus	
Motorola	moto g^{7}	
Motorola	moto g^{7} plus	
Motorola	moto g^{7} power	
Motorola	moto g^{7} play	
Motorola	motorola one	
Motorola	motorola one action	
Motorola	motorola one power	
Motorola	motorola one vision	
Motorola	motorola one zoom	
Motorola	moto x^{4}	Requires Android 8.0 or later
Motorola	moto z^{2} force	Requires Android 8.0 or later
Motorola	moto z^{3}	
Manufacturer	**Model**	**Notes**
Motorola	moto z^{3} play	

Motorola	moto z⁴	
OnePlus	OnePlus 3T	Requires Android 8.0 or later
OnePlus	OnePlus 5	
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	
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)	Some models only support OpenGL ES 3.0 and earlier

Manufacturer	Model	Notes
Samsung	Galaxy A7 (2018)	Some models only support OpenGL ES 3.0 and earlier
		Requires Android 9.0 or later
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
		Some models only support OpenGL ES 3.0 and earlier
Samsung	Galaxy J5 Pro	SM-J530 models
		Some models only support OpenGL ES 3.0 and earlier
Samsung	Galaxy J7 (2017)	SM-J730 models
		Some models only support OpenGL ES 3.0 and earlier
		Certain models only support OpenGL ES 3.1 and earlier
Samsung	Galaxy J7 Pro	SM-J730 models
		Some models only support OpenGL ES 3.0 and earlier
		Certain models only support OpenGL ES 3.1 and earlier
Samsung	Galaxy M30s	
Samsung	Galaxy Note8	
Samsung	Galaxy Note9	
Samsung	Galaxy Note10	
Samsung	Galaxy Note10+	
Samsung	Galaxy S7	Supports multiple GPU texture resolutions
Samsung	Galaxy S7 edge	Supports multiple GPU texture resolutions
Samsung	Galaxy S8	

Manufacturer	Model	Notes
Samsung	Galaxy S8+	
Samsung	Galaxy S9	
Samsung	Galaxy S9+	
Samsung	Galaxy S10e	
Samsung	Galaxy S10	Supports multiple GPU texture resolutions
Samsung	Galaxy S10+	Supports multiple GPU texture resolutions
Samsung	Galaxy S10 5G	
Samsung	Galaxy Tab Active Pro	
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	
Sharp	AQUOS zero2	
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)
Sony	Xperia XZ3	
Sony	Xperia 1	
Sony	Xperia 5	
Tecno	Camon 12 Pro	
Tecno	Phantom 9	
Vivo	NEX S	
Manufacturer	**Model**	**Notes**

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	
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	

Android (China)

Manufacturer	Model	Notes
Huawei	Honor 10	
Huawei	Honor Magic 2	
Huawei	Honor V20	
Huawei	Maimang 7	
Huawei	Mate 20	
Huawei	Mate 20 Pro	
Huawei	Mate 20 X	
Huawei	Nova 3	
Huawei	Nova 3i	
Huawei	Nova 4	
Huawei	P20	
Manufacturer	**Model**	**Notes**

Huawei	P20 Pro	
Huawei	P30	
Huawei	P30 Pro	
Huawei	Porsche Design Mate RS	
Huawei	Porsche Design Mate 20 RS	
Oppo	K5	
Oppo	realme Q	
Oppo	realme X	
Oppo	realme X Lite	
Oppo	realme X2	
Oppo	realme X2 Pro	
Oppo	Reno	
Oppo	Reno 10x Zoom	
Oppo	Reno Ace	
Oppo	Reno Z	
Oppo	Reno2	
Oppo	Reno2 Z	
Samsung	Galaxy Note9	
Samsung	Galaxy S9	
Samsung	Galaxy S9+	
Samsung	Galaxy S10e	
Samsung	Galaxy S10	Supports multiple GPU texture resolutions
Samsung	Galaxy S10+	Supports multiple GPU texture resolutions
Samsung	Galaxy S10 5G	
Vivo	iQOO	
Vivo	NEX S	
Xiaomi	Mi Mix 2S	
Xiaomi	Mi Mix 3	
Xiaomi	Mi 8 SE	
Xiaomi	Mi 8 SE	
Xiaomi	Mi 9	

IOS

ProducT	Model	Notes
iPhone	iPhone 11	
iPhone	11 Pro	
iPhone	11 Pro Max	
iPhone	iPhone XR	
iPhone	iPhone XS and XS Max	
iPhone	iPhone X	
iPhone	iPhone 8 and 8 Plus	
iPhone	iPhone 7 and 7 Plus	
iPhone	iPhone 6S and 6S Plus	
iPhone	iPhone SE	
iPad	iPad Air 3rd Generation	
iPad	iPad mini 5th Generation	
iPad	12.9-in. iPad Pro (1st Generation)	
iPad	12.9-in. iPad Pro (2nd Generation)	
iPad	12.9-in. iPad Pro (3rd Generation)	
iPad	11-in. iPad Pro	
iPad	10.5-in. iPad Pro	
iPad	9.7-in. iPad Pro	
iPad	iPad (7th Generation)	
iPad	iPad (6th Generation)	
iPad	iPad (5th Generation)	
iPod	iPod touch (7th Generation)	