Software Development Kit (Video Editor SDK) benchmarks for reference purposes

The below mentioned numbers are for benchmarking and reference purposes. The Contractor does not guarantee the reproducibility of any performance and quality benchmarks.

iOS

iOS phones classification	Camera resolution and fps rate, export videos
Low end performance devices: iphone devices 6 and 6+	480p, 30 fps
Middle performance devices: iphone devices from 6s to SE	720p, 30 fps
High end performance devices:iphone devices from 7 to 13	1080p, 30 fps

Android
The Video Editor SDK is compatible with ARM processors i.e. arm64-v8a if Face AR SDK is used. x86, x86-64 are not supported yet.

Android phones classification	Camera resolution and fps rate, export videos
Low end performance devices	360p, 30 fps
Middle performance devices	720p, 30 fps
High end performance devices	1080p, 30 fps

Software performance benchmarks, stability and reliability are affected by:

- light conditions,
- environment temperature,
- phone temperature,
- OS version,
- installed drivers, patches,
- installed system updates,
- software installed in the device,
- battery and device age,
- battery charge level,
- quality and speed of internet connection,
- coding and decoding errors or missing and/or corrupted parts of the media files,
- application opened in the background, etc.

There are possible discrepancies in Video Editor SDK performance.

Nothing contained in this description guarantees the Software merchantability for the emulator.

Video Editor SDK can be used on the devices meeting the following requirements:

(a) iOS Devices as follows:

iPhone 7

Xcode 16

Swift 6

iOS 15.0

(b) Android Devices as follows:

Java 17+

Kotlin 1.7+

Android Studio 4+

1.42.0 Android 8.0 or higher

OpenGL ES 3.0

Banuba is entitled to recommend new devices to be used with the Software within the framework of Maintenance Release. Customer acknowledges and agrees that new devices may differ from the devices recommended hereinabove.

Banuba Software does not support the following devices and Banuba does not guarantee the functioning of Video Editor SDK in any way on these devices:

- Kernel architecture ARMv7I, CPUs with 4x cores

Android phones classification:

Device class, based on performance	Examples of typical model	Specifications. How we detect which class the device belongs to
Low end performance devices	• Huawei Honor 8A • Huawei Honor 8S • Huawei Honor 7A • Samsung Galaxy J2 Core • Samsung Galaxy J5(2016) • Xiaomi Redmi 6A • Xiaomi Redmi 4X • Xiaomi Redmi 5A • Meizu PRO 6 • other low level or low performance devices	• CPUs with 4x cores, such as ○ Exynos 7570 Quad (14 nm) ○ Qualcomm MSM8916 Snapdragon 410 (28 nm) ○ Qualcomm MSM8940 Snapdragon 435 ○ Mediatek MT6761 Helio A22 (12 nm) • devices based on GPU PowerVR GE8320

Middle performance devices	• Яндекс.Телефон • Huawei Honor 10 Lite • Huawei Honor 10I • Huawei Honor 7C • Huawei Honor 8X • Huawei Honor 9 Lite • Huawei Honor 9X • Redmi Note 8 Pro • Samsung Galaxy A5 (2017) • Samsung A505FM (A50) • Samsung A505FN (A50) • Samsung A515F (A51) • Samsung Galaxy A8 • Xiaomi Redmi 5 Plus • Xiaomi Redmi 7A • Xiaomi Redmi 8	

High end performance devices	• Honor View 20
	• Huawei Mate 20
	• Google Pixel 2XL
	• Google Pixel 2
	• Google Pixel 3
	• Huawei Honor 10
	• LG V30+
	• Samsung Galaxy S10 5G
	• Samsung Galaxy S20 Ultra
	• Samsung Galaxy S8
	• Samsung Galaxy Note 10 Plus
	• Samsung Galaxy S9 Plus
	• Samsung Galaxy S9
	• Vivo S6 5G
	• Xiaomi Redmi Note 7
	• Xiaomi Mi 9 lite
	• Xiaomi Redmi Note 8T
	• Xiaomi Mi 10 Pro
	• Oppo Find X2 Pro
	• Vivo NEX Dual Display
	• OnePlus 7 Pro
	• OnePlus 6
	• Oppo RX17 Pro
	• Sony Xperia XZ2 Premium
		• CPUs with 8x cores, such as
		  ○ Exynos 8895
		  ○ Exynos 9810
		  ○ Exynos 9820
		  ○ Exynos 980
		  ○ Exynos 990
		  ○ HiSilicon Kirin 970
		  ○ HiSilicon Kirin 980
		  ○ HiSilicon Kirin 990
		  ○ Qualcomm Snapdragon 820/821
		  ○ Qualcomm Snapdragon 835
		• GPU Adreno 610-685

Blacklist devices Contractor does not support the following	• Huawei Y5 lite • Samsung Galaxy A5 (2016) • Samsung Galaxy J1	• devices with GPU PowerVR GE8100 • Kernel Architecture not ARMv8-64 • CPU Exynos 7580

devices and does not guarantee the functioning of the Video Editor or its modules (CAM, VE, etc) in any way on these devices. Customer is advised to blacklist these phones and restrict the functionality of its Product to viewing only features		• Kernel Architecture ARMv8l-32 with less than 4 cores

The Software bugs and crashes fixing on iOS and Android devices, **not mentioned hereinabove,** is subject to a separate written agreement between the Parties.

List of permissions

User has to provide the following permissions to the Customer's Product, containing Video Editor SDK

	iOS	Android	Functionality
Permission to use camera	yes	yes	Camera
Permission to use microphone	yes	yes	Sound recording functionality
Permission to read/write files from device	yes	yes	Slideshow functionality, editing of earlier recorded videos, export and saving of the audio and video files

Slideshow supported file types

The Video Editor SDK supports the following media formats.

	Image	Video	Audio
iOS	formats supported by iOS (formats that iOS displays in the native gallery)	formats supported by iOS (formats that iOS displays in the native gallery)	.mp3, .wav, .aac
Android	.jpg .Gif (static) .heic (from Android 10 and higher) .raf	.mp4 .mov .m4a	

	.nef .cr2 .jpeg .png .bmp		

List of Third-Party Software

iOS	Native libraries 1. Foundation 2. AV Foundation 3. UI Kit 4. AV Kit 5. Core media 6. Core video 7. Core graphics 8. GL Kit 9. Photos 10. OpenGLES 11. MetalKit 12. SystemConfiguration 13. os.log 14. GLProgram 15. MediaPlayer 16. Accelerate
Android	1. Koin to configure Video Editor SDK for your Product. 2. ExoPlayer 3. Glide 4. Kotlin and Kotlin Coroutines - org.jetbrains.kotlinx:kotlinx-coroutines-core 5. AndroidX libraries 6. Lottie library 7. Firebase libraries 8. Squareup libraries(moshi, okhttp3, retrofit2)