

Tencent Effect SDK

SDK Download

Product Documentation



Copyright Notice

©2013-2022 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

Trademark Notice



All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

Contents

- SDK Download
 - Features
 - SDK Download
 - Version History

SDK Download

Features

Last updated : 2022-11-30 18:02:11

Tencent Effect is offered as packages as well as capabilities. There are 14 packages, which fall into three categories: the [basic A series](#), the [advanced S series](#), and the [avatar V series](#). They come with different capabilities. In addition, to give you greater flexibility and scalability, we also provide specific capabilities.

The table below lists the packages and capabilities we offer and what you can achieve with them. For more information about the SDK, see [SDK Download](#).

Basic A series

Basic A editions offer common beautification features and are for customers who do not have high requirements on face editing.

Feature		Edition					
		A1 - 01	A1 - 02	A1 - 03	A1 - 04	A1 - 05	A1 - 06
Basic	Basic beauty filters Brighten, smooth skin, and rosy skin	✓	✓	✓	✓	✓	✓
	Image settings Contrast, saturation, and sharpness	✓	✓	✓	✓	✓	✓
	Basic beautification Big eyes and slim face (natural, woman, and man)	✓	✓	✓	✓	✓	✓
	Filters 20 general filters by default	✓	✓	✓	✓	✓	✓
Extended	Stickers (10 free 2D general stickers of your choosing)	-	✓	✓	✓	✓	✓
	General beautification SDKs (Face width/Chin/Hairline/Nose size)	-	-	✓	-	-	-

	Feature	Edition					
		A1 - 01	A1 - 02	A1 - 03	A1 - 04	A1 - 05	A1 - 06
	Gesture recognition (One gesture sticker for free)	-	-	-	✓	-	-
	Keying/Virtual background (Three keying stickers for free)	-	-	-	-	✓	-
	Makeup (Three full-face makeup styles for free)	-	-	-	-	-	✓
SDK download		Download					

Advanced S series

Advanced S editions offer enhanced beautification features (including stickers and makeup looks) and are for customers with high requirements on face editing.

	Feature	Edition				
		S1 - 00	S1 - 01	S1 - 02	S1 - 03	S1 - 04
Basic	Basic beauty filters Brighten, smooth skin, and rosy skin	✓	✓	✓	✓	✓
	Image settings Contrast, saturation, and sharpness	✓	✓	✓	✓	✓
	Advanced beautification Big eyes, face width, slim face (natural, woman, and man), V shape, chin, face length, face shape, hairline, bright eyes, eye distance, eye corners, slim nose, nose wings, cheekbones, nose position, white teeth, wrinkles, smile lines, eye bags, lip shape, lip height, lipstick, blush, and contour	✓	✓	✓	✓	✓
	Filters (20 general filters by default)	✓	✓	✓	✓	✓
	Stickers (10 2D general stickers for free)	-	✓	✓	✓	✓

	Feature	Edition				
		S1 - 00	S1 - 01	S1 - 02	S1 - 03	S1 - 04
	Advanced stickers (three 3D general stickers for free)	-	✓	✓	✓	✓
	Makeup (Three full-face makeup styles for free)	-	✓	✓	✓	✓
Extended	Gesture recognition (One gesture sticker for free)	-	-	✓	-	✓
	Keying/Virtual background (Three keying stickers for free)	-	-	-	✓	✓
SDK download		Download				

Avatar V series

Avatar V series editions offer virtual avatars, avatar customization, and facial expression mirroring. They are designed for applications such as avatar-based socializing and live streaming.

	Feature	Edition		
		V1 - 00	V1 - 01	V1 - 02
Basic	Virtual avatars Proprietary lightweight 3D rendering engine	✓	✓	✓
	Avatar customization More than 50 types of detail adjustment, including eyes, nose, lips, face shape, and hair	✓	-	✓
	Facial keypoint recognition and expression mirroring Recognizes 256 facial keypoints and mimics facial expressions from 52 dimensions	-	✓	✓
SDK download	iOS & Android	Download		

X series capabilities

The X series offers specific capabilities, giving you greater flexibility and scalability.

Capability	No.	
	X1 - 01	X1 - 02
Capability	Keying	Facial keypoint detection
Description	Accurately removes the background in real time and applies a virtual background (customizable)	Detects when a face is partially captured or concealed or when there are multiple faces; recognizes 256 facial keypoints
SDK download	Download	

SDK Download

Last updated : 2022-12-01 17:17:52

The Tencent Effect SDK is available in 16 editions, including six basic editions, five advanced editions, three avatar editions, and two X series capabilities. For details about the features of different editions, see [Pricing Overview](#).

Mobile Editions

Note :

The ZIP package of the Tencent Effect SDK for iOS includes the SDK and demo project. If you want to use the Tencent Effect iOS demo, you can download the ZIP package on this page.

Basic editions

Basic A editions offer common beautification features and are for customers who do not have high requirements on face editing.

Edition	iOS	Android	SDK Integration Guide	Size
Basic A1 - 01	Download	Download	<ul style="list-style-type: none"> iOS Android 	<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 10.6 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 12.5 MB armeabi-v7a: 10.0 MB assets: 10.6 MB
Basic A1 - 02	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 10.6 MB
Basic A1 - 03	Download	Download		<p>Android package size:</p> <ul style="list-style-type: none"> 22.6 MB armeabi-v7a: 18.3 MB assets: 10.6 MB aar: 700 KB
Basic A1 - 04	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB

Edition	iOS	Android	SDK Integration Guide	Size
				<ul style="list-style-type: none"> arm64: 39.8 MB bundle: 14.4 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 22.6 MB armeabi-v7a: 18.3 MB assets: 14.4 MB aar: 700 KB
Basic A1 - 05	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 17.9 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 22.6 MB armeabi-v7a: 18.3 MB assets: 17.9 MB aar: 700 KB
Basic A1 - 06	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 10.6 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 22.6 MB armeabi-v7a: 18.3 MB assets: 10.6 MB aar: 700 KB

Advanced editions

Advanced S editions offer advanced beautification features and are for customers with high requirements on face editing.

Edition	iOS	Android	SDK Integration Guide	Size
Advanced S1 - 00	Download	Download	<ul style="list-style-type: none"> iOS Android 	<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 31 MB bundle: 10.6 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 12.8 MB armeabi-v7a: 10.2 MB aar: 864 KB assets: 13.9 MB

Edition	iOS	Android	SDK Integration Guide	Size
Advanced S1 - 01	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 17.7 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 22.6 MB armeabi-v7a: 18.3 MB assets: 17.7 MB aar: 700 KB
Advanced S1 - 02	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 21.6 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 22.6 MB armeabi-v7a: 18.3 MB assets: 21.6 MB aar: 700 KB
Advanced S1 - 03	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 25 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 22.6 MB armeabi-v7a: 18.3 MB assets: 25.0 MB aar: 700 KB
Advanced S1 - 04	Download	Download		<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 39.8 MB bundle: 28.8 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 22.6 MB armeabi-v7a: 18.3 MB assets: 28.8 MB aar: 700 KB

Avatar editions

Avatar V series editions offer virtual avatars, avatar customization, and facial expression mirroring. They are designed for applications such as avatar-based socializing and live streaming.

Edition	iOS	Android	SDK Integration Guide	Size
V1 - 00	Download	Download	<ul style="list-style-type: none"> Android iOS 	<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 6.4 MB bundle: 31.9 MB <p>Android package size</p> <ul style="list-style-type: none"> arm64-v8a: 30.5 MB armeabi-v7a: 23.4 MB assets: 68.7 MB aar: 1.2 MB
V1 - 01				
V1 - 02				

X series capabilities

The X series offers specific capabilities, giving you greater flexibility and scalability.

Edition	iOS	Android	SDK Integration Guide	Size
X1 - 01	Download	Download	Keying	<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 6.4 MB bundle: 15.2 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 23.4 MB armeabi-v7a: 18.4 MB assets: 11.6 MB; aar: 1.2 MB
X1 - 02	Download	Download	Facial keypoint detection	<p>iOS package size:</p> <ul style="list-style-type: none"> arm64: 6.4 MB bundle: 9.7 MB <p>Android package size:</p> <ul style="list-style-type: none"> arm64-v8a: 23.4 MB armeabi-v7a: 18.4 MB assets: 6 MB aar: 1.2 MB

Note :

For more information on reducing the package size, see [Reducing SDK Size \(Android\)](#) and [Reducing SDK Size \(iOS\)](#).

Desktop Editions

Platform	SDK Download	Integration Guide
Windows	ZIP	-
macOS	ZIP	-

Cross-Platform Editions

Platform	SDK Download	Integration Guide
Flutter	ZIP	Doc

Version History

Last updated : 2022-11-30 18:02:11

Android

Version 2.5.0.207 Released on October 25, 2022

- Introduced avatar features.
- Added support for muting and unmuting audio effects.
- Added a callback API for `updateProperties` .
- Added the `setBundleToLightEngine` API, which is used to dynamically add AI model-based resources.
- Added support for code obfuscation.
- Deleted the `LogUtils` class in the SDK.

Version 2.4.2.324 Released on September 13, 2022

Fixed the issue where the blush, contour, and lipstick effects fail to work in some cases.

Version 2.4.2.322 Released on July 19, 2022

Fixed some effect errors.

Version 2.4.2.317 Released on July 13, 2022

Deleted `beacon.aar` . If you update from a version earlier than v2.4.2.317, the new version will not include `beacon.aar` .

Version 2.4.2 Released on July 7, 2022

- Optimized the face detection algorithm to fix unstable recognition and tracking performance in some scenarios.
- The parameters of the `updateProperty` API are now validated. For details about the parameter requirements, see [updateProperty](#).
- Fixed the issue where the value returned by `isDeviceSupport` is sometimes inaccurate.
- Added `beacon.aar` to the `libs` directory of the SDK. You need to copy it to your project. If your project already has a beacon, it may cause a conflict. To avoid this, do not import the AAR file.
- Added support for Unity. For details, see the `Unity` folder in the SDK package.

iOS

Version 2.5.0.250 Released on October 31, 2022

- Added support for muting audio effects.
- Introduced avatar features.
- Added support for compilation on an emulator.
- Fixed known memory leak issues.

Version 2.4.2.114 Released on July 19, 2022

- Fixed some effect errors.
- Reduced the package size.

Version 2.4.2 Released on July 7, 2022

- Optimized the face detection algorithm to fix unstable recognition and tracking performance in some scenarios.
- Added support for dynamically downloading effect resources for the demo.
- Fixed failure to use custom filter images.
- Updated the API documentation.