

TIS Mobile Technology

Specifications

Version 5

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TIS Mobile specifications

This document describes the specifications for devices and operating systems that are supported by TIS Mobile technology.

It also lists the minimum requirements and recommended requirements for TIS Mobile technology.

Requirements

Camera

TIS Mobile technology is based on taking a high quality picture of the document, so the quality of the device's camera is very important.

The technology works best with a 5.0 MP camera or higher. Some high quality images have also been achieved with devices that have a 3.2 MP camera, but this depends on the device, so using the TIS Mobile technology with less than 5.0 MP is possible, but at your own risk.

The camera must also support Auto Focus to use the technology.

Minimum: 3.2 MP (device dependent, not supported officially).

Recommended: 5.0 MP or higher.

CPU / Processor

TIS Mobile technology has to perform a lot of image manipulation to prepare a high quality gray scale or black & white TIF image from the original colored JPG image. Therefore the more powerful the CPU, the better the performance.

The technology is suitable to work with a processor of 1GHz or higher. The performance will be much slower with any processor slower than that.

Minimum: 1 GHz (1000 MHz)

Recommended: 1 GHz (1000 MHz) or higher

RAM / Memory

The technology has to perform a lot of image manipulation to prepare a high quality gray scale or black & white TIF image from the original colored JPG image. Therefore the images must reside in the memory for some of those operations.

The technology is suitable to work with 1GB of RAM or higher. The performance will be much slower with any less RAM than that.

Minimum: 512 MB

Recommended: 1 GB or higher

Data / Network connectivity

The technology runs solely on the device and no connection to the Internet or network is necessary for it to work. If you want to upload the picture to your own server or cloud, you must, of course, have connectivity for that.

Apple devices

Operating system

On Apple devices, iOS 7.0 and higher are supported.

- For iOS 9 the supporting version is 4.0 and later (earlier versions supporting iOS8 work as well).
- For iOS 8 the supporting version is 3.3.1 and later (but earlier versions may work as well).
- For iOS7 the supporting version is 2.9.1 and later.

Devices

The following devices have been tested and are supported:

iPhone 4 * iPhone 6s
 iPhone 4s iPhone 6s Plus
 iPhone 5 iPad 3
 iPhone 5c iPad 4
 iPhone 5s iPad Mini
 iPhone 6 iPad Air
 iPhone 6 Plus

* slower in performance due to meeting only minimum hardware requirements

Supported features

Here is a list of most common devices with their hardware specifications and support for video and still capture using the TIS library.

Device family	Release	Camera	Resolution (pixels)	Video	Support still capture	Support video capture
iPhone 4	06/2010	5MP	2592 x 1936	720p@30fps	Y	N
iPhone 4S	10/2011	8MP	3264 x 2448	1080p@30fps	Y	Y

Device family	Release	Camera	Resolution (pixels)	Video	Support still capture	Support video capture
iPhone 5	09/2012	8MP	3264 x 2448	1080p@30fps	Y	Y
iPhone 5c	09/2013	8MP	3264 x 2448	1080p@30fps	Y	Y
iPhone 5S	09/2013	8MP	3264 x 2448	1080p@30fps	Y	Y
iPhone 6	09/2014	8MP	3264 x 2448	1080p@60fps	Y	Y
iPhone 6 Plus	09/2014	8MP	3264 x 2448	1080p@60fps	Y	Y
iPhone 6S	09/2015	12MP	4032 x 3024	2160p@30fps	Y	Y
iPhone 6S Plus	09/2015	12MP	4032 x 3024	2160p@30fps	Y	Y
iPad 3	03/2012	5MP	2592 x 1944	1080p@30fps	Y	Y
iPad 4	10/2012	5MP	2592 x 1944	1080p@30fps	Y	Y
iPad Air	10/2013	5MP	2592 x 1944	1080p@30fps	Y	Y
iPad Air 2	10/2014	8MP	3264 x 2448	1080p@30fps	Y	Y
iPad Mini	10/2012	5MP	2592 x 1944	1080p@30fps	Y	Y
iPad Mini 2	10/2013	5MP	2592 x 1944	1080p@30fps	Y	Y
iPad Mini 3	10/2014	5MP	2592 x 1944	1080p@30fps	Y	Y

Android devices

Operating system

On Android devices, Android OS 4.X, 5.X and 6.X are supported.

Devices

The following devices have been tested and supported:

Samsung Galaxy S2	HTC One M7
Samsung Galaxy S3 (GT-I9300)	HTC One M8
Samsung Galaxy S4	HTC Butterfly
Samsung Galaxy S4 Mini	LG Nexus 4
Samsung Galaxy S5 (SM-G900A, SMG900V, SM-G900W8)	LG Nexus 5
Samsung Note 2	LG Optimus G
Samsung Nexus 3	LG G4
HTC Desire	Motorola RAZR
HTC Sensation XL	Motorola Moto G
HTC OneX	

Any other devices that support the minimum requirements should be supported as well.

Supported features

Here is a list of most common devices with their hardware specifications and support for video and still capture using the TIS library.

Device family	Release	Camera	Resolution (pixels)	Video	Support still capture	Support video capture
Samsung Galaxy S6	03/2015	16MP	2988 x 5312	2160p@30fps	Y	Y
Samsung Galaxy S6 Edge	03/2015	16MP	2988 x 5312	2160p@30fps	Y	Y
Samsung Galaxy S5	02/2014	16MP	2988 x 5312	2160p@30fps	Y	Y
Samsung Galaxy S4	03/2013	13MP	4128 x 3096	1080p@30fps	Y	Y

Device family	Release	Camera	Resolution (pixels)	Video	Support still capture	Support video capture
Samsung Galaxy S3	05/2012	8MP	3264 x 2448	1080p@30fps	Y	Y
Samsung Galaxy Note 4	09/2014	16MP	2988 x 5312	2160p@30fps	Y	Y
Samsung Galaxy Note 3	09/2013	13MP	4128 x 3096	2160p@30fps	Y	Y
Samsung Galaxy Note 2	08/2012	8MP	3264 x 2448	1080p@30fps	Y	Y
Samsung Galaxy	03/2010	5MP	2592 x 1936	720p@30fps	Y	N
LG G2	08/2013	13MP	4128 x 3096	1080p@60fps	Y	Y
LG G3	05/2014	13MP	4128 x 3096	1080p@60fps	Y	Y
LG G4	04/2015	16MP	5313 x 2988	2160p@30fps	Y	Y
LG G Pad 8.0	08/2014	5MP	2592 x 1936	1080p@30fps	Y	Y
LG G Pad 8.3	03/2014	5MP	2592 x 1936	1080p@30fps	Y	Y
LG G Pad 8.3	05/2014	5MP	2592 x 1936	1080p@30fps	Y	Y
Samsung Galaxy Tab S	06/2014	8MP	3264 x 2448	1080p@30fps	Y	Y

Less common Samsung devices:

Device family	Release	Camera	Resolution (pixels)	Video	Support still capture	Support video capture
Samsung Galaxy Avant SM-G386T	07/2014	5MP	2592 x 1936	720p	Y	N
Samsung Galaxy Avant SM-G386T1	07/2014	5MP	2592 x 1936	720p	Y	N
Samsung Galaxy Light SGH-T399	10/2013	5MP	2592 x 1936	720p@30fps	Y	N
Samsung Galaxy Mega SGH-I527	04/2013	8MP	3264 x 2448	1080p@30fps	Y	Y
Samsung Galaxy Alpha SM-G850A	08/2014	12MP	4608 x 2592	2160p@30fps	Y	Y
Samsung Galaxy Exhibit SGH-T599N	05/2013	5MP	2592 x 1936	720p@30fps	Y	N
Samsung Galaxy Express SGH-I437P	10/2013	5MP	2592 x 1936	720p@30fps	Y	N
Samsung Galaxy Grand Prime Duos SM-G530AZ	10/2014	8MP	3264 x 2448	1080p@30fps	Y	Y
Samsung Galaxy Mega 2 SM-G750A	09/2014	8MP	3264 x 2448	1080p@30fps	Y	Y
Samsung Galaxy Mega SPH-L600	06/2013	8MP	3264 x 2448	1080p@30fps	Y	Y
Samsung Galaxy Express SGH-I437Z	11/2012	5MP	2592 x 1936	720p@30fps	Y	N
Samsung Galaxy Light SGH-T399	10/2013	5MP	2592 x 1936	720p@30fps	Y	N