Cameras and Media Capture

*No overview available.*

Language

* Swift
* [Objective-C](https://developer.apple.com/reference/avfoundation/cameras_and_media_capture?language=objc)

SDKs

* iOS 4.0+
* macOS 10.7+
* tvOS 10.2+
* watchOS 3.3+

Symbols

Classes

[AVCaptureAudioChannel](https://developer.apple.com/reference/avfoundation/avcaptureaudiochannel)

An object that monitors average and peak power levels for an audio channel in a capture connection.

[AVCaptureAudioDataOutput](https://developer.apple.com/reference/avfoundation/avcaptureaudiodataoutput)

A capture output that records audio and provides access to audio sample buffers as they are recorded.

[AVCaptureAudioFileOutput](https://developer.apple.com/reference/avfoundation/avcaptureaudiofileoutput)

A capture output that records audio and saves the recorded audio to a file.

[AVCaptureAudioPreviewOutput](https://developer.apple.com/reference/avfoundation/avcaptureaudiopreviewoutput)

A capture output that provides preview playback for audio being recorded in a capture session.

[AVCaptureAutoExposureBracketedStillImageSettings](https://developer.apple.com/reference/avfoundation/avcaptureautoexposurebracketedstillimagesettings)

A configuration for defining bracketed photo captures in terms of bias relative to automatic exposure.

[AVCaptureBracketedStillImageSettings](https://developer.apple.com/reference/avfoundation/avcapturebracketedstillimagesettings)

The abstract superclass for bracketed photo capture settings.

[AVCaptureConnection](https://developer.apple.com/reference/avfoundation/avcaptureconnection)

A connection between a specific pair of capture input and capture output objects in a capture session.

[AVCaptureDevice](https://developer.apple.com/reference/avfoundation/avcapturedevice)

A device that provides input (such as audio or video) for capture sessions and offers controls for hardware-specific capture features.

[AVCaptureDeviceDiscoverySession](https://developer.apple.com/reference/avfoundation/avcapturedevicediscoverysession)

A query for finding and monitoring available capture devices.

[AVCaptureDeviceFormat](https://developer.apple.com/reference/avfoundation/avcapturedeviceformat)

A set of media format and capture settings (such as video resolution and frame rate) that can be used to configure a capture device.

[AVCaptureDeviceInput](https://developer.apple.com/reference/avfoundation/avcapturedeviceinput)

A capture input that provides media from a capture device to a capture session.

[AVCaptureDeviceInputSource](https://developer.apple.com/reference/avfoundation/avcapturedeviceinputsource)

A distinct input source on a capture device.

[AVCaptureFileOutput](https://developer.apple.com/reference/avfoundation/avcapturefileoutput)

The abstract superclass for capture outputs that can record captured data to a file.

[AVCaptureInput](https://developer.apple.com/reference/avfoundation/avcaptureinput)

The abstract superclass for objects that provide input data to a capture session.

[AVCaptureInputPort](https://developer.apple.com/reference/avfoundation/avcaptureinputport)

A specific stream of data provided by a capture input.

[AVCaptureManualExposureBracketedStillImageSettings](https://developer.apple.com/reference/avfoundation/avcapturemanualexposurebracketedstillimagesettings)

A configuration for defining bracketed photo captures in terms of specific exposure and ISO values.

[AVCaptureMetadataInput](https://developer.apple.com/reference/avfoundation/avcapturemetadatainput)

A capture input for providing timed metadata to a capture session.

[AVCaptureMetadataOutput](https://developer.apple.com/reference/avfoundation/avcapturemetadataoutput)

A capture output for processing timed metadata produced by a capture session.

[AVCaptureMovieFileOutput](https://developer.apple.com/reference/avfoundation/avcapturemoviefileoutput)

A capture output that records video and audio to a QuickTime movie file.

[AVCaptureOutput](https://developer.apple.com/reference/avfoundation/avcaptureoutput)

The abstract superclass for objects that output the media recorded in a capture session.

[AVCapturePhotoBracketSettings](https://developer.apple.com/reference/avfoundation/avcapturephotobracketsettings)

A specification of the features and settings to use for a photo capture request that captures multiple images with varied settings.

[AVCapturePhotoOutput](https://developer.apple.com/reference/avfoundation/avcapturephotooutput)

A capture output for use in workflows related to still photography.

[AVCapturePhotoSettings](https://developer.apple.com/reference/avfoundation/avcapturephotosettings)

A specification of the features and settings to use for a single photo capture request.

[AVCaptureResolvedPhotoSettings](https://developer.apple.com/reference/avfoundation/avcaptureresolvedphotosettings)

A description of the features and settings in use for an in-progress or complete photo capture request.

[AVCaptureScreenInput](https://developer.apple.com/reference/avfoundation/avcapturescreeninput)

A capture input for recording from a Mac's display.

[AVCaptureSession](https://developer.apple.com/reference/avfoundation/avcapturesession)

An object that manages capture activity and coordinates the flow of data from input devices to capture outputs.

[AVCaptureStillImageOutput](https://developer.apple.com/reference/avfoundation/avcapturestillimageoutput)

A capture output for recording still images.

[AVCaptureVideoDataOutput](https://developer.apple.com/reference/avfoundation/avcapturevideodataoutput)

A capture output that records video and provides access to video frames for processing.

[AVCaptureVideoPreviewLayer](https://developer.apple.com/reference/avfoundation/avcapturevideopreviewlayer)

A Core Animation layer that can display video as it is being captured.

Protocols

[AVCaptureAudioDataOutputSampleBufferDelegate](https://developer.apple.com/reference/avfoundation/avcaptureaudiodataoutputsamplebufferdelegate)

Methods for receiving audio sample data from an audio capture.

[AVCaptureFileOutputDelegate](https://developer.apple.com/reference/avfoundation/avcapturefileoutputdelegate)

Methods for monitoring or controlling the output of a media file capture.

[AVCaptureFileOutputRecordingDelegate](https://developer.apple.com/reference/avfoundation/avcapturefileoutputrecordingdelegate)

Methods for responding to events that occur while recording captured media to a file.

[AVCaptureMetadataOutputObjectsDelegate](https://developer.apple.com/reference/avfoundation/avcapturemetadataoutputobjectsdelegate)

Methods for receiving metadata produced by a metadata capture output.

[AVCapturePhotoCaptureDelegate](https://developer.apple.com/reference/avfoundation/avcapturephotocapturedelegate)

Methods for monitoring progress and receiving results from a photo capture output.

[AVCaptureVideoDataOutputSampleBufferDelegate](https://developer.apple.com/reference/avfoundation/avcapturevideodataoutputsamplebufferdelegate)

Methods for receiving sample buffers from and monitoring the status of a video data output.

Constants

[AV Foundation Error Constants](https://developer.apple.com/reference/avfoundation/cameras_and_media_capture/av_foundation_error_constants)

Structures

[AVContentKeyRequestRetryReason](https://developer.apple.com/reference/avfoundation/avcontentkeyrequestretryreason)[AVContentKeySystem](https://developer.apple.com/reference/avfoundation/avcontentkeysystem)[AVMovieWritingOptions](https://developer.apple.com/reference/avfoundation/avmoviewritingoptions)