

[AVFoundation](#) / [AVCaptureFileOutput](#)

Class

AVCaptureFileOutput

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

iOS 4.0+ | iPadOS 4.0+ | Mac Catalyst 14.0+ | macOS 10.7+ | tvOS 17.0+

```
class AVCaptureFileOutput
```

Topics

Setting file output properties

`var delegate: (any AVCaptureFileOutputDelegate)?`

The delegate object for the capture file output.

`var maxRecordedDuration: CMTime`

The longest duration allowed for the recording.

`var maxRecordedFileSize: Int64`

The maximum size, in bytes, of the data that should be recorded by the receiver.

`var minFreeDiskSpaceLimit: Int64`

The minimum amount of free space, in bytes, required for recording to continue on a given volume.

`var outputFileURL: URL?`

The URL to which output is directed.

`var recordedDuration: CMTime`

Indicates the duration of the media recorded to the current output file.

```
var recordedFileSize: Int64
```

Indicates the size, in bytes, of the data recorded to the current output file.

```
var isRecording: Bool
```

Indicates whether recording is in progress.

```
var isRecordingPaused: Bool
```

Indicates whether recording to the current output file is paused.

Managing recording

```
func startRecording(to: URL, recordingDelegate: any AVCaptureFileOutputRecordingDelegate)
```

Starts recording media to the specified output URL.

```
func stopRecording()
```

Tells the receiver to stop recording to the current file.

```
func pauseRecording()
```

Pauses recording to the current output file.

```
func resumeRecording()
```

Resumes recording to the current output file after it was previously paused using [pauseRecording\(\)](#).

Relationships

Inherits From

AVCaptureOutput

Inherited By

AVCaptureAudioFileOutput, AVCaptureMovieFileOutput

Conforms To

CVarArg

CustomDebugStringConvertible
CustomStringConvertible
Equatable
Hashable
NSObjectProtocol

See Also

File capture

- Recording movies in alternative formats
Change the default format for capturing movie files.

`class AVCaptureMovieFileOutput`

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

`class AVCaptureAudioFileOutput`

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

`protocol AVCaptureFileOutputDelegate`

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

`protocol AVCaptureFileOutputRecordingDelegate`

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