Class

# AVCaptureMovieFileOutput

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

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

```
class AVCaptureMovieFileOutput
```

## Mentioned in

- Recording movies in alternative formats
- Setting up a capture session

## Overview

A movie file output provides a complete file recording interface for writing media data to QuickTime movie files. It includes the ability to configure QuickTime-specific options, including writing metadata collections to each file, specify media encoding options for each track, and specify the interval at which it writes movie fragments.

## Topics

### Creating a movie file output

`init()`

Creates a new of movie file output.

## Configuring movies

`var movieFragmentInterval: CMTime`

The number of seconds of output that are written per fragment.

`var metadata: [AVMetadataItem]?`

The metadata for the output file.

## Managing output settings

`func supportedOutputSettingsKeys(for: AVCaptureConnection) -> [String]`

Returns a list of supported keys to use in the output settings dictionary.

`func outputSettings(for: AVCaptureConnection) -> [String : Any]`

Returns the settings the output uses to encode media from the specified connection.

`func setOutputSettings([String : Any]?, for: AVCaptureConnection)`

Sets the options the output uses to encode media from the given connection while recording.

`var availableVideoCodecTypes: [AVVideoCodecType]`

The video codecs types the output supports for recording movie files.

## Enabling spatial capture

`var isSpatialVideoCaptureSupported: Bool`

A Boolean value that indicates whether a movie file output supports capturing spatial videos.

`var isSpatialVideoCaptureEnabled: Bool`

A Boolean value that indicates whether a movie file output captures spatial videos.

## Setting orientation

`func recordsVideoOrientationAndMirroringChangesAsMetadataTrack(for: AVCaptureConnection) -> Bool`

A Boolean value that indicates whether the movie file output records video orientation and mirroring information as a metadata track.

`func setRecordsVideoOrientationAndMirroringChangesAsMetadataTrack(Bool, for: AVCaptureConnection)`

Sets whether the movie file output creates a timed metadata track to capture changes to the connection's video orientation and mirroring.

### Restricting camera switching

```
var isPrimaryConstituentDeviceSwitchingBehaviorForRecordingEnabled: Bool
```

A Boolean value that indicates whether to restrict constituent device switching behavior during recording.

```
func setPrimaryConstituentDeviceSwitchingBehaviorForRecording(AVCaptureDevice.PrimaryConstituentDeviceSwitchingBehavior, restrictedSwitchingBehaviorConditions: AVCaptureDevice.PrimaryConstituentDeviceRestrictedSwitchingBehaviorConditions)
```

Sets the camera switching behavior to use during recording.

```
var primaryConstituentDeviceSwitchingBehaviorForRecording: AVCaptureDevice.PrimaryConstituentDeviceSwitchingBehavior
```

The camera switching behavior to use for recording.

```
var primaryConstituentDeviceRestrictedSwitchingBehaviorConditionsForRecording: AVCaptureDevice.PrimaryConstituentDeviceRestrictedSwitchingBehaviorConditions
```

The conditions during which camera switching may occur while recording.

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## Relationships

### Inherits From

`AVCaptureFileOutput`

### Conforms To

`CVarArg`
`CustomDebugStringConvertible`
`CustomStringConvertible`
`Equatable`
`Hashable`

`NSObjectProtocol`

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# See Also

## File capture

Recording movies in alternative formats

Change the default format for capturing movie files.

`class` `AVCaptureAudioFileOutput`

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

`class` `AVCaptureFileOutput`

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