

[AVFoundation](#) / [AVCaptureSpatialAudioMetadataSampleGenerator](#)

## Class

# AVCaptureSpatialAudioMetadataSampleGenerator

An interface for generating a spatial audio timed metadata sample.

iOS 26.0+ | iPadOS 26.0+

```
class AVCaptureSpatialAudioMetadataSampleGenerator
```

## Topics

### Analyzing audio samples

```
func analyzeAudioSample(CMSampleBuffer) -> OSStatus
```

Analyzes the provided audio sample buffer for its contribution to the spatial audio timed metadata value.

```
func newTimedMetadataSampleBufferAndResetAnalyzer() -> Unmanaged<CMSampleBuffer>?
```

Creates a sample buffer containing a spatial audio timed metadata sample computed from all analyzed audio buffers, and resets the analyzer to its initial state.

```
var timedMetadataSampleBufferFormatDescription: CMFormatDescription
```

Returns the format description of the sample buffer returned from the [newTimedMetadataSampleBufferAndResetAnalyzer\(\)](#) method.

```
func resetAnalyzer()
```

Calling this method resets the analyzer to its initial state so that a new run of audio sample buffers can be analyzed.

---

## Relationships

### Inherits From

`NSObject`

### Conforms To

`CVarArg`

`CustomDebugStringConvertible`

`CustomStringConvertible`

`Equatable`

`Hashable`

`NSObjectProtocol`

---

## See Also

### Stream capture



Capturing Spatial Audio in your iOS app

Enhance your app's audio recording capabilities by supporting Spatial Audio capture.

`class` `AVCaptureVideoDataOutput`

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

`class` `AVCaptureAudioDataOutput`

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