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Class

# VTMotionBlurParameters

This object contains both input and output parameters necessary to run the motion blur processor on a frame.

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+ | macOS 15.4+

```
class VTMotionBlurParameters
```

## Overview

This object is used in the `processWithParameters` call of the `VTFrameProcessor` class. The output parameter is a `destinationFrame` where the output frame is returned as a `VTFrameProcessorFrame` back to the caller function once `processWithParameters` completes.

The parameters within `VTMotionBlurParameters` are frame level parameters.

## Topics

### Creating a parameters object

```
init?(sourceFrame: VTFrameProcessorFrame, nextFrame: VTFrameProcessorFrame?, previousFrame: VTFrameProcessorFrame?, nextOpticalFlow: VTFrameProcessorOpticalFlow?, previousOpticalFlow: VTFrameProcessorOpticalFlow?, motionBlurStrength: Int, submissionMode: VTMotionBlurParametersSubmissionMode, destinationFrame: VTFrameProcessorFrame)
```

### Inspecting the parameters

```
var sourceFrame: VTFrameProcessorFrame
```

The current source frame.

```
var nextFrame: VTFrameProcessorFrame?
```

The next source frame in presentation time order.

```
var previousFrame: VTFrameProcessorFrame?
```

The previous source frame in presentation time order.

```
var motionBlurStrength: Int
```

A value that indicates the strength of blur to apply.

```
var nextOpticalFlow: VTFrameProcessorOpticalFlow?
```

Optional optical flow object that contains forward and backward optical flow with the next frame.

```
var previousOpticalFlow: VTFrameProcessorOpticalFlow?
```

Optional optical flow object that contains forward and backward optical flow with the previous frame.

```
var submissionMode: VTMotionBlurParameters.SubmissionMode
```

A value describing the processing request in a parameters submission object.

```
enum SubmissionMode
```

A value describing the processing request in a parameters submission object.

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## Relationships

### Inherits From

NSObject

### Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable

```
NSObjectProtocol  
VTFrameProcessorParameters
```

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## See Also

### Motion blur

```
class VTMotionBlurConfiguration
```

A configuration object to enable motion blur on a frame processing session.