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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: VTMotionBlurParameters.SubmissionMode, 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.