

[AVFoundation](#) / [Capture setup](#) / AVMultiCamPiP: Capturing from Multiple Cameras

## Sample Code

# AVMultiCamPiP: Capturing from Multiple Cameras

Simultaneously record the output from the front and back cameras into a single movie file by using a multi-camera capture session.

Download

iOS 15.0+ | iPadOS 15.0+ | Xcode 16.0+

## Overview

### Note

This sample code project is associated with WWDC 2019 session [225: Advances in Camera Capture & Portrait Segmentation](#).

## Configure the sample code project

You must run this sample code on one of these devices:

- An iPhone with an A12 or later processor
- An iPad Pro with an A12X or later processor

## See Also

# Capture sessions



## Setting up a capture session

Configure input devices, output media, preview views, and basic settings before capturing photos or video.



## Accessing the camera while multitasking on iPad

Operate the camera in Split View, Slide Over, Picture in Picture, and Stage Manager modes.



## AVCam: Building a camera app

Capture photos and record video using the front and rear iPhone and iPad cameras.



## Capturing Cinematic video

Capture video with an adjustable depth of field and focus points.



## AVCamBarcode: detecting barcodes and faces

Identify machine readable codes or faces by using the camera.

### `class AVCaptureSession`

An object that configures capture behavior and coordinates the flow of data from input devices to capture outputs.

### `class AVCaptureMultiCamSession`

A capture session that supports simultaneous capture from multiple inputs of the same media type.

### `class AVCaptureInput`

An abstract superclass for objects that provide input data to a capture session.

### `class AVCaptureOutput`

An abstract superclass for objects that provide media output destinations for a capture session.

### `class AVCaptureConnection`

An object that represents a connection from a capture input to a capture output.