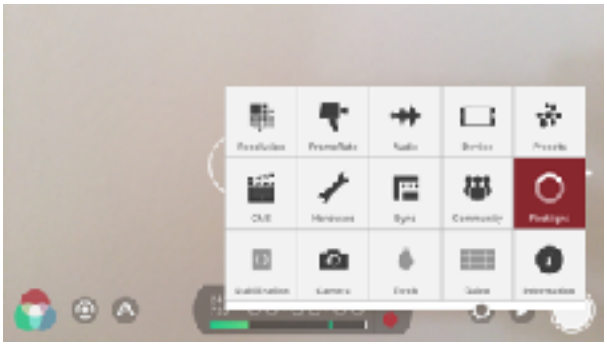
FiLMiC Pro

STEP BY STEP

Open FiLMiC Pro app on smartphone

Tap the settings icon (cog, bottom right of screen) to bring up the settings menu



1. Start with **RESOLUTION**
    a. Crop Source to Overlay: when enabled (by choosing from 17.9 all the way across to 2.39:1), black bars will indicate the recorded area on the screen. This can be useful when making a video for Instagram where it's recommended to maximise the vertical dimensions of a phone to achieve the greatest real estate on the grid (e.g. 1:1 or 4:3). Otherwise, the full 16:9 frame will be recorded as default.
    b. Video Resolution: most videos are recorded at HD 1080p.
    c. Video Quality: choose either FiLMiC Quality or FiLMiC Extreme.

2. Tap the screen (outside the box) to return to the settings menu.

3. Next go to **FRAMERATE**
    a. The frame rate selector at the top right of the screen (two boxes) allows you to switch between Standard and Timelapse modes.
    b. Numbers across the top display the frame rate as supported by your device. In Standard mode, 24 is the most commonly used settings. Once a value is chosen, the Capture and Playback frame rates will adjust accordingly.
    c. Alternatively, the Timelapse mode takes video images based on seconds per frame rather than frames per second. This is helpful when recording a sunset/sunrise, or a busy period in the office/workshop/shop.
    d. Auto Shutter: some fluorescent or LED lights can create a strobing or flickering effect in a video. Here, use the arrows to choose 50Hz Shutter.

4. Return to the settings menu.

5. Tap **AUDIO**
    a. Microphone selection: if using an iPhone microphone, choose the option closest to the sound being captured (i.e. iPhone Mic (Bottom), iPhone Mic (Front), iPhone Mic (Back)). With Android phones, Camera Microphone will likely be the only choice. If you plug in a microphone, the External Microphone will automatically be used as the primary audio input.
    b. Audio Format: depending on smartphone, choose from PCM, AIFF or AAC.
    c. Audio Sampling Rate: usually set at 48kHz.
    d. Video Only: enable if filming without audio.
    e. Automatic Gain Correction: turn on when the smartphone's internal microphone is being used or with an external microphone without gain level adjustment.
    f. Voice Processing: when enabled this setting helps isolate the human voice.
    g. Bluetooth Audio Monitoring: there is no button in FiLMiC Pro for this function, however you can connect Bluetooth headphones using the settings on your smartphone under the Bluetooth heading should you wish to monitor the audio while recording.

6. Return to the settings menu.

7. Tap **DEVICE**
    a. Save to Camera Roll: enable this option for all footage recorded in FiLMiC Pro to be saved in the smartphone's camera roll. By default,

the videos will automatically save to the FiLMiC Library where file names will remain intact. Note:
    a.i. By saving to the Camera Roll, the file names become a string of random characters.
    a.ii. High speed frame rates (in excess of 60fps) should not be saved or copied to the Camera Roll (it will retain the frame rate correctly, but on sharing, the Camera Roll will often retime the footage to a different frame rate).
    a.iii. It is not recommended to enable Camera Roll if you are using iCloud Photo Library as it can lead to data loss.
b. Orientation Lock: enable to lock the current orientation (either landscape or vertical) of the camera and controls.
c. Preview Active: this option controls the video preview display on the screen. When used in conjunction with Tap to Hide Interface, the entire device screen can be blacked out.
d. Tap to Hide Interface: this setting hides the on-screen controls with a tap to the screen. It's useful for monitoring purposes, if mirroring the device's screen display to an external screen. Enable, then tap the screen to hide the controls when required.
e. Volume Keys Trigger Recording: turn this default option off if you do not wish to use the volume keys on your smartphone as an on/off button for recording in FiLMiC Pro.

8. Return to the settings menu.

9. Tap (or not!) **STABILIZATION**
    a. This option will depend on your own shooting preference, the activity being recorded, as well as your smartphone features.
    b. It's worth test recording some video with and without Stabilization to compare for smooth, shake and bounce.
    c. Considerations include - are you moving around while recording, is the phone hand held?

10. Return to the settings menu.

11. Tap **CAMERA**:
    a. These options will be determined by your device. Most likely, by tapping Camera, the camera on your smartphone will switch from a back facing to a front facing (selfie) camera.

12. Return to the settings menu.

13. Tap **PRESETS**:

a. If you're happy with the settings you've chosen so far, and you think you might use them again, you can tap Save Current Settings as Preset. You will then be prompted to name the preset.
b. Presets for all features on the app may be saved to cloud storage. Go to Settings – Sync (and sign up).

14. Return to the settings menu.

15. Note the moving **AUDIO BAR(S)** that run along the bottom of the screen or down the right side. They are useful to check that you are actually recording audio, and if that audio is too loud or too quiet. To adjust the **VOLUME**, find the small white vertical line just below the time display. It will likely be on the right side (for maximum volume), but by sliding the line towards the left, the volume will reduce.

16. The small white horizontal line to the right of the screen is the **ZOOM** slide. Drag it up to zoom in on a shot and down to zoom out.

17. The large white button on the bottom right of the screen is the **RECORD** button. Tap to turn it red (recording) and tap again (turning white) to stop recording.

18. The **PLAY** button (located beside the record button) will give you to access your previously recorded videos. By default the app will encode files with a date/time stamp of when the clip was recorded, e.g. 09232020_162836.mov

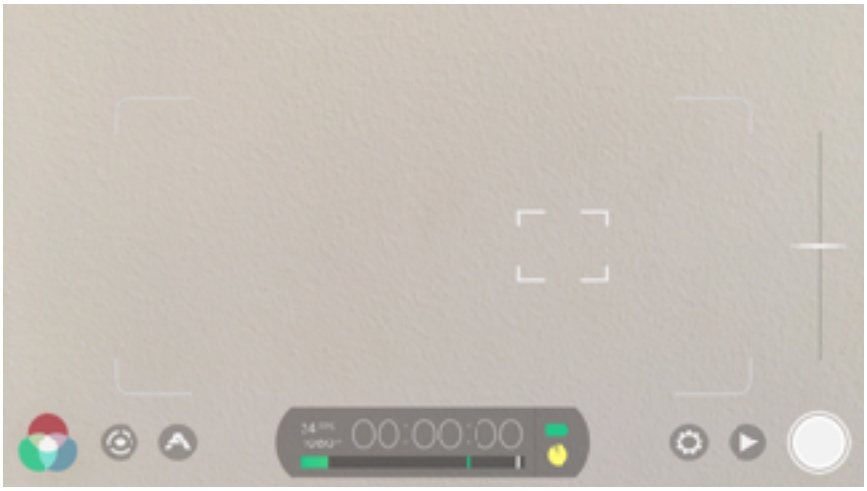
This means the video was recorded on 23rd September 2020 at 16.28. Should you wish to change the file-naming properties before you start recording, go to Settings – CMS – Content Management.

19. **STORAGE** indictor: this circle (to the right of the time display) will tell you how much space you have to record on your device. As you can see, I'm in the red and running very low!

20. **BATTERY** indicator: located under the storage indicator. Another vital sign!

21. **TIME DISPLAY**: this will allow you to monitor clip length in hours:minutes:seconds. Another feature here allows for tapping of the time display to bring up three different imaging histograms (to identify if your video exposure is evenly balanced).

22. The FPS (frames per second) and resolution you set previously in FRAME RATE and RESOLUTION are visible to the left of the time display.



23. **AUTO FOCUS** and **EXPOSURE**: double tapping the circle in the middle of your screen will expand it to a larger square-like shape, this is the camera's auto exposure. Tapping the smaller square (increasing its size a little also) will give you auto focus. When you're happy with the image being captured on screen, tap the squares once (turning red) to lock your preferences. By tapping again (to turn white), the camera will unlock. If you wish to return to having manual control over the focus and exposure (circle and small square), tap the squares once more.

24. The **A** button (bottom left of the screen), once tapped, will enable live analytics via the Zebra Stripes, Clipping, False Colour and Focus Peaking buttons (across the top of the screen). These overlays can help set the focus and exposure for your video. Tap A again to turn off.
    a. Zebra Stripes: red forward stripes indicate areas of overexposure, while blue backward stripes show up underexposed areas.
    b. Clipping: shows up areas of exposure that are 'clipped', indicating complete data loss. Red is overexposure clipping and blue is underexposure clipping.
    c. False Colour: gives a complete picture of the video's exposure profile. Remember, green is good, whereas red indicates overexposure and blue indicates areas on underexposure.
    d. Focus Peaking: focal accuracy on a per pixel level. Here, light blue indicates areas of focus and green indicates the target is in critical focus.

25. For more comprehensive focus and exposure, and the ability to 'dial in' settings, tap the circle within a circle icon (bottom left) to display two **ARCS** (holding down the focus and exposure squares on the screen will also call up these controls, as will 'dragging' in from each side). The arc on the right controls focus and zoom, while the arc on the left controls exposure.
    a. Left arc: adjust the exposure by moving up and down the arc. This will change both the ISO (measurement of how sensitive your camera is to the available light) as well as shutter speed (usually set at double the number of frames per second, e.g. if recording at 24fps, the shutter speed should be 1/48).Tapping either number, once you've found your preferred setting, will lock that value.
    b. Right arc: adjust the focus and zoom by tapping on either and moving up and down the arc.

26. Tap the screen to remove the arcs.

27. Tap the imaging panel icon (three overlapping circles, bottom left of the screen) to adjust the **WHITE BALANCE**. This control tells the camera how to balance the colours red, green and blue.
    a. The default setting is AWB (Auto White Balance) which will be blue in colour. This means it will continue to respond to colour changes (and white balance) when you are recording. Note: this may be distracting to viewers.
    b. When AWB is tapped to turn orange, this will auto-lock the white balance value on record.
    c. It is recommended to set the white balance manually for best results. To do this, use a white sheet of paper (non-reflective) in the same lighting as your subject. Tap AWB until it turns blue. Next, use the zoom control to ensure the white card fills as much of the screen as possible. Then tap AWB until it turns red and locks your value. It's

possible to save this preset by choosing A or B (beside AWB), a useful tool if returning to the same space for further filming under constant lighting conditions (e.g. studio).

d. There are also white balance presets available for specific lighting conditions, e.g. sunlight, cloudy. Tap to enable should it suit your shoot.

And lastly!

28. To enable the Rule of Thirds, tap Settings – Guide. The overlay grid will help you line up your horizons and get your framing just right.