# CameraX: Surface had no valid native window on version 1.0.0.beta02



Assigned Bug P4 + Add Hotlist

STATUS UPDATE No update yet. Edit

DESCRIPTION je...@gmail.com created issue #1 Apr 10, 2020 07:01PM

CAMERAX VERSION (ex - 1.0.0-beta02)

CAMERA APPLICATION NAME AND VERSION: (7.3.021.300172532)

ANDROID OS BUILD NUMBER: (QQ2A.200305.003)

DEVICE NAME: (Pixel 4 xl)

DESCRIPTION:
When fragment goes to onStop and onResume lifecycles crash is throwing, but not every time, sometimes it crashes at first onStop -> onResume sometimes it needs 3 time repeat of this lifecycle

this is error log

```
E/Legacy-CameraDevice-JNI: getNativeWindow: Surface had no valid native window.
E/Legacy-CameraDevice-JNI: LegacyCameraDevice_nativeDetectSurfaceDimens: Could not retrieve native window from surface.
E/AndroidRuntime: FATAL EXCEPTION: CameraX-
java.lang.RuntimeException: java.lang.IllegalArgumentException: Surface was abandoned
    at androidx.camera.camera2.internal.Camera2CameraImpl$3.onFailure(Camera2CameraImpl.java:869)
    at androidx.camera.core.impl.utils.futures.Futures$CallbackListener.run(Futures.java:338)
    at android.os.Handler.handleCallback(Handler.java:883)
    at android.os.Handler.dispatchMessage(Handler.java:100)
    at android.os.Looper.loop(Looper.java:214)
    at android.os.HandlerThread.run(HandlerThread.java:67)
  Caused by: java.lang.IllegalArgumentException: Surface was abandoned
    at android.hardware.camera2.utils.SurfaceUtils.getSurfaceSize(SurfaceUtils.java:86)
    at android.hardware.camera2.params.OutputConfiguration.<init>(OutputConfiguration.java:261)
    at android.hardware.camera2.params.OutputConfiguration.<init>(OutputConfiguration.java:146)
    at androidx.camera.camera2.internal.compat.params.OutputConfigurationCompatApi28Impl.<init>
(OutputConfigurationCompatApi28Impl.java:34)
    at androidx.camera.camera2.internal.compat.params.OutputConfigurationCompat.<init>
(OutputConfigurationCompat.java:51)
    at androidx.camera.camera2.internal.CaptureSession.openCaptureSessionLocked(CaptureSession.java:373)
    at
androidx.camera.camera2.internal.CaptureSession.lambda$openCaptureSession$2$CaptureSession(CaptureSession.java:281)
    at androidx.camera.camera2.internal.-$$Lambda$CaptureSession$bwwGuGuBhJx-
fgB4Br9Wswwme0U.attachCompleter(Unknown Source:8)
    at androidx.concurrent.futures.CallbackToFutureAdapter.getFuture(CallbackToFutureAdapter.java:102)
    at androidx.camera.camera2.internal.CaptureSession.openCaptureSession(CaptureSession.java:278)
    at androidx.camera.camera2.internal.CaptureSession.lambda$open$0$CaptureSession(CaptureSession.java:242)
    at androidx.camera.camera2.internal.-$$Lambda$CaptureSession$2IbSQd39wMeo2dJgmFG1rvePLoM.apply(Unknown
Source:8)
    at androidx.camera.core.impl.utils.futures.ChainingListenableFuture.run(ChainingListenableFuture.java:201)
    at android.os.Handler.handleCallback(Handler.java:883)
    at android.os.Handler.dispatchMessage(Handler.java:100)
    at android.os.Looper.loop(Looper.java:214)
    at android.os.HandlerThread.run(HandlerThread.java:67)
  Caused by: android.hardware.camera2.legacy.LegacyExceptionUtils$BufferQueueAbandonedException
    at android.hardware.camera2.legacy.LegacyExceptionUtils.throwOnError(LegacyExceptionUtils.java:73)
    at android.hardware.camera2.legacy.LegacyCameraDevice.getSurfaceSize(LegacyCameraDevice.java:631)
    at android.hardware.camera2.utils.SurfaceUtils.getSurfaceSize(SurfaceUtils.java:84)
    at android.hardware.camera2.params.OutputConfiguration.<init>(OutputConfiguration.java:261)
    at android.hardware.camera2.params.OutputConfiguration.<init>(OutputConfiguration.java:146)
    at androidx.camera.camera2.internal.compat.params.OutputConfigurationCompatApi28Impl.<init>
(OutputConfigurationCompatApi28Impl.java:34)
    at androidx.camera.camera2.internal.compat.params.OutputConfigurationCompat.<init>
(OutputConfigurationCompat.java:51)
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androidx.camera.camera2.internal.CaptureSession.lambda$openCaptureSession$2$CaptureSession(CaptureSession.java:281)
    at androidx.camera.camera2.internal.-$$Lambda$CaptureSession$bwwGuGuBhJx-
fgB4Br9Wswwme0U.attachCompleter(Unknown Source:8)
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    at androidx.camera.camera2.internal.-$$Lambda$CaptureSession$2IbSQd39wMeo2dJgmFG1rvePLoM.apply(Unknown
Source:8)
```

| | |
|---|---|
| Reporter | je...@gmail.com |
| Type | Bug |
| Priority | P4 |
| Severity | S4 |
| Status | Assigned |
| Access | Default access View |
| Expanded Access | |
| Assignee | pe...@photomath.com |
| Verifier | -- |
| Collaborators | |
| CC | ca...@google.com<br>er...@google.com<br>hu...@google.com<br>je...@gmail.com<br>pe...@photomath.com<br>... and 3 more (show all) |
| AOSP ID | -- |
| Estimate | -- |
| InReview | -- |
| Pending | -- |
| Targeted To | -- |
| TF Estimate | -- |
| Found In | -- |
| Targeted To | -- |
| Verified In | -- |
| In Prod | |

Show 1 additional field

```
    at androidx.camera.core.impl.utils.futures.ChainingListenableFuture.run(ChainingListenableFuture.java:201)
    at android.os.Handler.handleCallback(Handler.java:883)
    at android.os.Handler.dispatchMessage(Handler.java:100)
    at android.os.Looper.loop(Looper.java:214)
    at android.os.HandlerThread.run(HandlerThread.java:67)
```

STEPS TO REPRODUCE:
1. open camera fragment
2. minimize application
3. open application

OBSERVED RESULTS: crash

EXPECTED RESULTS: continue camera

REPRODUCIBILITY: (5 of 5, 1 of 100, etc)

ADDITIONAL INFORMATION:
this happens only version 1.0.0.beta02 if I downgrade version to 1.0.0.beta01 than it works fine

CODE FRAGMENTS (this will help us troubleshoot your issues):

```
//I'm calling this method inside onViewCreated()

fun initCamera() {
   mainExecutor = ContextCompat.getMainExecutor(context)
   cameraExecutor = Executors.newSingleThreadExecutor()
   previewView.post {
     displayId = previewView.display.displayId
     bindCameraUseCases()
   }
 }

  fun onDestroyView(){
   cameraExecutor.shutdown()
  }
```

```
/** Declare and bind preview, capture and analysis use cases */
  private fun bindCameraUseCases() {

    // Get screen metrics used to setup camera for full screen resolution
    val metrics = DisplayMetrics().also { previewView.display.getRealMetrics(it) }
    val screenAspectRatio = aspectRatio(metrics.widthPixels, metrics.heightPixels)
    val rotation = previewView.display.rotation

    // Bind the cameraProvider to the LifeCycleOwner
    val cameraSelector = CameraSelector.Builder().requireLensFacing(lensFacing).build()
    val cameraProviderFuture = ProcessCameraProvider.getInstance(context)
    cameraProviderFuture.addListener(Runnable {
      val cameraProvider: ProcessCameraProvider = cameraProviderFuture.get()
      // Preview
      preview = Preview.Builder()
        .setTargetName("Preview")
        .setTargetAspectRatio(screenAspectRatio)
        .setTargetRotation(rotation)
        .build()

      capture = ImageCapture.Builder()
        .setTargetName("Capture")
        .setCaptureMode(ImageCapture.CAPTURE_MODE_MINIMIZE_LATENCY)
        .setTargetAspectRatio(screenAspectRatio)
        .setTargetRotation(rotation)
        .build()

      cameraProvider.unbindAll()


      try {
        // A variable number of use-cases can be passed here.
        val camera = cameraProvider.bindToLifecycle(
          context as LifecycleOwner, cameraSelector, preview, capture
        )

        cameraControl = camera.cameraControl
        cameraInfo = camera.cameraInfo
        preview?.setSurfaceProvider(previewView.createSurfaceProvider(cameraInfo))
      } catch (e: Exception) {
        Log.e(LOG_TAG, "" + e.message)
      }

    }, mainExecutor)
  }
```

✓ Mentioned issues (1) ✓ Links (1) Hide all

**Mentioned issues (1)**

-- -- "https://issuetracker.google.com/182937017" er...@ #5, bu...@ #7

**Links (1)**

"https://developer.android.com/jetpack/androidx/releases/camera#camera-... " hu...@ #3

COMMENTS All comments ↓ Oldest first

**g....@rosoftlab.net** <g....@rosoftlab.net> #2 Apr 13, 2020 06:32AM

I have the same issue on Huawei MediaPad M5, Android: 8.0.0. I'm able to reproduce this also with camera sample

**hu...@google.com** <hu...@google.com> #3 Apr 14, 2020 02:18AM

*Marked as fixed.*

Hi,

This is a know issue in camera-view version 1.0.0-alpha09 (see release notes/known issues). This issue should be fixed in the next release of camera-view. For the time being and until you upgrade, you can explicitly set PreviewView to use a textureView implementation by calling

```
// Make sure to set the implementation mode before attaching the previewView and preview use case
previewView.preferredImplementationMode = ImplementationMode.TEXTURE_VIEW

// Create a surfaceProvider from PreviewView, and pass it to the preview use case
val surfaceProvider = previewView.createSurfaceProvider(camera.cameraInfo)
preview.setSurfaceProvider(surfaceProvider)
```

**[Deleted User]** <[Deleted User]> #4 Mar 16, 2021 06:49PM

Hello sir,

This issue is appearing on an android 5 with implementationMode set to COMPATIBLE (TextureView) for this particular line -
android.hardware.camera2.legacy.LegacyCameraDevice.nativeSetSurfaceFormat,
and It is frequent on this particular device.

CameraX - 1.0.0-rc03
Camera view - 1.0.0-alpha22

Device name and specs -

Device Brand: OPPO
Model: A37f
Orientation: Portrait
RAM free: 545.25 MB
Disk free: 700.12 MB
Operating System Version: 5.1.1
Orientation: Portrait
Rooted: No
Crash Date: Mar 15, 2021, 2:28:56 PM

Trace:

Fatal Exception: java.lang.IllegalArgumentException
Surface had no valid native window.

Fatal Exception: java.lang.IllegalArgumentException: Surface had no valid native window.
    at android.hardware.camera2.legacy.LegacyCameraDevice.nativeSetSurfaceFormat(LegacyCameraDevice.java)
    at android.hardware.camera2.legacy.LegacyCameraDevice.setSurfaceFormat(LegacyCameraDevice.java:591)
    at
android.hardware.camera2.legacy.RequestThreadManager.resetJpegSurfaceFormats(RequestThreadManager.java:505)
    at android.hardware.camera2.legacy.RequestThreadManager.access$2300(RequestThreadManager.java:63)
    at android.hardware.camera2.legacy.RequestThreadManager$5.handleMessage(RequestThreadManager.java:915)
    at android.os.Handler.dispatchMessage(Handler.java:98)
    at android.os.Looper.loop(Looper.java:160)
    at android.os.HandlerThread.run(HandlerThread.java:61)

We couldn't reproduce this as we didn't have the device. Please help us understanding what went wrong or any temporary workaround that we can do.

**er...@google.com** <er...@google.com> Mar 17, 2021 07:22AM

*Status: Assigned (reopened)*

**er...@google.com** <er...@google.com> #5 Mar 17, 2021 08:33AM

*Reassigned to bu...@google.com.*

Bugjuggler: http://b/182937017 is fixed

**er...@google.com** <er...@google.com> #6 Mar 17, 2021 08:34AM

Hello debdeep.ganguly,

We will see if we can figure out what the root cause is after we acquire a device. Thanks

**bu...@google.com** <bu...@google.com> #7 Mar 17, 2021 08:38AM

*Accepted by bu...@google.com.*

Hi. I've received your bug and will wait for b/182937017 to be fixed and then assign the bug to camerax-bugs@google.com.

**vi...@gmail.com** <vi...@gmail.com> #8 Mar 19, 2021 06:52AM

Fatal Exception: java.lang.IllegalArgumentException
Surface had no valid native window.

Android 5.1.1 Samsung Galaxy J3(2016)

android.hardware.camera2.legacy.LegacyCameraDevice.nativeSetSurfaceFormat (LegacyCameraDevice.java)
android.hardware.camera2.legacy.LegacyCameraDevice.setSurfaceFormat (LegacyCameraDevice.java:591)
android.hardware.camera2.legacy.RequestThreadManager.resetJpegSurfaceFormats (RequestThreadManager.java:503)
android.hardware.camera2.legacy.RequestThreadManager.access$2300 (RequestThreadManager.java:63)
android.hardware.camera2.legacy.RequestThreadManager$5.handleMessage (RequestThreadManager.java:913)
android.os.Handler.dispatchMessage (Handler.java:98)
android.os.Looper.loop (Looper.java:145)
android.os.HandlerThread.run (HandlerThread.java:61)

Android 5.1.1 Oppo A37f

android.hardware.camera2.legacy.LegacyCameraDevice.nativeSetSurfaceFormat (LegacyCameraDevice.java)
android.hardware.camera2.legacy.LegacyCameraDevice.setSurfaceFormat (LegacyCameraDevice.java:591)
android.hardware.camera2.legacy.RequestThreadManager.resetJpegSurfaceFormats (RequestThreadManager.java:505)
android.hardware.camera2.legacy.RequestThreadManager.access$2300 (RequestThreadManager.java:63)
android.hardware.camera2.legacy.RequestThreadManager$5.handleMessage (RequestThreadManager.java:915)
android.os.Handler.dispatchMessage (Handler.java:98)
android.os.Looper.loop (Looper.java:160)
android.os.HandlerThread.run (HandlerThread.java:61)

Android 5.1 Oppo CPH1605

android.hardware.camera2.legacy.LegacyCameraDevice.nativeSetSurfaceFormat (LegacyCameraDevice.java)
android.hardware.camera2.legacy.LegacyCameraDevice.setSurfaceFormat (LegacyCameraDevice.java:591)
android.hardware.camera2.legacy.RequestThreadManager.resetJpegSurfaceFormats (RequestThreadManager.java:503)
android.hardware.camera2.legacy.RequestThreadManager.access$2300 (RequestThreadManager.java:63)
android.hardware.camera2.legacy.RequestThreadManager$5.handleMessage (RequestThreadManager.java:913)
android.os.Handler.dispatchMessage (Handler.java:98)
android.os.Looper.loop (Looper.java:145)
android.os.HandlerThread.run (HandlerThread.java:61)

**er...@google.com** <er...@google.com> Mar 20, 2021 03:56AM

*Assigned to xi...@google.com.*

**pe...@photomath.com** <pe...@photomath.com> #9 Jun 20, 2022 06:10PM

This issue is still present, it seems it is mostly affecting Android 5 devices. Are there any workarounds?

**xi...@google.com** <xi...@google.com> Jul 29, 2022 02:30AM

*Accepted by xi...@google.com.*

**xi...@google.com** <xi...@google.com> Aug 2, 2022 11:47PM

*Assigned to xi...@google.com.*

**xi...@google.com** <xi...@google.com> #10 Aug 16, 2022 04:48AM

*Assigned to je...@gmail.com.*

I can't repro it with Samsung Galaxy J3(2016) and the latest CameraX test app.

Device model: SM-J320FN Android version: 5.1.1

Could you try the following things?

- upgrade to the latest CameraX version 1.2 alpha.
- If you can still repro the issue with CameraX 1.2, could you see if you can repro the issue with our test app? APK attached.

**camera-testapp-view-debug.apk**
17 MB Download

**wu...@google.com** <wu...@google.com> #11 Sep 7, 2022 03:56PM

*Reassigned to pe...@photomath.com.*

Hello, have you tried comment#10? Not sure if it still happen after applying the suggestions in comment#10.

**pe...@photomath.com** <pe...@photomath.com> #12 Sep 28, 2022 10:01PM

Will try it out and report results

**er...@google.com** <er...@google.com> #13 Oct 25, 2022 07:50AM

Hi there, just a reminder please let us know if you have any feedback. We'll be closing this out next week if there are no more updates.

**pe...@photomath.com** <pe...@photomath.com> #14 Oct 25, 2022 06:32PM

We will be trying out the new camera version library when it comes to stabl

**er...@google.com** <er...@google.com> #15 Nov 8, 2022 09:33AM

*Reassigned to bu...@google.com.*

Bugjuggler: wait until next quarter

**bu...@google.com** <bu...@google.com> #16 Nov 8, 2022 09:33AM

*Accepted by bu...@google.com.*

Hi. I've received your bug and will wait until 2023-01-01 00:00 -0800 PST and then assign the bug to petar.alilovic@photomath.com.

**wu...@google.com** <wu...@google.com> #17 Dec 7, 2022 07:25PM

*Assigned to pe...@photomath.com.*

Hello, 1.2.0 Stable will be launched soon. Please try it out and let us know if you still encounter this issue.

**pe...@photomath.com** <pe...@photomath.com> #18 Apr 25, 2023 04:59PM

Yes, unfortunately it is still happening