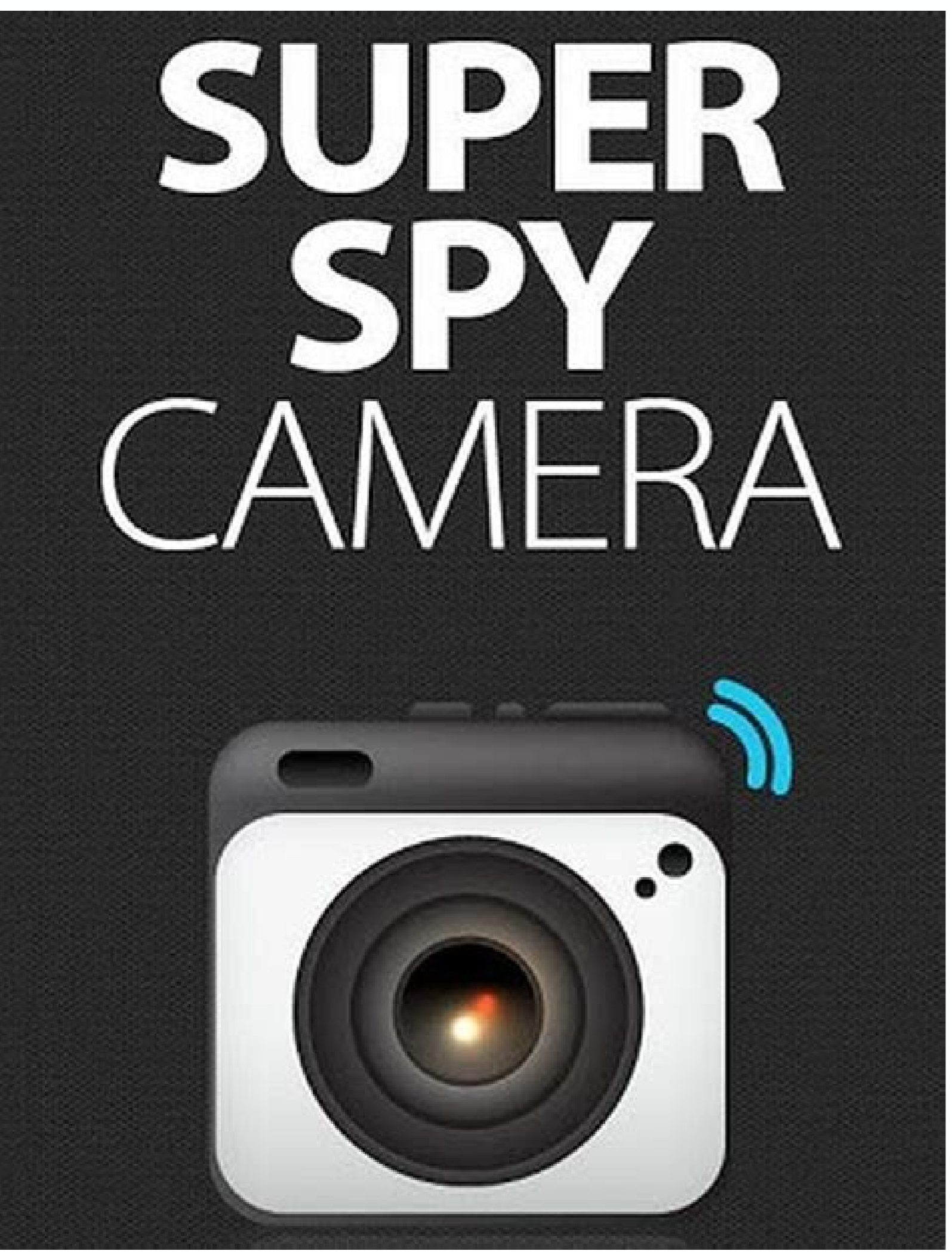
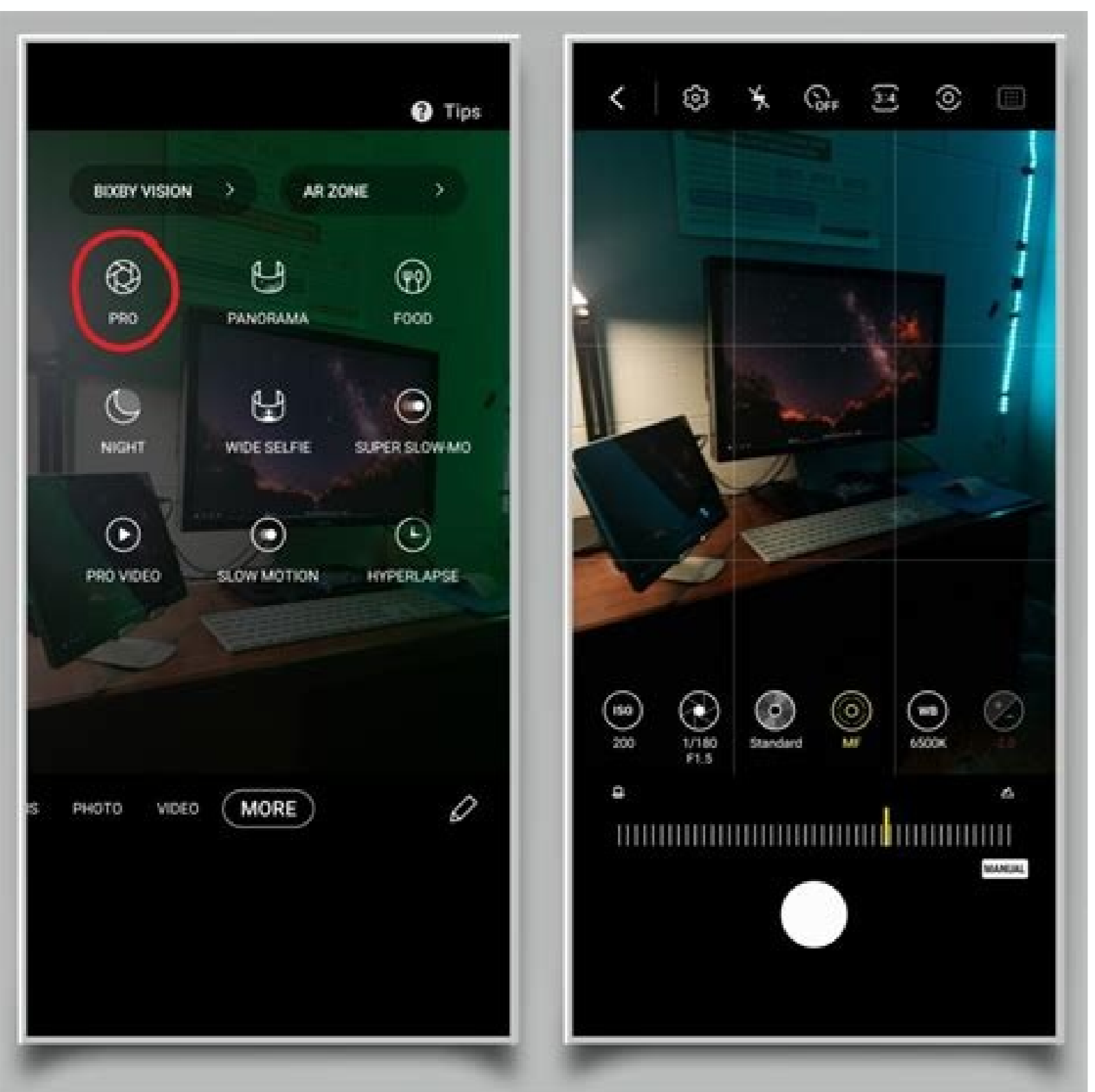


I'm not robot!





How to open camera and capture image in android. Which camera app is the best for android. Auto capture camera app for android. Fast capture camera app for android. Motion capture camera app for android. How to use camera on phone as webcam. Capture one camera compatibility. How to use camera on android.

Note: This page refers to the Camera class, which is deprecated. We recommend using CameraX or, for specific use cases, Camera2. Both CameraX and Camera2 support Android 5.0 (API level 21) and higher. This lesson teaches how to capture a photo by delegating the work to another camera app on the device. (If you'd rather build your own camera functionality, see Controlling the Camera.) Suppose you are implementing a crowd-sourced weather service that makes a global weather map by blending together pictures of the sky taken by devices running your client app. Integrating photos is only a small part of your application. You want to take photos with minimal fuss, not reinvent the camera. Happily, most Android-powered devices already have at least one camera application installed. In this lesson, you learn how to make it take a picture for you. Request the camera feature if an essential function of your application is taking pictures, then restrict its visibility on Google Play to devices that have a camera. To advertise that your application depends on having a camera, put a tag in your manifest file: ... If your application uses, but does not require a camera in order to function, instead set android:required to false. In doing so, Google Play will allow devices without a camera to download your application. It's then your responsibility to check for the availability of the camera at runtime by calling hasSystemFeature(PackageManager.FEATURE_CAMERA_ANY). If a camera is not available, you should then disable your camera features. Take a photo with a camera app The Android way of delegating actions to other applications is to invoke an Intent that describes what you want done. This process involves three pieces: The Intent itself, a call to start the external Activity, and some code to handle the image data when focus returns to your activity. Here's a function that invokes an intent to capture a photo. val REQUEST_IMAGE_CAPTURE = 1 private fun dispatchTakePictureIntent() { val takePictureIntent = Intent(MediaStore.ACTION_IMAGE_CAPTURE) try { startActivityForResult(takePictureIntent, REQUEST_IMAGE_CAPTURE) } catch (e: ActivityNotFoundException) { // display error state to the user } } static final int REQUEST_IMAGE_CAPTURE = 1; private void dispatchTakePictureIntent() { Intent takePictureIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE); try { startActivityForResult(takePictureIntent, REQUEST_IMAGE_CAPTURE); } catch (ActivityNotFoundException e) { // display error state to the user } } If you don't want to display in your app that a camera is not available, another option is to add the following to your manifest: Get the thumbnail If the simple feat of taking a photo is not the culmination of your app's ambition, then you probably want to get the image back from the camera application and do something with it. The Android Camera application encodes the photo in the return Intent delivered to onActivityResult() as a small Bitmap in the extras, under the key "data". The following code retrieves this image and displays it in an ImageView. override fun onActivityResult(requestCode: Int, resultCode: Int, data: Intent?) { if (requestCode == REQUEST_IMAGE_CAPTURE && resultCode == RESULT_OK) { val imageBitmap = data.extras.get("data") as Bitmap imageView.setImageBitmap(imageBitmap) } } @Override protected void onActivityResult(int requestCode, int resultCode, Intent data) { if (requestCode == REQUEST_IMAGE_CAPTURE && resultCode == RESULT_OK) { Bundle extras = data.getExtras(); Bitmap imageBitmap = (Bitmap) extras.get("data"); imageView.setImageBitmap(imageBitmap); } } Note: This thumbnail image from "data" might be good for an icon, but not a lot more. Dealing with a full-sized image takes a bit more work. Save the full-size photo The Android Camera application saves a full-size photo if you give it a file to save into. You must provide a fully qualified file name where the camera app should save the photo. Generally, any photos that the user captures with the device camera should be saved on the device in the public external storage so they are accessible by all apps. The proper directory for shared photos is provided by getExternalStoragePublicDirectory(), with the DIRECTORY_PICTURES argument. The directory provided by this method is shared among all apps. On Android 9 (API level 28) and lower, reading and writing to this directory requires the READ_EXTERNAL_STORAGE and WRITE_EXTERNAL_STORAGE permissions, respectively: ... On Android 10 (API level 29) and higher, the proper directory for sharing photos is the MediaStore.Images table. You don't need to declare any storage permissions, as long as your app only needs to access the photos that the user took using your app. However, if you'd like the photos to remain private to your app only, you can instead use the directory provided by getExternalFilesDir(). On Android 4.3 and lower, writing to this directory also requires the WRITE_EXTERNAL_STORAGE permission. Beginning with Android 4.4, the permission is no longer required because the directory is not accessible by other apps, so you can declare the permission should be requested only on the lower versions of Android by adding the maxSdkVersion attribute: ... Note: Files you save in the directories provided by getExternalFilesDir() or getFilesDir() are deleted when the user uninstalls your app. Once you decide the directory for the file, you need to create a collision-resistant file name. You may wish also to save the path in a member variable for later use. Here's an example solution in a method that returns a unique file name for a new photo using a date-time stamp: lateinit var currentPhotoPath: String @Throws(IOException::class) private fun createImageFile(): File { // Create an image file name val timeStamp = SimpleDateFormat("yyyyMMdd_HHmmss").format(Date()) val storageDir = File(getExternalFilesDir(Environment.DIRECTORY_PICTURES)) return File.createTempFile("JPEG_\${timeStamp}_", ".jpg", storageDir) } apply { // Save a file: path for use with ACTION_VIEW intents currentPhotoPath = absolutePath } } String currentPhotoPath; private File createImageFile() throws IOException { // Create an image file name String timeStamp = new SimpleDateFormat("yyyyMMdd_HHmmss").format(new Date()); String imageFileName = "JPEG_" + timeStamp + ".jpg"; File storageDir = getExternalFilesDir(Environment.DIRECTORY_PICTURES); File image = File.createTempFile(imageFileName, ".jpg", storageDir) // Save a file: path for use with ACTION_VIEW intents currentPhotoPath = image.getAbsolutePath(); return image; } With this method available to create a file for the photo, you can now create and invoke the Intent like this: private fun dispatchTakePictureIntent() { Intent(MediaStore.ACTION_IMAGE_CAPTURE).also { takePictureIntent -> // Ensure that there's a camera activity to handle the intent takePictureIntent.resolveActivity(packageManager)?.also { // Create the File where the photo should go val photoFile = try { createImageFile() } catch (ex: IOException) { // Error occurred while creating the File ... null } // Continue only if the File was successfully created photoFile?.also { val photoURI = Uri = FileProvider.getUriForFile(this, "com.example.android.fileprovider", it) takePictureIntent.putExtra(MediaStore.EXTRA_OUTPUT, photoURI) startActivityForResult(takePictureIntent, REQUEST_IMAGE_CAPTURE) } } } private void dispatchTakePictureIntent() { Intent takePictureIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE); // Ensure that there's a camera activity to handle the intent if (takePictureIntent.resolveActivity(getPackageManager()) != null) { // Create the File where the photo should go File photoFile = null; try { photoFile = createImageFile(); } catch (IOException ex) { // Error occurred while creating the File ... } // Continue only if the File was successfully created if (photoFile != null) { Uri photoURI = FileProvider.getUriForFile(this, "com.example.android.fileprovider", photoFile); takePictureIntent.putExtra(MediaStore.EXTRA_OUTPUT, photoURI); startActivityForResult(takePictureIntent, REQUEST_IMAGE_CAPTURE); } } } Note: We are using getUriForFile(Context, String, File) which returns a content:// URI. For more recent apps targeting Android 7.0 (API level 24) and higher, passing a file:// URI across a package boundary causes a FileUriExposedException. Therefore, we now present a more generic way of storing images using a FileProvider. Now, you need to configure the FileProvider. In your app's manifest, add a provider to your application: ... Make sure that the authorities string matches the second argument to getUriForFile(Context, String, File). In the meta-data section of the provider definition, you can see that the provider expects eligible paths to be configured in a dedicated resource file, res/xml/file_paths.xml. Here is the content required for this particular example:

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