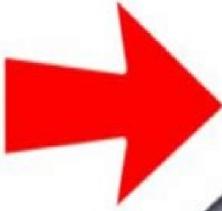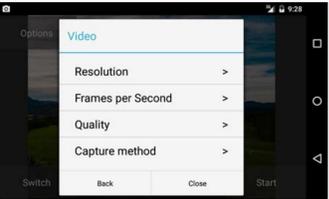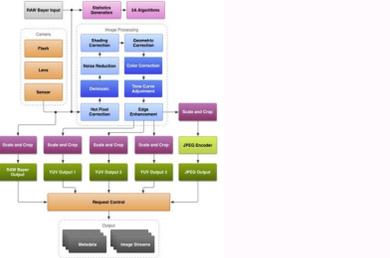# Android webcam server

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ANDROID CAMERA ARCHITECTURE

You can use a mobile device camera as IP camera with the IP Webcam application for Android. IP Webcam allows users to broadcast videos from the cameras of their devices using Ivideon. Here you can download a free version of the application. Can my device broadcast using Ivideon? IP Webcam can broadcast video via Ivideon on most devices with Android 4.1 or higher. To check, run the application, select "Broadcast over the Internet" and click "Check compatibility". The app will tell you about compatibility with Ivideon. How does it work? Run the application, select "Broadcast over the Internet" and click "Enable Internet Broadcast". Enter your credentials or create a new account. Return to the main application menu and click "Start". Now the camera is linked to your personal account. It is automatically assigned to the "Free" rate plan. Now you can watch live video from the built-in camera of your mobile device. Attention! By default, your camera will be connected to the "Online" rate plan, which allows you to preview video in real time. If you want to store the video from your mobile device in Ivideon cloud storage, you need to select a different rate plan. To do this, log into your personal account. You will be prompted to configure a new camera. After confirming, "My Services" tab will open, where you will need to choose a rate plan. Have you made your choice? It's all done. Now you can watch live video from the built-in camera of your mobile device. Can I save my videos? Yes, you can, if you selected a rate plan that allows you to save the archive in the cloud. You can learn more about rate plans here. Archive is recorded in the cloud only when the camera registers movement or sound, i.e., you need to enable the sensors. To do this, open the main menu of the application and select "Enable motion sensor" and/ or "Enable sound sensor" in the "Motion and Sound Sensors" section. Done. Now the video from your camera is recorded in the cloud storage. You can view the recorded video in the personal account or Ivideon application, as well as export these video to your computer. Can I receive event notifications? Yes, you can receive notifications about movement and sound activities, as well as when the device with the camera is turned on and off. To receive notifications about motion and sound, enable the corresponding sensors in the "Motion and Sound Sensors" section. Will the application run in the background? Yes, it will. To do this, click "Actions..." in the live video view window and select "Run in the background" or just minimize the app window. Can the application start automatically? Yes, to run the application when the phone is turned on, check the "Run at startup" box in the main application menu. What parameters are optimal for video broadcasting over the Internet? Resolution - no more than 1280×720, bitrate - no more than 1200 kbit/s. You can configure the settings in the "Video settings" section. How fast does the device lose charge when the application is running? Energy is consumed rather quickly. For long-term operation of the device with the running application, we recommended that you constantly charge the device from the wall outlet using a charger with a current of at least 1A. To reduce power consumption, open the "Power Management" section and uncheck "Do not turn off the screen" box. While the application is running, the device can get quite hot. Make sure the device cools off. Use your phone's camera as a wireless webcam in your PC or Mac.Install Webcam for Windows, Mac or Linux, download Iriun Webcam app to your mobile phone and start using the phone with your favourite video applications. A webcam is a digital camera that's connected to a computer to stream live video in real time. In most cases, webcams are used for online meetings, web conferencing, and online learning, but there are a few other uses for them. And not all webcams are equal. Here's everything you need to know about webcams and how they work. You've probably heard of, and maybe even used a webcam on your computer. It's the camera that's connected to your computer, either as an integrated piece of equipment, via USB cable, or wirelessly. Internal webcams are those that are built-into the computer you're using. You'll probably see an internal camera as a tiny dot in the top, center of the screen, about the size of a small eraser. USB and wireless webcams are external, and can be used on any computer that has the appropriate software installed. They're also more flexible in terms of location, because they don't have to be mounted to the top of your computer screen. Because of the broad range of webcams, we have compiled a list of helpful articles into a quick guide to help you use, fix and purchase what works best for your life. To use the guide, open the links in the navigation pane. You'll see it's separated into four different sections. Webcam Considerations, Using Your Webcam, Fixing Your Webcam, and Our Recommendations: Best Webcams. Inside each section are several articles filled with tips and hints for you. In addition to there being integrated, wired, and wireless webcams, there are also two types of webcams. These types of webcams differ in capabilities and in purpose. They are: Network Cameras: These are the basic webcams that you'll find integrated into your computer and there are webcams you can purchase off the shelf at most personal electronics stores. You'll see them from brands like Microsoft, Logitech, and Razer. These are commonly for short term use. IP Cameras: IP (internet protocol) webcams are designed a little differently. These are designed for 24/7 surveillance and many offer higher quality video than you can find in a network camera. This type of webcam is often used for security systems, pet cameras, and other uses that require longer usage times. Webcams are used for a variety of functions, most usually to stream video from one location to another, such as when you're meeting with friends, family, or colleagues online or when you're attending an online class or meeting. Some webcams also have capabilities that will allow you to capture a still image, though it's not always the best quality image. IP cameras usually have more commercial purposes, though they have become popular for home security systems, baby monitors, and pet cameras. Robert Daly / Getty Images If you're at all familiar with a digital camera, then you might have a general idea of how a webcam works. It is, in essence, a digital camera that is connected to your computer. It works by capturing light. Light travels through the lens of the camera to an image sensor. There, the light is collected and divided into pixels which can then be converted into digital information in the form of a numerical language called binary code. That code can then be transferred across a network, such as the internet or even an internal company network to a receiving computer, which reverse engineers the process to convert the code to pixels which are displayed on a computer screen. It doesn't matter whether the webcam is internal or external, some software is necessary to make it work. Aside from the equipment driver, a specific webcam application, Skype, Zoom, or some other video conferencing software must be used. One issue that has become concerning is webcam security, specifically those integrated into or constantly attached to computers (and in some cases, televisions). Hackers have found ways to hack the firmware or software that webcams use, and by doing this, they can tap into a view the feed from your webcam or they can even interrupt streaming through your webcam. For this reason, a common question that's asked is "Is a webcam cover necessary?" While not strictly necessary, if you cannot disable your webcam, it is advisable to keep your webcam covered when not in use. If your webcam doesn't have a built in cover, you can always place a piece of paper or tape over it when it's not in use to protect your privacy. Thanks for letting us know! Get the Latest Tech News Delivered Every Day Subscribe Tell us why! 1.16.5.782 (multiarch) Dec 3rd, 2021 1.15.0r.769 (aarch64) Feb 13th, 2021 1.14.37.759 (aarch64) Jul 20th, 2020 1.14.36.755 (aarch64) Jun 8th, 2022 1.14.31.737 (aarch64) Apr 28th, 2021 1.14.30.736 (aarch64) Aug 23th, 2019 Looking for a way to put your old Android phone to use? Need an IP camera to stream live footage of events over the internet, but can't afford an actual IP camera? Thankfully, several apps are available to turn your Android device into an IP webcam. Within minutes, you'll be using it to share video footage across the internet with friends, family, or maybe just yourself. Use Android as an IP Webcam A typical Android smartphone, old or new, comes with at least one camera. Meanwhile, the Android operating system lets developers create apps that do almost anything. This makes Android an ideal platform for use as an IP webcam. All you need to do is enable Wi-Fi, find the right app, set it up, then position your Android device as required. The result is a steady IP webcam picture streamed across the web. You can view the footage in any browser. Webcam vs. IP Webcam: What's the Difference? It's possible to set your phone up as a standard webcam, as well as an IP webcam. But what is the difference? Well, a webcam is a camera that's connected via USB or built into your computer or other devices. Its purpose is to record video and photos, either for local use or on a video chat program like Skype. On a secure system, the webcam cannot be accessed over the web without your permission. Interestingly, you can also use your Android device as a PC webcam. An IP camera, meanwhile, is a device intended for streaming video footage across the internet. For example, this might be a traffic cam or another static camera that's publicly accessible. Alternatively, it could be a security camera you can access remotely. The difference is clear: a webcam can have multiple purposes—whereas an IP camera is intended for remote viewing. Keep reading to learn how to turn your Android phone into an IP camera. How to Use Android as an IP Webcam With an App Several IP camera apps are available for Android. For this project, we've determined that the most useful option is IP Phone Camera by Deskshare. If your phone has an internet connection, this app will turn the device into an IP camera. The IP Phone Camera app has in-app purchases, but you don't need these for the basic IP camera functionality. Download: IP Phone Camera (Free, in-app purchases available) IP Phone Camera's Key Features Using IP Phone Camera? You'll see it offers three options: Wi-Fi: Directly broadcast to any browser-equipped device on the same network Mobile hotspot: If your Android phone supports wireless tethering (which it most likely does), broadcast your ad-hoc mobile hotspot. Mobile data: This paid feature lets you view the webcam from anywhere in the world The app also offers control options, allowing you to manipulate the camera from the browser. You can: Adjust brightness Enable flashlight Zoom in/out Auto-focus Rotate Switch between front and back cameras These are all useful remote configuration tools to help you get the best picture possible from your Android IP webcam. Configure the IP Phone Camera App As noted above, you have a few options, but it's worth using Wi-Fi first to get to grips with the app. So, with IP Phone Camera installed, select Wi-Fi on the main screen (or in the Settings menu), then hit Start Broadcasting. Use the Plus and Minus buttons to zoom in and out of the subject. Note some of the other options in the Settings screen. Here, you can set the app to automatically Start broadcasting on app launch, as well as use the Video Quality settings to save bandwidth. There's also a Require password option, but that's only available with the Premium subscription for the app. To upgrade, tap the menu button, then Upgrade. There's a free seven-day trial, then the option to pay $2.49 a month or $21.49 per year. Access Your IP Webcam via Any Browser If you're viewing the Android IP webcam from within your wireless network, use the URL displayed on the broadcast screen. This is formatted as an IP address with a port number, such as 192.168.1.103:6677. There's also a secondary option, in case you use Deskshare's Security Monitor Pro desktop software for Windows. This premium app gives additional functionality, but in most cases, you probably won't need the $89.95 software. For the mobile internet streaming option, meanwhile, the URL to visit is ipphonecamera.deskshare.com. All you need to do is copy the URL into any browser on your computer or any other network-connected device. If you're using the mobile internet option for streaming, the app will display the credentials needed to access the feed. Controlling the IP Webcam Remotely The app's browser console includes an easy-to-use touch-friendly panel of controls. Here you can control the zoom and brightness level, rotate the camera, and enable the camera light if necessary. You can also hit Switch Camera to flip between front and back cameras on your Android device. You'll spot a Record Video feature, too, but this is limited to users of Security Monitor Pro. Positioning Your IP Camera With everything set up, you'll need to position the smartphone carefully. You have several options here: Basic desktop stand: Use this to place your phone on a flat surface Smartphone tripod: Provides a steady picture Smartphone tripod with flexible legs: Intended to let you place your phone anywhere Windshield-mounted phone holder: Usually found in cars, ideal for attaching your phone to glass or metal surfaces Narrow down your options with our guide to the best fluid head tripods. If you're low on budget, no worries, we've covered some DIY smartphone tripod mounts as well. Your Android IP Webcam Is Ready to Use Your IP camera is ready to use with the software installed—the phone carefully positioned—and it streaming video across the web. Perhaps you're using it to observe your property, or you might have it set up as a baby monitor. Or perhaps you just want to capture events outside your home or in the street and share them with the world. It is important to note that there is a lag when using this app; however, the lag is less than when viewing IP webcam footage over mobile internet.

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