Eken action camera manual

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Is EKEN H9 a long-awaited competitor to GoPro Hero, shooting 4K at a much lower price? Not quite - it's labeled 4K, but the resolution is interpolated, which means it's upscale from the lower recorded resolution. Easy to check: it has a 4MP sensor (even hard it is often advertised as 12MP, which is associated with the size of the photo - upscale as well), the 4K resolution is about 8MP. At the same time, the EKEN H9 series was expanded with EKEN H9R, H9s, H9R Plus,... - more on that later. Yet the EKEN H9 is a great camera for the price tag around 45USD, so let's take a look at the specs: In this review I take a look at: EKEN H9 SpecsEKEN H9 VersionsBody, Buttons - PortsFunctions - SettingsFirmwareRemote Control - AppDemo FootageIssues / ProblemsConclusion (my 2 cents EKEN H9)EKEN H9 Competitors - Comparable camerasEKEN H9 - new design with the EKEN logo vs. the old designEken H9 specsImage Sensor: TheVision Omni OV4689 is a native 4MP sensor. (Photos are upscale up to 12MP, hence sometimes the 12MP camera stated) This is the same sensor used in the SJ4000 SJCAM. The 4 MP sensor is too small to offer real 4K video, you will need at least 8 MP (16:9) sensor or 12 MP (4:3) sensor that most action cameras offer. Chipset: The camera uses the Sunplus 6330M chipset, which is used in many budget action cameras. Most of the more expensive action cameras rely either on Novatek chipsets or on Ambarella chipsets. Frame rate:4K - 10fps / 25 fps (depending on firmware)2.7K - 15fps1080p - 60/30 fps720p - 120/60fps (depending on the firmware) And keep in mind that labeled 4K is not native 4K, it is interpolated. It's easy to say for this camera like the 4K is over 8 MP and the camera is just a 4 MP sensor. If you're looking for a real 4K, here's a comparison camera. The cheapest real 4K action camera is probably the Xiaomi Mijia, which is just over 100 US dollars. It also comes with a touchscreen and other advanced features. Video recording: .mov files; .h264 data speed codec 35-44 MB/s test while 1080p 60fps record, which is quite high compared to other action cameras. Photo: 12 MPs claimed as a maximum, but keep in mind the EKEN H9 uses a 4MP sensor, hence the photos are upscale up to 12MP. Lens: The camera has a 170 lens, like most action cameras. Communication and ports: Wi-Fi is built in to connect to the app (Android and iOS) It also offers HDMI as well as a USB port. The microphone via USB and A/V via USB is not available! EKEN H9R offers remote control, EKEN H9 can not be updated! Battery: The Eken H9 is powered by a 1050 mAh battery. Update: Previously Eken models like this one have a square battery, the new models have rounded batteries! SJCAM batteries are still suitable as changed only the battery, not the slot itself. But keep in mind that this may change as well. Storage: recommended microSD 16 or 32GB; Selected 64GB cards are supported but not guaranteed; Class 10 is is EKEN H9, H9R and H9s offer a live view of the 2 screen (320×240 resolution). EKEN H9R Plus offers a 2-inch touchscreen! VersionsOn, EKEN's design has changed a bit. An earlier design (right) does not show the EKEN logo on the packaging. Nor did the underwater case change. The latest packaging design is on the left: EKEN Packaging: The Last to Early But there are other models with similar names (name extension): EKEN H9RThe EKEN H9R comes with a remote control, and this is the only difference from the EKEN H9. The EKEN H9sEben H9s comes with a remote control and has a new feature that is live streaming! EKEN H9seThe EKEN H9se is a cheaper, lower version of the H9 using cheaper parts. EKEN H9 vs. EKEN H9seEKEN H9se has a 150 lens, a lower-resolution screen (220 x 176 px instead of 320 x 240) and another sensor: 4 MPG4603 instead of 4 MP OmniVision OV4689. It doesn't have a 720p solution with 120 fps and you can't upgrade to H9, as it uses different firmware! The EKEN H9R PlusEKEN H9R plus is the latest model of the EKEN H9 series. It's got completely different specs, then other cameras are the H9 series! It received a 14MP Panasonic sensor (similar to the SJCAM SJ8 air) and 2 touchscreen. But the price is also way higher at around $90. EKEN H9R Plus offers 2touchscreenHere in review currently produced by EKEN Cameras. If you want to compare out production models like the EKEN V8s or EKEN H8 Plus, check out my EKEN comparison article. ModelEKEN H5s PlusEKEN H6sEKEN V50 ProEKEN H7 blackEKEN H7sEKEN H8/H8R/H8sEKEN H9R PlusEKEN H9/H9R/H9sEKEN H5s PlusEKEN H6sEKEN Alphawise V50 ProEKEN H7 blackEKEN H7sEKEN H8sEKEN H9R PlusEKEN H9sRemarkskull designalso branded Alfawise EKENout of production(to be confirmed)Sensor12,4 MP Sony IMX 07814 MP Panasonic 3411013 MP Sony IMX 25812,4 MP Sony IMX07814 MP Panasonic 3411212,4 MP Sony IMX07814 MP Panasonic 341124 MP Omnivision OV4689ProcessorAmbarella A12S75Ambarella A12S75Ambarella A12S75Ambarella A12S75Sunplus 6350Ambarella A12S75 Ambarella A12Sunplus 6350 chipLens / FOV170°170°170°170°170°170°170°170°4K Resolution max. framerate30fps native (real 4K)30fps native (real 4K)30fps native (real 4K)30fps native (real 4K)30fps native (real 4K)30fps interpolated (not real 4K)30fps interpolated (not real 4K)25fps interpolated (not real 4K)2,7K – Resolution max. frame rate60fps30fps30fps60fps30fps30fps30fps30fps1080p –Resolution max. frame rate100fps60fps60fps100fps60fps60fps60fps60fps720p Resolution max. frame rate200fps-60fps200fps120fps120fps120fps120fpsImage Stabilizationyes up to 4K 30fpsyes up to 4K 25fpsnoyes up to 25fpsnoyes up to 25fpsnoyes up to 25fpsnoyes 4K 25fpsnononononoPhoto Resolution (native - unscaled)12 MP13 MP12 MP12 MP 16 MP Interpolated14 MP12 MP14 MP4 MP4 MPDisplay2 touchscreen2 live view2 touchscreen2 touchscreen2 экран2 live viewFront Displayyesyesnononoyesno Facebook Displayyesyesnononoyesno Facebook H8snoonly H9sBattery1050 mAh1050 mAh1050 mAh1050 mAh1050 mAh1050 mAh1050 mAhWiFiyesyesyesyesyesyesyesyesRemote Controlyesyesyesyesyesonly H8R & H8syesonly H9R & H9sPortsmicro USB, micro HDMImicro USB, micro HDMImicro USB, micro HDMImicro USB, micro HDMImicro USB, micro HDMImicro USB, micro HDMImicro USB, micro HDMImicro USB, micro HDMIA/V out via USBnononononononononoMic in via USBnononononononononoDimension (mm)59.3 x 21.4 x 41.159.3 x 21.4 x 41.159.3 x 21.4 x 41.159.3 x 21.4 x 41.159.3 x 21.4 x 41.159.3 x 21.4 x 41.159.3 x 21.4 x 41.1?59.3 x 24.6 x 41.1Mounts & CaseincludedincludedincludedincludedincludedincludedincludedincludedincludedAliexpress (ATPowers) confirmed retailer$ 88.77$ 74.99$ 45.98---$ 64.11EKEN H9:$ 36.99 EKEN H9R:$ 44.99Banggood$ 122.99$ 91.99$ 71.99$ 101.99-$ 75.99$ 91.99H9: $ 49.99 H9R: $ 44.99Gearbest:$ 133.15$ 87.99$ 56.99----H9R: $ 46.99Amazon US (official EKEN store)---EKEN H9R: Retailer / Price ComparisonThere are a lot of issues with H9 clone cameras (fake H9). EKEN advises its customers to buy on Amazon, as these are official EKEN stores! Since 2017 EKEN cameras are easier to detect because they have the EKEN logo before they do not! If you buy, check if you buy an EKEN H9 or just an H9 camera! List of official EKEN stores on Amazon:Banggood has been confirmed by EKEN for sale of original products! GearbestEKEN H9R: 46.99 USDBe known, there is also an H9 camera - not EKEN ! it's a different camera! AliexpressConfirmed Retailer: ATPowersEKEN H9: 37.99 USDEKEN H9R: 46.99 USDAmazon (official EKEN store) - recommended by EKEN to get the original camera! Body, buttons and PortsEKEN H9 - the front of the body EKEN H9 is the same size as the sJCAM SJ4000, so you can use their accessories as well. On the front of the camera there is a power and mode switch button, as well as an LED for status and charging. At the top of the camera is a shutter button, which also acts as a selection button in the camera menu, and a large LED recording. On the one hand, you'll find 2 buttons to navigate the menu, as well as for playback and Wi-Fi. You can remotely control your camera using the iOS or Android app. The remote control was introduced later sold in a kit like the EKEN H9R. A little to the front there are some holes where the speaker is located. When you play a video, you'll also hear a recorded sound. On the other hand, there is a microUSB and a micro HDMI port, as well as a micro SD card slot. Cards up to 64GB are supported, Class 10 is recommended. Above there are holes for the microphone. Almost the entire back of the camera is covered with a large 2LCD display. There's a battery door downstairs. EKEN comes with a 1050 mAh battery. The size and shape of the battery are the same as the batteries for SJCAM or GitUp. New models use rounded batteries, but the slot is still the same, so you can use Battery as well: EKEN H9 - The new battery vs. old batteryIn the volume accessoriesThe Eken H9 comes with a huge package of accessories that have changed over the life of the product. Now the price includes a second battery! The EKEN H9 included Accessories (Updated Set) As mentioned above the camera has the same size as SJCAM action cameras, so you can use SJCAM accessories. At the bottom of the underwater enclosure there is a famous GoPro mountain, so you can use any GoPro mountain with this camera. The included frame (Clip 1) offers 1/4 strand, so you can mount the camera with a standard photo tripod screw. One third-party accessory became available, which was often requested by users - an underwater dome! Features and settingsYs can change settings very conveniently with a large screen on the back. When you power the camera with the power button on the front, it will help you in video mode first. A small icon on the left side of the screen will show you that you are in video mode and current settings. With a short power button you can cycle through camera modes: photo mode - explosion mode, where the camera takes 3 photos for a second - a length of time mode and setting. To enter the settings, you have to press the shutter button, which will also act as the button of choice. You can navigate through the menu by pressing the buttons up and down on the side of the camera. Clicking on the mode/power button you get one step back: There are 5 pages showing your settingsVideo Resolution: You have the following options:4k - 25fps (depending on firmware)2.7K - 30fps1080p - 60fp s108 0p - 30fps720p - 120fps (depending on firmware)720p - 60fps (depending on firmware) The latest firmware includes 4K 25fps and 720p 120fps! (Only EKEN H9, EKEN H9se can't be updated!) There is no way to choose a PAL mode that will give you 25fps (and a few of that) and also no room for 24fps. Loop Video: The camera will record 10min. clips and rewrite the early clip when the microSD card is full. Time Stamp: You have the opportunity to show the date or date and time in your records. Exposure: You can choose: :-2.0/-1.7/-1.3/-1.0/-0.7/-0.3/0 to correct the camera exposure manually. Photo Resolution: Options: EKEN H9 uses a 4MP sensor, so all resolution photos are higher than upscale. The same effect as you would upscale them on a computer. Blast Photo: The camera will shoot 3 photos in a second and this is the only option you have. Even with a lower resolution, Lapse: You can set the interval for the camera when it takes pictures: 2s/3s/5s/10s/20s/30s/60s It's a time-lapse photo mode, so EKEN will take individual photos but don't generate a video clip from it! The EKEN V8s was the first EKEN camera that came with a feature action video. Continuous Lapse: You have to include this option to take a while. Time. don't really know why you should choose it, since the time span is a separate camera mode. Power frequency: You can choose 50 Hz, 60 Hz or Auto. I guess it controls the shutter to avoid flickering as the frequency in lighting is different in several countries. Language: There are a huge variety of languages that you can set your menu: English, traditional Chinese, Italian, Spanish, Portuguese, German, Dutch, French, Czech, Polish, Turkish, Russian, Japanese, Korean and Thai. Date : Be sure to enter the correct information when using the time stamp option. Sound indicator: You have several options to choose when your camera should beep and volume. Upside down: You can flip the image in case you set the camera upside down. Screen Saver: A good option that turns off the display to save the battery: off, 1 min, 3 min or 5 min. Power Saver: Same for the camera itself. You can choose and the camera will turn off automatically when on standby: off, 1 min, 3 min or 5 min. Format: Format of your SD card. Reboot: To get the camera back to factory settings. Version: Where the firmware version of your camera is displayed You have some basic features, but I lack the white balance or automatic recording/automatic power to use this camera as a dash cam. But more on that in my opinion. FirmwareKako you can see in my photos I received EKEN H9 from 2015 (black), EKEN H9 from 2016 (white) and EKEN H9s from 2017 (black with logo). There are only 2 notable, visible firmware changes since its first release: The first version of the EKEN H9 alone can make 15fps in 4K, while the new ones can make 25fps in 4K. In early 2016 there were several versions of the firmware that couldn't make 720fps with 120fps. In addition, there are no new features with new versions of the firmware. I can't tell if the image processing has been improved or the camera is more stable with the new firmware. Be very careful when updating the firmware. You need to choose a version based on the one already installed on the camera. There are 4 different versions just for EKEN H9! (except for several versions for H9R, H9se, H9Rse, H9 Pro,...). If you choose the wrong one, you can brick your camera! If you've received both settings as mentioned and everything works fine, I recommend not updating the firmware. Find links to the firmware in the EKEN H9 Group file section on Facebook.Remote Controller:EKEN H9 didn't come with a remote control, and it can't be purchased after that! You have to buy EKEN H9R or EKEN H9s! Remote features: splash proof (not waterproof!) working distance 15mwifi connectedRemote Control through App:You can also remotely The phone, iOS and Android App are available and are called the Ez iCam App.Screenshot of the Ez iCam app (iOS version) from above you can choose the resolution and frame rate, but 4K and 2.7K are not available in the app. Next to it you will find the state of the camera battery. Now what is very very very is that you can choose the white balance (AWB) in the app, but not in the camera menu! When you click on the settings next to it, you just can choose the power frequency and format of the SD card - that's all - no other options. I hope EKEN will add it with a future app update. Underneath the live image you will find a shutter button and a mode switch button that will allow you to choose photo or video mode. You can't choose the blast mode or the time lapse with your phone! On the other hand you can find a camera roll. So you don't get many options in the app. On the other hand, you don't need an app to control your camera. You can do everything on the screen and the menu and the navigation on the camera works very well. If your only reason is to contact your phone to share photos and videos online, you should be fine. The live stream is only available on EKEN H9s - check out my review of EKEN H9s for more information. How to connect: Click down on the side of the camera to turn on Wi-Fi. On the screen you'll see what Wi-Fi is currently on. Look for a camera on your phone's Wi-Fi - the standard name Wi-Fi ICAM-Hg, the standard password 1234567890Open to the iCam App equalizer and select the camera - that's a live-looking show. Demo Footage: Comparison of EKEN H9 and Xiaomi Yi: Comparison of EKEN H9 and MGCOOL Explorer: Here's a comparison with the similar prices of MGCOOL Explorer:1080p 60fps Demo FootageI'm not very happy with the color style and dynamic range of the camera, sharpness is great tough. On purpose I tried to cover half the picture with the car to get the very light and very dark parts in one frame to see how the camera handles it. Issues/ Problems As it seems that always the same problems are reported, I created a new blog with frequently asked questions for EKEN H9 and solutions for them (if possible). Check out: EKEN H9 problem frequently asked questions Check out EKEN H9 User Group on Facebook, there you'll find the latest firmware in the File section! There is a debate going on about the real EKEN H9 and the fake H9 camera. If you want to be sure to buy on Amazon, which is the recommended EKEN channel. When choosing another retailer, keep an eye on what EKEN H9 says. In case you receive something else, you can apply for a refund. ConclusionFor the price of 45 USD I think the EKEN H9 is a great camera. Such cameras do not show such good performance at a price. But keep in mind you buy a 45 DOLLAR camera, so don't expect features of the 400 USD camera. But for the price, it's very much. Here are my pros and cons: the big plus for the EKEN H9 is definitely its price, so it got my attention. It's cheaper than a YI action camera, but additionally offers 2 screen and comes with lots of accessories. More The competition is the new yi Discovery Action Camera. It's a little more expensive, but it's got a 2Sensor screen, a screen, More tweaks and firmware is updated frequently. You also benefit from a more advanced yi app. 2splay is very bright and shows a good image. Entries at 1080p with 60fps are very sharp. I was also surprised that the 1080p 60fps records show a data rate of 25-45 MB/s, which is very high compared to Xiaomi Yi's 25MB/s. Accessories (2017 version): The included accessories have been increased in price and built quality. Great to see the addition of a second battery and mini tripod. Application. The app is not from EKEN and lacks some features. This is normal for basic features such as copying photos on your phone, but not as functionally as the YI app. On the other hand, the new Livestream H9s feature works very well. The menu offers basic features, but not as much as other cameras. It would be great to set the white balance or choose other features such as video time lapse or automatic power with automatic recording to use the EKEN H9 as a dash cam. There are no two useful features on the hardware side: the external microphone and the A/V output. Most action cameras use larger sensors by now - check out the list of competitors below. I think a small sensor results in a very sharp image, but lacks a dynamic range. In the next picture I tried to frame the image, where there is a very dark (car) and a very bright (sky) area. The sky is completely overexposed. Footage captures the video, shot with EKEN H9 at 1080p with 60fps. Here are 2 frame captures from the comparison video with Xiaomi Yi (video above). You can see that the EKEN H9 image is very sharp and the contrast is high, but the sky on the right is overexposed while Xiaomi Yi still shows the texture of the clouds, but not so sharply. (click for full resolution) Frame capture video shot with EKEN H9 at 1080p with 60fpsFrame to capture the video shot with Xiaomi Yi's 1080p with 60fpsEKEN H9 Competitors and comparable cameras So let's enclose the EKEN H9 basic specifications and compare it with other cameras. As mentioned, I think the $45 EKEN H9 is the best in its class. For more or other features you need to invest a little more money. But perhaps they offer the specifications that are necessary for your situations: EKEN H94 MP sensor4K video interpolated - 25fps1080p - 60fps2 Screenno external microphoneno image stabilization accessories includedYi Discovery New entry-level camera from YI technology Yi Discovery and available for . Check for promotions, they are quite common! It offers some advantages about EKEN H9. It has a larger 8 MP sensor, offering 2 touchscreen and more settings. You also benefit from the YI App, which is way advanced compared to EKEN On the other hand, accessories are not included. 8MP Sensor 4K video interpolated - 20fps 1080p 60fps 2 Touch screen no external microphone no image stabilization accessories included included SJ8 Air is the new entry-level action camera from SJCAM. It's available for $89. It has a larger 14 MP sensor, offering a 2.33 touchscreen, a state-of-the-art USB-C port that also allows you to use an external microphone and more settings. Accessories are included in the full box. The 14MP Panasonic sensor no 4K video only 1080p 30fps 2.33 Touch external microphone not available image stabilization accessories included ReviewGit 2 Git2 a bit of insider review, but I like it a lot. Check out the offers that you can get it for below $90. It's twice as expensive as the EKEN H9, but offers a lot more features that you'll benefit from in the long run. It's a solid camera with excellent firmware and excellent image stabilisation! It received more than 16 MP Sony sensor - 4 times the size of the EKEN H9 sensor! 16MP Sony Sensor 4K video is interpolated - 24fps 1080p 60fps 1.5 Screen external microphone available accessories to stabilize the image included ReviewXiaomi Mijia If you want a real 4K action camera, it's probably the cheapest and I like it a lot. It is available for just over $100. Very solid camera (also solid built). Aside from the real 4K with 60fps it also offers higher frame rates of 1080p - 120fps. It comes with image stabilisation and a large 2.33-inch touchscreen. 8MP Sony Sensor Real 4K Video - 30fps 1080p 120fps 2.33 Touch Screen No external image stabilisation microphone available accessories not included ReviewI hope you like this article and check back on my blog from time to time as I will constantly update the information. If you want to leave any feedback or disagree with my thoughts on camera, please do so in the comments section. Discuss with other users on Facebook at EKEN H9 Group check out my review of all EKEN camera series: Comparison of EKEN camerasRetailer / Price comparison there are many problems with H9 clone cameras (fake H9). EKEN advises its customers to buy on Amazon, as these are official EKEN stores! List of official EKEN stores on Amazon:Banggood has been confirmed by EKEN for sale of original products! GearbestEKEN H9R: 46.99 USDBe known, there is also an H9 camera - not EKEN ! it's a different camera! AliexpressConfirmed Retailer: ATPowersEKEN H9: 37.99 USDEKEN H9R: 46.99 USDAmazon (official EKEN store) - recommended by EKEN to get the original camera! Camera! eken 4k ultra hd action camera manual. eken 4k action camera manual. eken h9r 4k action camera manual. eken h9 ultra hd 4k action camera manual. eken 4k action camera user manual

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