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Eachine e58 1080p review

REVIEW - Drones are all the rage today, and they have become significantly more complex and feature-rich. While high-end drones like the DJI Mavic Pro are capable of all sorts of aerobatics and videography, not everyone can afford one, so there is a huge and growing market for cheaper drones that are still fun to fly and provide many of the features of their higher-end cousins. One such product is Eachine E58 RC Pocket Quadcopter Drone. While it is basically a smaller version of grandpa Mavic Pro, it is still loaded with features while being significantly more affordable. Let's check it out! Gadget on! what is it? Eachine E85 Quadcopter Drone is a small, foldable, radio-controlled drone that is styled to be, in appearance and essential features at least a miniature version of the larger and much more expensive DJI Mavic Pro drone. So it's basically a drone clone (see what I did there?). Hardware specifications 2.4GHz remote control Glass lens FPV (First Person View) camera that can rotate from 0 to 90 degrees down which includes the following features: 2MP still camera 720p HD camcorder WiFi control (with app) compatible LED lamp with night light function Gravity sensor 6-axis gyroscope Headless Mode One-key takeoff and landing Bane Flight with mobile phone app Three speed modes Quadcopter includes 3.7V 500mAh rechargeable lithium battery One-key return 360-degree roll Micro SD card slot (short not included) Controller requires (4) AA batteries (not included) Time to full charge = 60-70 minutes Flight time = 7-9 minutes RC range = 80-100 meters

Dimensions: 27 x 19.5 x 5cm (arms not folded) 12.5 x 7.5 x 5cm (arms folded) What is in the package? 1 x Eachine E58 RC Quadcopter drone 1 x Transmitter 1 x 3.7V 500mAh Lipo Battery 1 x Micro USB Charging Cable 4 x Prop Guards 4 x Spare Parts (2 sets of 2) 1 x Small screwdriver 1 x User's Guide Design and features My first impression of the E58 was very small and compact when folded down. Less than I had imagined, in fact, and because of this it seemed very portable and easy to take with you. In fact, the E58 is small enough to almost fit in my palm, and is very light. But even when folded down it actually feels pretty solid, as it's not going to just fall apart on you if you bump it against something, the way many drones feel for me. It would be easy enough to place it in a backpack or other bag for transportation, but I think it could be turned up quite a bit if it wasn't put into some kind of case first- do a Google search for the E58 drone case and you can find some good options for this. Having thrown out the E58's four legs, my very next impression was that in appearance there really is a clone of the DJI Mavic Pro quadcopter drone, which is one of the current grandfathers of high-end drones. It is basically an almost accurate copy in appearance, but in miniature. I don't think this is a bad thing at all; I like the low-profile, futuristic styling of the Mavic Pro itself, and Eachine did a very solid job of mimicking Mavic Pro's Styling for their E58. Above, another view of the E58 with its arms fully expanded. E58's four props are each basically hinged twin props. This allows them to be foldable for transport and storage, but when they spin, centripetal acceleration will cause them to distribute outwards, essentially forming a single prop blade at the end of each of the E58's arms. Each of the props is marked A or B and each must be installed on the correct legs of the E58, or the drone will not fly optimally (if at all). In addition, the E58 contains four bumpers that can be attached to each leg to protect props. As a fairly new drone pilot I installed these on the E58 before I took it out for its first test flight, as shown in the image above. In fact, these bumpers saved the E58 from my flight control learning curve several times, as I appeared to repeatedly find objects in my garden to collide with. To me, the front of the E58 almost seems to be a face as shown above. There are two lights on either side of a grille, with the E58 camera mounted on the chin position. The E58 camera is mounted on the pivot which, although not moving side to side, can be placed manually from zero degrees (straight forward) to 90 degrees (straight down) before the flight, as shown above, and it glides smoothly along the track, not in discreet stoppoints. The camera has a glass lens for clarity and friction to keep its position in place when set, even during crashes. Pressing the power button at the top of the E58 turns it on. As shown in the image above, there is a column of three blue LED lights on top of the E58s hull which to me resembles the logo of the popular game Destiny. (Probably a coincidence, but still funny.) In any case, these three LEDs are not battery power level indicators as you might expect; they only indicate when the E58 is turned on. As mentioned above, the E58 has a pair of white lights on the front that, when lit, appears to almost be headlights, as shown in the photo above. Having two headlights on the front can help with visually determining the orientation of the E58 in lower light flight conditions. In addition to the headlights on the front, the back of the E58 includes a single red light pole that resembled the car's taillight, as shown in the image above. Again, this light on the back can help visually determine the direction of flight of the E58. Let's take a look at the underside of the E58. As shown in the photo above, a small antenna resembling a short length of fishing protruding from the back of the drone. You can also see some of the electronic innards of the E58, visible through the slats of a grille on the lower abdomen. There are several sets of grills and holes around and on the underside of the E58, presumably to allow heat to escape during the flight, since I noticed that the E58 gets quite hot after just a few minutes of operation. Another feature located on the underside of the E58 is the Micro SD card slot, which is spring-loaded, so the card clicks into place when pressed and clicks back out when pressed again. The E58 video and still camera can record to this Micro SD card during flight. The drone can take up 720p on board this card. Please note that a Micro SD card is not included, you must deliver your own. The E58 is powered by a single rechargeable 3.75V battery that slides into a slot on the back of the drone, as shown in the image above. This battery is charged by simply connecting the supplied micro USB cable, as shown in the image above. When charging, a small red LED lights up, which turns off when the battery is fully charged, which is usually about an hour if it is completely discharged. Then, let's check out the E85 controller. As shown in the image above, it has two joysticks and several buttons all used to control various functions of the E58 during the flight. It resembles the styling of the DJI Mavic Pro drone controller as well, which I suspect is not a coincidence. The controller has two foldable antennas, which appear to be for styling purposes only and not for any kind of actual function. In addition, the controller has a hidden drawer that slides out from the bottom and can be used to mount a smartphone (more on this below). The controller's smartphone tray held a phone as large as an iPhone 6 Plus, as shown above; But this seemed to be putting quite a lot of load on the drawer and I would not recommend placing a phone quite so wide here. The E58 controller is powered by three (3) AA batteries that are not included. However, a small screwdriver is included, which facilitates the removal of the small screw that holds the battery cover in place, as shown in the picture above. Just make sure not to lose that screw, otherwise you will be screwed (pun intended). If you push the on/off switch in the center of the E58 controller, it is switched on, which is indicated by the lighting of a small blue LED, as shown in the image above. As with the E58 drone itself, this LED lamp appears to be in a bank of four that seems to indicate the power level of the controller battery, but this does not seem to actually be the case; only the second LED from the left is ever illuminated, and this never seemed to change regardless of the controller's remaining power level. Let's take a look at the controls, starting with the front of the The left joystick controls the gas; the throttle is increased, the throttle is reduced. Letting go of the stick makes it possible to center itself. Pushing the pin right or left will rotate or yaw the drone about its vertical center axis in that direction. Pushing the right joystick up or down controls forward and backward movement of the drone, while pushing the right side pin right or left slides drone sideways in that direction. Another feature of the joysticks is that the E58 can be calibrated by pushing both joysticks down and to the right. The arrow buttons in the upper-left and upper-right corner of the controller are fine-tuning left and right controls. The hollow up and down arrow buttons to the left of the on/off switch are one-touch start and one-touch country buttons. The one-touch start button starts the engines and immediately launches the drone into the air, while the one-touch land button brings the drone down to the ground quite gently, then kills the engines. The full-face up and down buttons to the right of the on/off switch are the fine-tuning and backward controls. Then let's look at the four buttons on top of the controller, as shown in the image above. From the left side, the button at the top left, furthest from the front of the controller, operates Headless Mode (a short press) and One-Key Return (a longer press). Headless mode essentially makes drone aircraft as if the controller is the reference point; I found this mode to be difficult to adapt to. One-Key Return was a little dodgy. Because this is a lower-end drone without the GPS capability of the higher-end drones, this return feature doesn't work as well as you might expect. It basically turns the drone around to a headline pointing at you, but you actually have to fly it back to your position yourself; it does not fly to you. The button at the bottom left, closest to the front of the controller, is the Photo/ Video button, although this button never seemed to work; I had to check the still image and camcorder features with the app on an iPhone (see more on this below). By moving to the right, the button at the top right, furthest from the front of the controller, operates 360 Flip (a short press) and Emergency Stop (a longer press). 360 Flip is fun; press the button, then press the right joystick left or right to force ED58 to turn in that direction. Also be very careful with the emergency stop - it kills all the engines immediately and the drone falls to the ground like a rock, which can be very harmful if the drone is at high altitude and falls on a hard surface (fortunately I only tried the E58 on grass). The button in the lower-right corner, closest to the front of the controller, is speed switch. This cycles drone from 30% to 60% to 100% then returns to 30% speed level with each pressure. As a neophyte drone pilot, I kept the E58 for 30% most of the time while I acclimatized to the controls, but I can tell you that 60% and 100% speed settings are pretty fast and experienced pilots will really like them. Then I tried to control the E58 via app. Eachine recommends an app called JY UFO that I downloaded for free from the iOS App Store. Since the E85 has WiFi functionality and essentially projects a mini Wi-Fi hotspot, I followed the instructions on the app and connected the drone to the iPhone by going to Setting on iPhone, then Wi-Fi, then selected a signal called WIFI-720P-DA616D, seen above. This essentially connected the iPhone to the E58 just as if it were a WiFi router; However, this is really just a link between the E58 and my iPhone, with no actual internet access and no data roaming, so you don't have to be within range of an actual WiFi router to make this work. I then re-launched the JY UFO app and started playing with the controls. The image above shows what I saw on the JY UFO app. The background of the app is what the E58 camera sees at all times. Left and right joysticks, as well as other controls, are simulated on the app's screen. In addition, the E58 app is controlled in gyro mode, which bypassed the simulated joysticks on the screen and allows you to control the flight attitude of the E58 by tilting and tipping it. But I found this to be quite challenging (I probably need a lot more practice on this). Another way to control your E58 with the app is Mission Planner mode, where you track a path on the app's screen, then directs the app E58 to fly in that path. I did not find this mode to check to be so accurate or useful. Of particular interest is that, as mentioned above, I could only control the still and video recording features using the app, not the controller. Using the JY UFO app allowed me to record both photos and video in 1280x720 resolution; still images were saved in my iPhone photos, while the video was saved to the Micro SD card. The photos had quite a fisheye effect, but the video recording didn't. Although I found E58's dedicated controller one, but easier to learn, I liked to have the flexibility to control it with the app instead; In this way, if I wanted to leave the controller behind to save space, I always have my phone with me as controller. I flew it a little over my roof. I could imagine using the E58 to check out how dense my gutters are, or even looking for shingles after a severe storm; But the resolution does not give in to a good deal of detail. I even followed one of my pugs around with it. (FYI, she didn't seem to pay much attention, unless I flew very close to her.) I didn't have the ability to fly the E58 under elevated wind conditions, but I had some gusts here and there, and it remained surprisingly stable in these conditions. I was able to get about 8-10 minutes of flight time before the E58 battery was tapped, as it indicated by flashing the lights just before it completely died. However, you can buy more batteries and replace them for longer flight sessions. What I like Very portable: small, compact size and easily Styled as DJI Mavic Pro Quadcopter Drone Stable- can basically soar if you can get it set up correctly, which is great for photos and videos Pretty easy to fly when you get the hang of it (but I still need some practice!) Quite robust to crashes despite having a fragile appearance and feel What needs to be improved Camera / video button on the controller appears to be non-functional; These features can only be controlled when using the smartphone app instruction book is very difficult to understand due to the broken English translation (presumably from Chinese) Final tanks EACHINE E58 RC Pocket Quadcopter Drone is a small, lightweight, miniature drone that has many features, is quite easy to learn and quite fun to fly when you get the hang of it. It can also record some decent photos and videos and has several options to control it. Getting started with what you actually get with this drone and its fun factor, I think it's a pretty decent value for the price of \$75.99. Update 6/26/20 I had fun with this little drone for a while, but I think it's a bit overpriced for its quality level. Price: currently \$64.99 Where to buy: Can be purchased directly from Eachine, from Amazon Source: The product sample for this review was provided by Eachine. Support Gadgeteer: We can earn a small affiliate commission from purchases made from buying through links on our site. As an Amazon Associate, I earn qualifying purchases. get more information. More.

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