Mavic pro owners manual

As Mavic flies, he scans the world around him, creating a 3D map that specifies exactly where he can fly and what to avoid. Since it uses visual processing, it can see up to 98 in front and can accurately measure the distance to the front of 49, making it significantly more accurate than sonar-based tax technology. When Mavic detects an obstacle and sees the path around him, he just adjusts his route to fly around him. If he can't see the way around, he'll slowly stop gently and hover over until he tells you what to do next. This obstacle avoidance system is activated in every advanced flight mode, including all ActiveTrack modes, TapFly and Terrain Follow. If you use automatic return to the house, it also turns on to bring mavic back to you, he will not turn anything on his way. Avoidance is effective when flying at speeds up to 22 mph. Version v2.0 Download 5422 File size 16.16 MB File Count 1 Create date March 16, 2018 Last updated on March 16, 2018 (V2.0, 2017.12) From here you can download the detailed PDF instruction manual Mavic drone Pro quadcopter. Reading a guide before your first flight with the DJI Mavic Pro can save you from many worries. The Mavic Pro user manual contains the following sections: Using the remote control; Dual remote control mode; Download and install dji go app; flight limits and no-fly areas; Calibration of the compass; Starting/stopping engines; Intelligent flight modes. FirstQuadcopter is not a comercial blog. We're not selling anything! We can get a small commission for the purchases you make through some selected links or headers – this keeps our drone blog online. On our full responsibility page click here October 26, 2020 Halloween is not just about spooky monsters, haunted houses, and candy everywhere. This is the first sign that Christmas is coming and it's time to prepare gifts for loved ones. Halloween starts winter sales at many online retailers so you can catch pretty good drone deals. To find a topic, search for keywords, such as battery life and install. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F in Windows or Command+ F on a Mac to start the search. Read the following documentation before using MAVIC Pro: 3. Mavic Pro Quick Start Guide 4. Mavic Pro Disclaimer and Safety Guidelines 5. Mavic Pro Intelligent Flight Battery Safety Guidelines We recommend that you watch all educational videos on the official DJI website and read Responsibility before flying. Get ready for the first flight by reviewing the Mavic Pro Quick Start Guide and for more information in the user guide. The DJI Mavic Pro is DJI's smallest flying camera, featuring a fully stabilized camera, advanced flight modes and obstacle avoidance inside a revolutionary folding design. It captures 4K 12 megapixel photos, and can both ActiveTrack and TapFly make complex shots light. Mavic Pro boasts a maximum flight speed of 40 to 40 (65 kph) and maximum flight time: 27 minutes*. * Maximum flight time was tested with 0 winds consistently at 15.5 mph (25 kph). This value should only be used as a reference. Features of The Highlights Mavic Pro is an ultra-portable aircraft thanks to its revolutionary folding design. Camera and Gimbal: With the Mavic Pro, you're shooting 4K video up to 30 frames per second and capturing 12 megapixel photos that look crisper and cleaner than ever, all stabilized by a compact on board gimbal. Flight controller: The next generation flight controller has been updated to provide a safer, more reliable flight experience. The aircraft can automatically return to its home point when the transmission signal is lost or when the battery level is low. The aircraft can not only stick the door at low altitudes, but also feel and avoid obstacles on its route, increasing safety. HD Downlink: Integrated into the remote control is DJI's latest long-range transmission technology, OCUSYNC, offers a maximum transmission range of 4.3 km (7 km) and allows you to control your plane up and stream video to your mobile device at 1080p. All hands of the aircraft are folded after delivery. To extract all hands, follow the instructions below. Preparing for the aircraft Remove the gimbal cap and gimbal clamp from the camera. The gimbal cap is used to protect the gimbal. If necessary, remove it. Use the Gimbal Clamp and Gimbal lid to protect the gimbal when the Mavic Pro is not used. Fastening the propeller Attach the white ringed screws to the mounting base with white markings. Push the screw down onto the mounting plate and turn in the direction of locking until it is fixed. Attach other propellers to the mounting base without markings. Unfold your hands 1. Expand the front hands, then the rear hands of the aircraft as shown. 2. Uncover all propeller knives. 1 2 Content 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 GefaltetH83 mm x W83 mm x L198 mmDiagonale Größe (Ohne Propeller)335 mmGewicht (Mit Akku & Propellern)734 g (ohne Gimbal-Deckel) 743 g (einschließ Gimlichbal-Deckel)Max. Steiggeschwindigkeit5 m/s im Sport-ModusMax. Sinkgeschwindigkeit3 m/sMax. Fluggeschwindigkeit64.8 km/h im Sport-Modus ohne WindMax. Höhe Über NN5000 mMax. Flugzeit27 Minuten (ohne Wind mit konstanten 25 km/h)Max. Schwebezeit24 Minuten (Kein Wind)Gesamte Flugzeit21 Minuten (and normalen Flug, 15% Batteriestatus übrig)Max. Reichweite13 km (kein wind)Betriebstemperatur0° bis 40° CPositionsbestimmungGPS / GLONASSSchwebefluggenauigkeitVertikal: +/- 0.1 m (mitiver Positionsbestimmung) steering wheel +/-0.5 mHorisonttal: +/- 0.3 m (mit aktiver Positionsbestimmung) oder +/-1.5 mBetriebsfrequenzFCC: 2.4-2.4835GHz; 5,150 to 5,250 GHz; GHzCE: 2.4-2.4835 GHz; 5.725-5.850 GHzSRRC:2.4-2.4835 GHz;5.725-5.850 GHz;5.725-5.850 (EIRP)2.4GHzFCC:5.2 GHzFCC:5.8 GHzFCC:Operating Frequency2.400 GHz to 2.483 GHzMax. Transmission rangeFCC compliant: 7 kmCE compliant: 4 kmSRRC compliant: 4kmWithout interference and obstaclesOperating temperature0° to 40° C battery2970mAhRadiation power (EIRP)FCC:≤26 dBm CE:≤20 dBmOperating voltage950 mA x 3.7VSupported mobile device sizeSupported thickness: 6.5-8.5 mm Max. Length: 160 mmMobile device holderSmartphones and tabletsVideo outputSupported USB interfaces Lightning, Micro-USB, Type B, Type C™Transmitter Power (EIRP)FCC:≤26 dBm CE:≤20 dBmSRRC: Controlled rangeNick axis: -90° to +30° Pivot axis: 0°or 90° (horizontal and vertical)Stabilization3 axes (nicking, swiveling, yaw)Sight systemsForward-oriented visual systemDownward-directed sight system Obstacle detection range: 0.7 up to 15 m range: 15 to 30 mOperating environmentSurfaces with clear contours and sufficient illumination (Lux > 15)Speed range≤36 km/h at 2 m above groundHeight range0.3 -13 mOperating range0.3 - 13 mMobile AppDJI GOEIRP100 mWSpectral Power density6.9 mW/MHzLive 1080p@30fps view Qualität720p@30fps 720p@30fps(Wi-Fi) 720p@60fps-1080p@30fps(DJI Goggles)Latency160-170 ms (depending on conditions and mobile device)Sensor1/2.3 pixels effectively:12.35 megapixels (pixels total : 12.71 MP)Lensfield view 78.8°, 26 mm (equivalent to 35 mm format), f/2.2 distortion < 1.5% focus from 0.5 m to ∞ISO range100-3200 (video)100-1600 (photo)Electronic shutter8 s -1/8000 sMax. Image size4000×3000Photo modesSingle image capture Serial image: 3/5/7 Image Exposure Series: (AEB): 3/5 focused frames at aperture opening 0.7IntervalVideo recording modesC4K: 4096×2160 24p 4K: 3840×2160 24/25/30p 2.7 7K: 2704×1520 24/25/30p FHD: 1920×1080 24/25/30/48/50/60/96p HD: 1280×720 24/25/30/48/50/60/120pMax. Video Bitrate60 MbsSupported File SystemsFAT32 (≤ 32 GB); exFAT (> 32 GB)PhotoJPEG, DNGVideoMP4, MOV (MPEG-4 AVC/H.264)Supported SD memory cardsMicro SD™ Max storage capacity: 128 GB. Klasė 10 arba UHS-1Operavimo temperatūra0° iki 40 ° COpersododododo 80 m (atstumas), 50 m (aukštis) be kliūčių ir rūpesčiųMax. Greitis14 km/hMax. Laipiojimo greitis2 m /sMax. Plautuvės greitis1 m/s Įtampa13,05 VRated Power50 WCapacity3830 mAh|galioja11,4 VBattery TypeLiPo 3SEnergy43.6 WhNet WeightApproximately 240 gOperating Temperature5° to 40° CMavic Pro Release Notes (English)Mavic Pro User Manual V1.6Mavic Pro Quick Start Guide v1.4Mavic Pro Saugos gairės ir atsisakymas v1.0Mavic Pro Intelligent Flight Battery Safety Guidelines v1.0Mavic Battery Charging Station Vartotojo vadovasMavic Propeller Cage Vartotojo vadovas v1.2DJI GO 4 iOS Mavic Pro Leidiniai NotesDJI GO 4 Android Mavic Pro Release Notes iOS V4.3.37 reikalinga iOS 10.0.0 arba naujesnė versija (Mavic 2 Pro / Zoom reikia iOS 10.0.2 arba naujesnės versijos). Suderinamas su iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone SE, iPad Pro, iPad (6th generation), iPad Air 2, iPad mini 4. Compatible with Samsung S9+, Samsung S9, Samsung S8+, Samsung S7, Samsung S7 Edge, Samsung S6, Samsung S6 Edge, Samsung Note 8, Huawei P20 Pro, Huawei P20, Huawei P10 Plus, Huawei P10, Huawei Mate 10 Pro, Huawei Mate 10, Huawei Mate 9, Huawei Mate 9, Huawei Mate 8, Honor 9, X20, Vivo X9, OPPO X X, OPPO, OPPO, OPPO R11, Mi Mix 2S , Mi Mix2, Mi 8, Mi 6, Redmi Note 5, Google Pixel 2XL, OnePlus 6, OnePlus 5T.*Other devices are being tested. Dlog 3DLUT User GuideDJI Assistant 2 releases NotesProduct1.What are the main differences between Mavic and Phantom 4? Mavic is smaller, lighter and easier to transport due to its folding design. The new OcuSync transmission system has a higher transmission range and a resolution of 1080p. Phantom 4 is larger, so it has a higher speed and can withstand stronger vėjus.2.Ar the folding mechanism over time takes off and needs to be replaced? During the test, the folding mechanism was folded up to 5000 times. It is very unlikely that it will wear off. 3.Where are the differences on mavic and phantom 4 camera? Two cameras have the same features, but the Mavic camera has a smaller field of vision, can focus up to 0.5 meters and rotate 90° portrait shots and selfies. The larger Phantom 4 field of vision makes it more suitable for landscape photography. 4.Is Mavic Pro water? No. Mavic chassis is very close to the ground when it descends, always descends only in dry and flat places. Camera1.How do I turn on the Autofocus of the Mavic Pro camera? Focus is an important function to capture sharp images. To enable autofocus, follow these steps:1.Tap the screen when you're in the CAMERA interface of the DJI GO app.2.Long tap the screen to enable autofocus in ActiveTrack, TapFly, and gesture mode. This function must be enabled in general settings.3. Focus the center by pressing the custom button. C1 is set by default and can be used during normal flight or in active intelligent flight modes.2.When shooting in manual focus mode, my photos are blurry, even if I set the focus slider to infinity. Why? Mavic's focus range is 0.5 m to infinity. Adjust the bar until you reach the focus point. Adjust directly infinitely does not guarantee sharp focus.3.Can I zoom during recording? Mavic Pro supports dual digital zoom, but no optical zoom. You can zoom in, Tap directly on the screen or through the customizable buttons.4.How do I turn on portrait mode? Drag the screen to the left and tap the portrait/landscape icon or use customizable buttons. Remote control and Wi-Fi1.What is the difference between remote control when using a smartphone and Wi-Fi? Mavic remote control uses DJI's new OcuSync transmission system to provide a better range of up to 7 km in open locations compatible with the FCC. When you connect a smartphone over Wi-Fi, the controlled range is 80 m and the maximum height is 50 m. Perfect for selfies and ActiveTrack. You can download videos and photos directly to your mobile device using Wi-Fi. The switch on the right side of the aircraft makes it easy to switch between control mode. Select Wi-Fi and RC mode based on what you need.2.How do I switch back and forth between two control modes? First, make sure your aircraft is turned off. Then you need to open a small opening on the right side of the aircraft. Slide the switch to the left to switch to Wi-Fi, move the switch to the right to use the remote control.3.What size should smartphones fit into the remote control? The Mavic remote control is suitable for smartphones 6.5-8.5 mm thick and up to 160 mm in length without a case. Larger smartphones and tablets don't fit in the remote control holder. 4.Ar can I use a regular USB cable to connect my smartphone to the remote control? Yes, it is possible for the best user experience, but we recommend using the associated Mavic RC (remote control) cable to connect your smartphone.5.What remote control cables are included in the purchase of Mavic? The package contains three cables: a Lightning cable and a standard micro-USB cable, as well as a Type C USB cable.6.What is a standard Wi-Fi SSID and a standard password? For security reasons, each Mavic has its own SSID and password. This can be found on the sticker on one of the front hands and batteries section. When you're using it for the first time, you can scan the QR code with the DJI GO app to connect the aircraft*, or manually enter a password in your smartphone's Wi-Fi settings. (*Available only on Android devices) 7.Ar can I use other QR code apps to connect an aircraft to Wi-Fi? No. It is possible only through DJI GO.8.How can I set wi-fi ssid and password myself? Connect your Mavic over Wi-Fi and go to the camera image. Then open wi-fi settings and manually set SSID and password.9.How do I reset my Wi-Fi password? Turn on Mavic's Wi-Fi mode and hold the connection button for 5 seconds are dual band Wi-Fi benefits? The 2.4G Wi-Fi frequency was developed a long time ago, 5G frequency is much more modern. Due to the frequency of 2.4 G, it uses more devices, making it more sensitive to interference. 5G is less prone to interference because there are much fewer 5G devices. However, not all smartphones use 5G frequency. You can switch frequencies in the Wi-Fi settings of the DJI GO app.11.What customizable buttons does Mavic Pro have? The C1, C2 and 5D button on the remote control button is freely adjustable. Defaults: C1: Focus on Center, C2: Play, 5D Floor: Recenter Gimbal, 5D Down: Gimbal Tilt Down, 5D Left: Zoom, 5D Zoom Right. 12.What is the function of the pause button on the remote control? Button puts Mavic Pro hovering flight location.13.What is the difference between a standard micro-USB cable and a return Mico USB cable? Display smartphone: Standard Micro USB connector The inverse Micro USB connector The smartphone on the right has a refinetable micro USB port. Standard micro USB cable compatible with: Samsung, Huawei, Motorola and much more. The reverse Micro USB cable is compatible with: HTC, Xiaomi, OPPO and much more. The compatibility between Sony, VIVO and other brands depends on the model. Be sure to choose the right smartphone connection. Drive1.Do I have to remove the transport screws? No. Just fold the screws and you are ready to go.2.What happens if the screws are not fully open before take-off? As soon as the rotor starts to rotate, the centrifugal force ensures that the screws automatically slip to the correct position. So you don't have to worry if you've folded out propellers perfectly.3.The Engines from Mavic are not all at the same level. Does this affect flight efficiency?4.What is the maximum wind strength that Mavic can withstand? Mavic can withstand up to level 5, a refreshing breeze. In numbers, wind speeds are 29-38 km / h.5.How mavic can fly with one charge? With calm weather and ideal conditions, Mavic can fly at speeds of up to 13 km at 50 km / h. Actual performance may vary, always monitor the battery status.6.Why Mavic has a longer flight time rather than a longer shelf life. Therefore, the floating energy consumption is higher. That's why you'll be able to get up to 27 minutes of flight time and only up to 24 minutes of vision time from Mavic. Video transfer1. Where are the main advantages of OcuSync has a range of up to 7 km with better interference resistance and higher transmission power. Over a shorter distance, this technology can broadcast at 1080p resolution and allows you to download videos and photos up to 40Mbps.2.What is the resolution transmitted via OcuSync?1080p/30fps for the short range and 720p/60fps for long-distance transmission.3.How high is the latency resolution when transmitted to OcuSync? In ideal conditions, the camera delay is about 160 ms. Visual system1. What is the difference between fast calibration and advanced calibration? If sensor systems stop normally, you can quickly calibrate your DJI GO application or connect your aircraft to your computer for advanced calibration to increase accuracy.2.What is the difference between Mavic's advanced visual positioning system and optical flow visual positioning system? Mavic combines dual vision sensors facing forward and down to allow accurate vision. Therefore, Mavic needs only enough light and a clearly structured surface to start 13 m above the ground. Even if Mavic can't set reference points on the ground, she can still use her front vision sensors to float. On the contrary, the optical flow system requires information about ultrasound to complement your image of the earth. The difference between the systems can be illustrated imfaced with the balcony to which the aircraft must return. When flying over the balcony, optical flow systems use two sets of data, which measure the height differently above the surface and below the surface. Some height above the floor and some height above the balcony. If these data are not compatible with each other, the system with an optical flow may be confused. Another example would be if the earth under the drone is covered growing up growing up. Plants and trees do not reflect noise, as well as other surfaces, resulting in a lack of data for ultrasonic sensors. Mavic's advanced visual positioning system requires less data, making it more reliable for its functionality. 3.What is Mavic's minimum distance and maximum flight speed where he can avoid obstacles? Mavic automatically avoids obstacles up to 15 meters in front of him. The maximum speed at which Mavic can avoid obstacles is 30 km/h. 4.Under what conditions can exactly land? The exact descent is an improved version of GPS RTH. It requires a strong enough GPS signal to start the exact landing so that Mavic can go back to his launch site. The aircraft must then be visually recognize the ground structure of the starting point. A sand dude, for example, would not be the right place for an exact landing. Mavic must record the relevant footage from the ground during his start. This means that Mavic needs enough time during his ascent and has to get about 10 meters above the starting point. The start of lightning makes this feature much more difficult. Charging1.Ar Mavic charger can charge intelligent flight battery and remote control? Yes, the charger can charge one battery and two other devices via USB at the same time. However, this increases the charging time of all devices. 2.Ar battery supports Mavic fast charging? So. Intelligent Flight Battery supports fast charging up to nearly 2C, with a maximum charging current of 100 W. Mavic chargers have a rated power of 50 W and mavic car charger rated power of 78W. With mavic's enhanced battery charge station with 100W adapter, the battery can be charged at 100W.3.What is a battery charge station? What is the difference between the two versions of mavic battery charging stations? Two battery charge stations can charge up to four batteries at a time. To charge the first battery as quickly as possible, intelligent flight Batteries are charged in a row, depending on their high to low charging state. This is the fastest way to charge all batteries as quickly as possible. There are two differences between two battery charging stations. First, the standard battery charging station only supports the Mavic 50W charger and car charger, while the improved version also supports the Phantom 4 100W charger and car charger. Secondly, the improved version balances the voltage of each battery cell to improve charging performance. When one battery reaches the second half of the charging phase, the other battery enters the first half of the charging phase. If the charging capacity of all four batteries is 15%, an improved battery charge station can charge all four batteries with a Phantom 4 100W charger in 140 minutes. The standard version lasts 270 minutes with Mavic's 50W charger. 4.What is mavic power bank adapter battery? This adapter can turn your Advanced Flight Battery Mavic into a Power Bank. Due to the high capacity, intelligent flight battery with only 25% charge can fully charge mavic remote control or even iPhone 6.5.What is the maximum adapter output current? The adapter has two USB ports that can be used at the same time. The output voltage is 5V and the maximum current is 2A + 2A. Travel advice1. How many batteries can I carry in Mavic's shoulder bag? Four. One battery is inserted into Mavic, one at the bottom of the bag and two of the two Firmware1.If I use the DJI GO app to update the firmware, can I run the update in the background while using other applications at the same time? No. In this scenario, the DJI GO will display an error message. You need to reconnect to the Internet again update.2.After successfully downloading the firmware, can I disconnect from the Internet and perform an update? 3.Ar update will fail if the battery status of the aircraft or remote control is less than 50%? The update will not start if the battery status is less than 50%. After downloading the software, make sure that the aircraft and remote control have sufficient power to perform the update. The update will continue as usual if the battery level drops below 50% during the upgrade.4.Will the remote control be updated if the aircraft is upgraded via USB? No. In this case, only the aircraft will be upgraded. Please follow the instructions if you use dji assistant 2 update. 1. Only update the remote control: Turn off the aircraft and connect the remote control via USB to your computer. 2. Upgrade only the aircraft: Connect the aircraft to your computer via USB. 3. To update the aircraft with the remote control together: turn on the aircraft and connect it to the remote control, then connect the remote control to the computer via USB. When the aircraft and remote control are connected to the computer, DJI Assistant 2 connects to the first connected device. 5.When the remote control is connected via USB, my DJI Assistant 2 stops responding. Why? The remote control does not support hot swaps. Before connecting the remote control to your computer, make sure it's turned off. Turn on the remote control after reconnecting.6.What happens if the battery firmware version deviates from the aircraft version? DJI GO regularly examines the versions of all devices by match. If you're having problems, follow the instructions in the DJI GO app to get the following update. 7.Ar can I upgrade via the DJI GO app when I use Wi-Fi to use the aircraft? No. In this scenario, the update is not available. However, other components of the aircraft's current firmware can be updated. 8.What does it mean if the progress bar gets stuck during the update? Both devices have different update speeds. The remote control takes about five minutes, the aircraft is ten minutes and it takes about fifteen minutes to upgrade both at once. If the upgrade takes longer, check your Internet connection and connection to the USB cable. If everything is in order, restart your device Try again. 9.What happens if the remote control is disconnected from the aircraft during upgrade. Please follow the instructions for use and reset the connection between the remote control and the aircraft. Check the version number to make sure both devices are up to date. 10.If the update continues to fail, follow these instructions: 1. Check that the battery status is at least 50% before you start the update. 2. Check that the device has not been turned off during the upgrade. In this scenario, turn the device back on. 3. An internet connection problem during upgrade may cause the update to fail. You can disconnect the aircraft from your computer after the update software has been successfully downloaded. When the update is complete, connect the aircraft to your computer via USB. DJI GO now shows the update 100%. 4. If the update continues to fail or if the remote control does not connect to the aircraft, this may be the cause of discrepancies between the firmware of the devices. In this scenario, use DJI Assistant 2 on your computer to upgrade the devices seperat to the latest version. It is normal to have the remote control restart several times during the upgrade. If connected to the aircraft, it reconnects twice. New.