PHANTOM 4 PRO/PRO+ V2.0 FAQ

➢ PRODUCT

1. What are the main similarities and differences between the Phantom 4 Pro V2.0 and Phantom 4 Pro?

   The Phantom 4 Pro V2.0 uses the same camera as the Phantom 4 Pro and is equipped with a 1-inch 20-megapixel sensor capable of shooting 4K/60fps video at 100Mbps. Also, like the Phantom 4 Pro, V2.0 features a 30-minute maximum flight time and 7-kilometer long-range control. The remote controller of the Phantom 4 Pro V2.0 also supports 2.4 and 5.8GHz frequency switching, and a remote controller a with built-in screen is also available.

   Different from the Phantom 4 Pro, the Phantom 4 Pro V2.0 is equipped with an OcuSync transmission system, which allows the drone to connect to DJI Goggles wirelessly. The Phantom 4 Pro V2.0 also features an upgraded propulsion system with FOC sinusoidal driver ESCs and 9455S quick-release propellers that reduce noise and make the drone more aerodynamic.

   *The remote controller of Phantom 4 Pro V2.0 is not compatible with the Phantom 4 Pro, which uses Lightbridge transmission. Other accessories such as batteries, chargers, AC cable, propeller guards, and ND filters are compatible with both the Phantom 4 Pro and Phantom 4 Pro V2.0.

2. What, if any, are the main differences between the Phantom 4 Pro V2.0 and Phantom 4 Pro Obsidian?

   The Phantom 4 Pro Obsidian comes in a matte black casing. Functionally, the Phantom 4 Pro Obsidian is the same as the Phantom 4 Pro. As such, the main differences between the Phantom 4 Pro Obsidian and Phantom 4 Pro V2.0 are mentioned in question 1.

3. Which Micro SD cards are supported?

   Currently supported Micro SD cards are:
   Sandisk Extreme 32GB UHS-3 V30 MicroSDHC
   Sandisk Extreme 64GB UHS-3 V30 MicroSDXC
   Panasonic 32GB UHS-3 MicroSDHC
   Panasonic 64GB UHS-3 MicroSDXC
   Samsung PRO 32GB UHS-1 MicroSDHC
   Samsung PRO 64GB UHS-3 MicroSDXC
   Samsung PRO 128GB UHS-3 MicroSDXC
   *It's not recommend to use the Patriot EPPRO 64GB MicroSDXC UHS-3.

4. Will the Phantom 4 Pro V2.0 have an Obsidian version in the future?

   No.

➢ CAMERA

1. What are some key features of the Phantom 4 Pro V2.0's camera?

   The Phantom 4 Pro V2.0 camera is still equipped with a 1-inch 20-megapixel sensor and has a manually adjustable aperture from F2.8 to F11. It also supports autofocus by half-pressing the Shutter button and has a focus range from 1m to infinity. Always refocus before capturing additional shots if the subject has moved beyond the focus point. Focus at infinity if the subject is over 98ft (30m) away. Refocusing is also needed when switching from close shots to long shots during recording.

2. What advantages does the Phantom 4 Pro V2.0 have for shooting video?

   The Phantom 4 Pro V2.0 can record UHD 4K (4096×2160) at 60fps, at a maximum bitrate of 100Mbps using the H.264 codec and also supports H.265. It also allows you to capture still images while filming.

3. What is the resolution and format of photos captured while recording video?

   Photos will be captured as JPEG in the same resolution as the video recording.

4. What is the advantage using the new H.265 video format?

   H.265 retains 50% more information than H.264, creating more detailed and vivid images.

5. What's the benefit of having a mechanical shutter?

   An electronic shutter may cause artifacts and distortion, such as jello, when shooting fast moving objects. A mechanical shutter prevents this and guarantees a high-quality image.

6. Does the Phantom 4 Pro V2.0 support focus adjustment?

   Yes. Tap a point on the display to focus at that point after switching from Metering to Focus mode. Autofocus can also be triggered by half-pressing the Shutter button before fully pressing the button to capture an image. Focus can be set between 1m and infinity.

7. What are the main features of the Phantom 4 Pro V2.0 camera lens?

   The Phantom 4 Pro V2.0 uses a camera lens optimized for aerial imaging, with an aperture range from F2.8 to F11 and a 24mm equivalent focal length. It's equipped with a mechanical shutter and adjustable aperture range, with autofocus support.

➢ OBSTACLE SENSING SYSTEM

1. When does the infrared sensing system work during flight?

   Only in Beginner mode and Tripod mode.

2. How does the infrared sensing system work?

   Available in Beginner Mode and Tripod Mode only, the infrared sensing system has a sensing field with a 70° angle horizontally and 20° angle vertically. The radiated infrared light is reflected back by obstacles, allowing the sensors to "see" them at a distance of up to 23ft (7m) by calculating the difference in projection and reflection times and using this information to create a 3D model of the environment and obstacles in it.

3. How does the Phantom 4 Pro V2.0's obstacle sensing system work?

   The Phantom 4 Pro V2.0 uses the same obstacle sensing system as the Phantom 4 Pro. Phantom 4 Pro V2.0's maximum forward obstacle sensing range has been extended to 98ft (30m), with the rear sensing system sharing the same capability. Additionally, the Phantom 4 Pro V2.0 is equipped with infrared sensors on both sides of the aircraft, precisely detecting the distance between the aircraft and obstacles within a range of up to 23ft (7m).

4. Is there any difference between the front and rear obstacle sensing systems?

   No.

➢ REMOTE CONTROLLER

1. **Is the remote controller of Phantom 4 Pro V2.0 compatible with that of Phantom 4 Pro?**

   No. The remote controller of Phantom 4 Pro V2.0 cannot be used with other Phantom series drones.

2. **What's new about the Phantom 4 Pro V2.0 remote controller?**

   The Phantom 4 Pro V2.0 remote controller is equipped with an OcuSync transmission system and can be connected to DJI Goggles wirelessly for immersive FPV flight at up to 72 kph in S-mode.

   The Phantom 4 Pro V2.0 is compatible with two remote controller types: the standard version and the built-in screen version. Both can switch between 2.4GHz and 5.8GHz frequency bands with a maximum controllable range of 4.3mi (7km) (unobstructed, free of interference, FCC compliant), and both can focus by half-pressing the shutter release button.

   The Phantom 4 Pro+ controller has a 5.5-inch 1080p display, with 1000 cd/m2 brightness and built-in DJI GO 4 app. Its remote controller is also equipped with an HDMI port, Micro SD slot, microphone, loudspeaker, and Wi-Fi connectivity.

3. Can I detach the integrated display from the Phantom 4 Pro+ V2.0 remote controller?

   No.

4. Can I connect an iOS device or Android device to the Phantom 4 Pro+ V2.0 remote controller to use DJI GO 4?

No.

5. Does the Phantom 4 Pro+ V2.0 remote controller have a built-in loudspeaker and microphone?

   Yes.

6. What is the resolution of the Phantom 4 Pro+ V2.0 remote controller display?

   1920×1080

7. What apps are preloaded on the Phantom 4 Pro+ V2.0 screen remote controller display?

   Popular social media apps and DJI GO 4.

8. What operating system does the Phantom 4 Pro+ V2.0 remote controller display use?

   It uses a customized DJI system.

9. Is the remote controller's screen display's brightness adjusted automatically or manually?

   Both.

10. Can I download other apps onto the Phantom 4 Pro+ V2.0 remote controller display?

    Users can install third-party apps when the Phantom 4 Pro+ V2.0 remote controller is updated to the latest firmware version.

11. Does the Phantom 4 Pro+ V2.0 remote controller support Wi-Fi and Bluetooth connectivity?

    It supports Wi-Fi but not Bluetooth.

➢ INTELLIGENT FUNCTIONS

1. What Intelligent Flight Modes are on the Phantom 4 Pro V2.0?

   The Phantom 4 Pro V2.0 features Intelligent Flight Modes such as TapFly, ActiveTrack, Draw, Gesture, Tripod, and more.

2. How do I use Narrow Sensing?

   First, set C1 or C2 to activate Narrow Sensing. When flying in a narrow space, activate Narrow Sensing, and the aircraft will adjust its sensing range and flight speed to fly safely through narrows gaps.

➢ PROPULSION SYSTEM

1. Can use I Phantom 4 Pro propellers on the Phantom 4 Pro V2.0?

   Yes. Phantom 4 Pro V2.0 and Phantom 4 Pro propellers are cross-compatible. However, Phantom 4 Pro propellers (9450S) are less aerodynamic and louder than Phantom 4 Pro V2.0 propellers (9455S propellers).

2. **How has the Phantom 4 Pro V2.0's propulsion system been optimized?**

New FOC sinusoidal driver ESCs not only reduce electromagnetic noise, but also improve the overall efficiency of the ESCs. Also, new 9455S quick-release propellers make the Phantom 4 Pro V2.0 more aerodynamic and reduce noise. It has the same maximum flight time and maximum speed as the Phantom 4 Pro.

➢ VIDEO TRANSMISSION SYSTEM

1. **What is the difference between the Phantom 4 Pro V2.0 and Phantom 4 Pro's video transmission system?**

   The Phantom 4 Pro V2.0 uses an OcuSync video transmission system and time division multiplexer that supports uploading remote control signal and receiving video transmission signal in the same frequency band. The Phantom 4 Pro uses a Lightbridge video transmission system.

   Both drones have a transmission distance of up to 4.3 mi (7km), and users can switch between 2.4 and 5.8GHz control frequencies to improve signal stability and cut through interference.

➢ BATTERIES AND BATTERY CHARGER

1. **Are the Phantom 4 Pro V2.0 batteries and battery charger compatible with the Phantom 4?**

   Yes.

2. **What is the capacity of the Phantom 4 Pro V2.0 battery? How much has the flight time been extended compared to the Phantom 4?**

   The battery capacity is 5870mAh. It flies for two additional minutes compared to the Phantom 4.

➢ FIRMWARE UPDATING

1. **During updating, if the battery level of the aircraft battery or controller battery drops below 50%, will the update process fail?**

   Yes. Always use a battery with more than 50% power when upgrading.

2. **What if battery firmware is not consistent with the updated aircraft?**

   Use DJI GO 4 to update the battery firmware to the appropriate version.

3. **What is the difference between updating the firmware on the Phantom 4 Pro V2.0 and Phantom 4 Pro?**

When updating firmware with the DJI GO 4 app for Phantom 4 Pro V2.0, confirm that the remote controller and aircraft are connected. Then download the firmware for the update following the prompts in the app. No OTG cable is required, unlike with the Phantom 4 Pro.

Please refer to the instructions below when using DJI Assistant 2 to update.
1. To update the remote controller only: Power off the aircraft and connect the remote controller to your computer via USB.
2. To update the aircraft only: Connect the aircraft to your computer via USB.
3. To update the aircraft and remote controller together: Power on the aircraft and link it to the remote controller then connect the remote controller to the computer via USB; Once the aircraft and remote controller are connected to your computer, DJI Assistant 2 will respond to the device that was connected first.