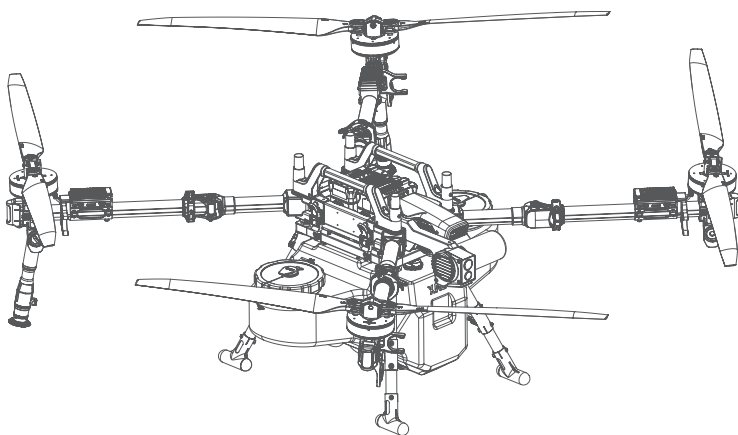


XAGP150Dron rolniczy 2024

(Model: 3WWDZ-60AH)

Instrukcja obsługi

Wersja 1.2.2



Do użytkownika

Drogi użytkowniku, dziękujemy za wybór produktów XAG.

Ze względów bezpieczeństwa i lepszego doświadczenia użytkowego zalecamy dokładne zapoznanie się z niniejszą instrukcją i ścisłe przestrzeganie zawartych w niej wytycznych.

Kontakt

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Adres: XSpace, nr 115, Gaopu Road, Guangzhou, prowincja Guangdong, Chiny

Wsparcie techniczne: support@xa.com

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Wyłączenie odpowiedzialności

1. Please read this document carefully before using the product, as it concerns both operational safety operacyjnego, jak i Twoich uzasadnionych praw i interesów. Korzystanie z produktu oznacza, że przeczytałeś, zrozumiałeś, zaakceptowałeś i przyjąłeś do wiadomości wszystkie warunki i informacje zawarte w niniejszym dokumencie.
2. The product is not intended for recreational use and carries certain safety risks. It is NOT suitable dla osób poniżej 16 roku życia, osób o ograniczonej lub zerowej zdolności do czynności prawnych, osób z niepełnosprawnością ruchową ani osób nieposiadających certyfikatów operatora rolniczych BSP, zgodnie z wymogami lokalnych przepisów prawnych. Proszę upewnić się, że osoby należące do tych kategorii nie mają kontaktu z tym produktem ani go nie używają. Zachowaj szczególną ostrożność podczas obsługi w obecności dzieci, tłumów lub zwierząt.
3. The product, manufactured by XAG, is a multi-rotor agricultural unmanned aerial vehicle solely przeznaczonym wyłącznie do użytku rolniczego. Proszę uważnie przeczytać niniejszą instrukcję, aby zapoznać się ze swoimi prawami, obowiązkami i wytycznymi bezpieczeństwa — w przeciwnym razie może dojść do strat materialnych, wypadków lotniczych lub obrażeń ciała.
4. User pledges to use the product within the bounds of the law only for a legitimate purpose and przyjmuje warunki niniejszego dokumentu oraz przyszłe zasady lub normy opracowane przez XAG. Użytkownik rozumie i akceptuje, że produkt posiada funkcje przesyłania i zapisywania danych lotowych i operacyjnych na serwer XAG podczas operacji. XAG nie ponosi odpowiedzialności za niemożność analizy wspomnianych zapisów i danych spowodowaną ich nieprzesłaniem i niezapisaniem z przyczyn leżących po stronie użytkownika.
5. Please install, use, transport, and maintain the product under the instructions of the User Manual. Nie wolno adaptować, modyfikować ani demontować produktu bez zezwolenia. Wszelkie usterki lub uszkodzenia spowodowane niewłaściwym użytkowaniem, adaptacją, modyfikacją lub demontażem produktu przez użytkownika będą objęte gwarancją, a wszelkie wynikające z tego odpowiedzialności finansowe i prawne ponosi wyłącznie użytkownik.
6. To the maximum extent permitted by law, under no circumstances shall XAG offer an implicit or wyraźnej gwarancji na ten produkt, w tym między innymi dorozumianych gwarancji dotyczących zbywalności, przydatności do określonego celu lub nienaruszalności praw.
7. To the maximum extent permitted by law, XAG shall not be liable for all losses incurred by user's niewłaściwego użytkowania. XAG nie odpowiada również za żadne pośrednie, wynikowe, karne, przypadkowe, szczególne lub przykładowe szkody, w tym straty wynikające z zakupu, użytkowania lub niemożności użytkowania produktu, nawet jeśli zostałeś poinformowany o możliwości takich strat.
8. To the maximum extent permitted by law, under any circumstances, the liability or compensation ze strony XAG za wszystkie szkody, straty i postępowania sądowe nie przekroczy kwoty, którą zapłaciłeś XAG za zakup produktu.
9. You understand that in the use of any products, accidents may occur due to single or combined złożonymi czynnikami, w tym między innymi niewłaściwą obsługą, otoczeniem i sieciami komunikacyjnymi. Rozumiesz, że wspomniane wypadki są uzasadnione i akceptowalne podczas użytkowania produktu i że XAG nie ponosi za nie odpowiedzialności.
10. On any account, purchaser or user shall comply with the laws and regulations of the country and regionu, w którym produkt jest używany. XAG nie ponosi odpowiedzialności wynikającej z naruszenia przez Ciebie odpowiednich przepisów prawnych.

11. Please note that, as services provided by the product and its auxiliary devices may involve the gromadzenie, przechowywanie i przetwarzanie informacji geograficznych i danych polowych, a użytkowanie produktu musi być zgodne z lokalnymi przepisami regulującymi te kwestie. W przeciwnym razie użytkownik ponosi wyłączną odpowiedzialność finansową i prawną za wszelkie nielegalne działania.
12. As exclusion clauses may be prohibited by some laws and regulations, your rights and interests mogą się różnić. Nie oznacza to jednak, że warunki zawarte w niniejszym wyłączeniu odpowiedzialności są koniecznie nieważne.
13. To the extent permitted by law, XAG reserves the rights for final explanation and revision of the powyższych warunków. XAG ma również prawo do aktualizacji, modyfikacji lub zakończenia tych warunków za pośrednictwem kanałów, w tym oficjalnej strony internetowej, instrukcji obsługi i aplikacji, bez uprzedniego powiadomienia.

Ostrzeżenie

Użytkownik powinien dokładnie przeczytać instrukcję obsługi i uzyskać certyfikat operatora BSP akredytowany przez lub zgodny z przepisami prawa i polityką swojego kraju lub regionu przed użyciem drona i powiązanych produktów. Niezastosowanie się może skutkować poważnymi obrażeniami, uszkodzeniem produktu lub utratą mienia. Użytkownik powinien wykazywać się dużą świadomością bezpieczeństwa. Ponadto ten produkt nie jest osób poniżej 16 roku życia ani osób o ograniczonej lub zerowej zdolności do czynności prawnych. Proszę instalować i używać produktu ściśle przestrzegając instrukcji w podręczniku użytkownika XAG.

Wtyczne bezpieczeństwa

Zasady bezpieczeństwa

- Please make sure that you have completed a drone pilot training program, passed the exam, and uzyskałeś certyfikat operatora BSP wymagany przepisami prawa w miejscu użytkowania produktu przed użyciem. W przeciwnym razie NIE wolno obsługiwać produktu.
- Instead of operating alone, the beginner should seek help from a veteran beforehand and operate drona w towarzystwie doświadczonego użytkownika.
- It is necessary to observe the surroundings in advance to ensure an open operation area with no budynków i przeszkód w pobliżu, wolnego od źródeł zakłóceń elektromagnetycznych, w tym linii wysokiego napięcia, stacji bazowych i wież radiowych, z dala od przeszkód i tłumów oraz wolnego od potencjalnych zagrożeń. Proszę nie latać wewnątrz budynków.
- Ze względów bezpieczeństwa zaleca się usunięcie wszystkich śmigieł przed każdym lotem lub po aktualizacji oprogramowania, aż do przeprowadzenia próbnego lotu drona, sprawdzenia urządzeń zdalnego sterowania, silników i innych modułów oraz upewnienia się, że wszystko jest w porządku.
- Please see that all parts are intact and that those aging or broken are replaced before each flight. Wszystkie urządzenia powinny być wystarczająco naładowane. Gdy bateria rozładuje się podczas operacji, należy natychmiast sprowadzić drona i wymienić baterię.
- Please see that areas where the drone is going to fly have good and stable signal coverage since nieprzerwane sieci RTK i 4G są niezbędne do prawidłowego działania drona.
- It is required to keep the firmware and the "XAG One" App up to date before each flight.
- You should strictly observe local laws and regulations on flying agricultural drones, including but not przepisów dotyczących wysokości lotu, strefy lotu i zasięgu wzrokowego.
- It is advisable to use the product on sunny, cloudy, or overcast days with winds of force 3 or below. NIGDY nie używaj go w niesprzyjających warunkach pogodowych, w tym w deszczu, śniegu, mrozie, mgie, burzy, gromie i wicherze, ani w obszarze z silnymi zakłóceniami elektromagnetycznymi.
- Hover and return the drone immediately when encountering bad weather, such as gale, rain, snow, lub grad, lub innych przyczyn uniemożliwiających operację. W przypadku warunków niesprzyjających powrotowi, zwróć się do przycisku powrotu i natychmiast polec dronem w stronę bezpiecznego miejsca w pobliżu.
- Please ensure that the drone does not carry a load beyond the safe takeoff weight specified in this instrukcji. Przeciążenie, jako zagrożenie bezpieczeństwa, jest ZABRONIONE.
- To prevent impurities from clogging the tubes, please mix pesticide with clean and purified water i przefiltrować przed dodaniem do zbiornika.
- Be cautious when preparing and spraying pesticides. Using personal protective equipment is highly zalecane. Unikaj bezpośredniego kontaktu z pestycydem. Unikaj rozprysków, które mogą uszkodzić drona i spowodować obrażenia ciała. (Patrz strona 16 — „Środki ostrożności przy przygotowywaniu pestycydów")
- Before spraying, please see that propellers are free of damage and contaminants. Also, they should być bezpiecznie zainstalowane z w pełni rozłożonymi łopatkami. Silniki drona powinny być czyste i nienaruszone. Upewnij się, że system oprysku działa prawidłowo.
- Before spraying, please see that the space around the takeoff point and along the route is open and daleko od tłumów. Ponadto wybierz odpowiednią wysokość startu/powrotu zgodnie ze środowiskiem pracy.
- Be environmentally aware when preparing and spraying pesticides. It is prohibited to pollute rivers i źródeł wody pitnej.

- Make sure to keep the drone in view and stay alert for obstacles throughout the operation.

Autonomiczne omijanie przeszkód nie zadziała, gdy moduł omijania przeszkód nie rozpozna

niektórych trudnych do identyfikacji przeszkód, takich jak nachylone linie energetyczne, ze względu na ich specjalny kształt i pozycję. W takim przypadku proszę natychmiast sterować dronem ręcznie.

- Strong and stable GNSS signal coverage throughout the operation is a must to complete the task.

- No crowd, animal, or obstacle is allowed to stay near the spinning propeller which is hazardous.

NIGDY nie zbliżaj się do pracujących śmigieł i silnika ani nie dotykaj ich żadnym przedmiotem. NIGDY nie noś luźnych przedmiotów, ponieważ mogą stanowić zagrożenie zapłataniem.

- The electromagnetic compatibility test reveals that the product meets the Class B requirements of test method GB/T17626.3 outlined in the Technical Specification of Quality Evaluation for Crop Protection UAS (NY/T 3213-2018) in the radiated, radio-frequency, electromagnetic field immunity test results conducted within the radiated interference frequency range of 30 MHz-230 MHz (quasi-peak value: 50 dB, $\mu\text{V/m}$), 230 MHz-1 GHz (quasi-peak value: 57 dB, $\mu\text{V/m}$), 1 GHz-3 GHz (average/peak value: 56/76 dB, $\mu\text{V/m}$), and 3 GHz-6 GHz (average/peak value: 60/80 dB, $\mu\text{V/m}$). However, should the ambient radiated interference frequency exceed the above peak ranges, the reliability of the product may be affected.

- During takeoff, operation, or return, the operator should carefully observe the drone's surroundings.

W przypadku zauważenia ludzi, zwierząt lub przeszkód na trasie, natychmiast odleć dronem, aby uniknąć wypadków.

- NEVER install/remove any module or insert/extract any circuit while the power is on.

- Please charge the remote controller or the drone when the battery level drops below 20% to avoid

uszkodzenia urządzenia spowodowanego nadmiernym rozładowaniem z powodu długiego przechowywania przy niskim poziomie naładowania. Dron jest nieużywany, wyjmij baterię i przechowuj ją osobno w suchym, dobrze wentylowanym i czystym miejscu przed naładowaniem między 50% a 60%.

- Be sure to remove the battery and put it in a safe and level place before transporting the drone.

- When the drone sits idle, or for long-term storage or long-haul transportation, it is necessary to remove the battery and empty the liquid reservoir and store the drone in a cool, dry place.

- Keep the product away from heat to prevent damage to the electronic component and other parts or fire.

- Never take human bodies or animals, whether static or in motion, or other hazardous objects as obstacles in the experiment of obstacle avoidance.

- Do NOT use non-XAG components as they may seriously affect the safety and service life of the drone.

- Do NOT turn off the communication device connecting to the drone during the flight. Do NOT make any calls or use other functions during the flight. Do NOT use the drone after drinking alcohol or taking drugs.

- Since the drone requires access to both RTK and a 4G network for operation, it is important to understand the local network conditions before purchase.

- As insufficient mobile data will prevent the drone from accessing real-time locations, please make sure you have enough data for the operation.

- The drone comes with a built-in SIM card. Upon activation of the whole set of devices, XAG will provide each account with 2 GB of free basic data. Additional data, if needed, can be purchased through the XAG One app — Details of the device — Mobile data. If the SIM card remains inactive for two consecutive months, it will be automatically deactivated.

Znaki bezpieczeństwa



Ochrona osobista



Najpierw przeczytaj instrukcję i instaluj łopatę prawidłowo



Wysokie napięcie



Zagrożenie toksyczne



Ryzyko przytraśnięcia rąk



Gorąca powierzchnia



Uwaga na łopatę



Nie naciskaj



Zwolnij zaciski ramion



NIE składaj łopat tutaj



Umieść uchwyt łopat tutaj

Czytaj/Pobierz e-Dokument

Zeskanuj poniższy kod QR, aby przeczytać/pobrać niniejszą instrukcję.



⚠ Uwaga

⚠ The instructions in this document will be updated and improved on a continuous basis. You can zeskanować kod QR, aby przeczytać lub pobrać najnowszą wersję „Instrukcji obsługi drona rolniczego XAG P150”.

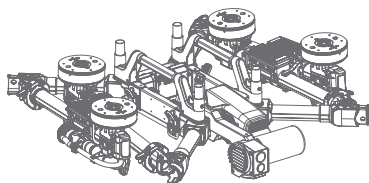
Wprowadzenie

Dron rolniczy XAG P150 2024, zwany dalej „dronem”, wyróżnia się nową generacją konstrukcji architektonicznej. Zapewnia ogromny skok w ładowności i inteligencji dzięki bardziej wytrzymałej i wydajnej konstrukcji ramowej, mocnemu układowi napędowemu, zupełnie nowemu kontrolerowi lotu X5 Pro i wysoko zintegrowanemu modułowi percepcji radarowej 4D. W połączeniu z precyzyjną operacją o ultra-wysokim przepływie systemu 4. generacji RevoSpray i RevoCast oraz natychmiastowym generowaniem map przez system 3. generacji RealTerra, jest wysoce wydajnym i niezawodnym nowym flagowcem inteligentnego rolnictwa, odpowiadającym na potrzeby różnych scenariuszy rolniczych.

Lista elementów

Poniższa lista zawiera trzy pudła — rama P150 , XAG P150 RevoSpray 4 oraz kontroler zdalny ^[1]. Proszę upewnić się, że po rozpakowaniu pudeł wszystkie poniższe elementy są obecne. W przypadku braku jakiegokolwiek elementu prosimy o natychmiastowy kontakt ze sprzedawcą.

Rama P150



Rama P150
x1



Śmigło CW
x2



Śmigło CCW
x2



Uchwyt łopaty
(M1 & M2)
x2

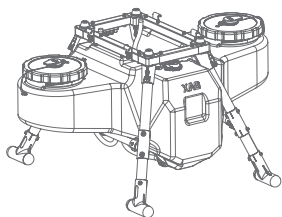


Uchwyt łopaty
(M3 & M4)
x2



Zestaw narzędzi
x1

XAG P150 RevoSpray 4



XAG P150 RevoSpray 4

x1

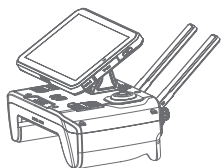
Kontroler zdalny - XAGDrażek sterowania rolniczego 4 (ACS4)



ACS4

x1

Kontroler zdalny - Inteligentny kontroler XAG 4 (SRC4)



SRC4

x1

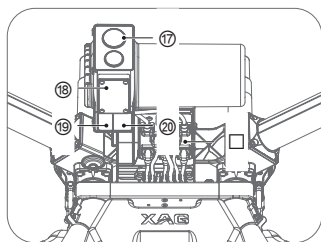
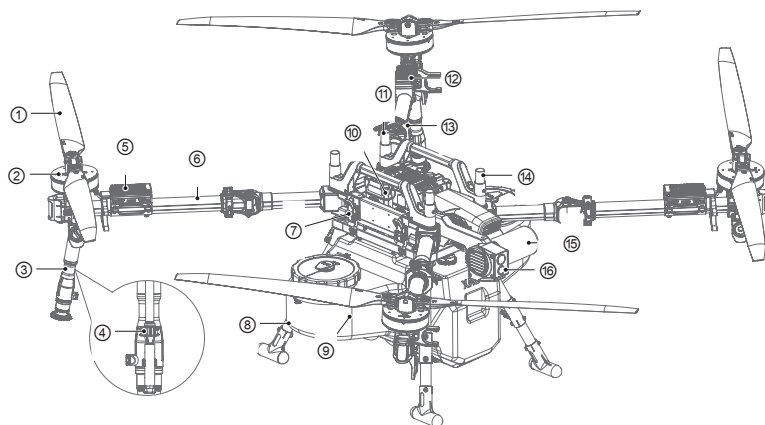


Kabel Type-C

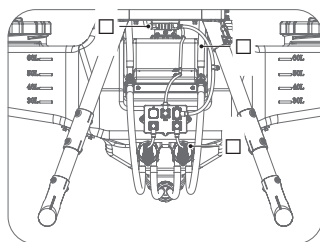
x1

[1] Kontroler zdalny jest dostępny w dwóch wariantach: ACS4 i SRC4. Proszę odnieść się do zakupionego modelu.

Główne elementy



Widok z przodu od dołu



Widok z tyłu

- ① Śmigło
- ② Silnik
- ③ Drażek natraskowy
- ④ Zawór antykroplowy
- ⑤ ESC
- ⑥ Składane ramię
- ⑦ Zatrask ramy
- ⑧ Podwozie

- ⑨ Zbiornik cieczy
- ⑩ Komora akumulatorów
- ⑪ Antena RTK ^[1]
- ⑫ Lampka ramienia
- ⑬ Mocowanie ramienia
- ⑭ Antena Wi-Fi ^[2]
- ⑮ Radar obrazowy 4D
- ⑯ Przednia kamera FPV

- ⑰ Przedni reflektor
- ⑱ Radar terenu
- ⑲ Dolna lampa doświetlająca
- ⑳ Dolna kamera FPV
- ☐ Rozdzielnia kabli
- ☐ Kabel systemu ładunku
- ☐ Przewód cieczy
- ☐ Elastyczna pompa wirnikowa

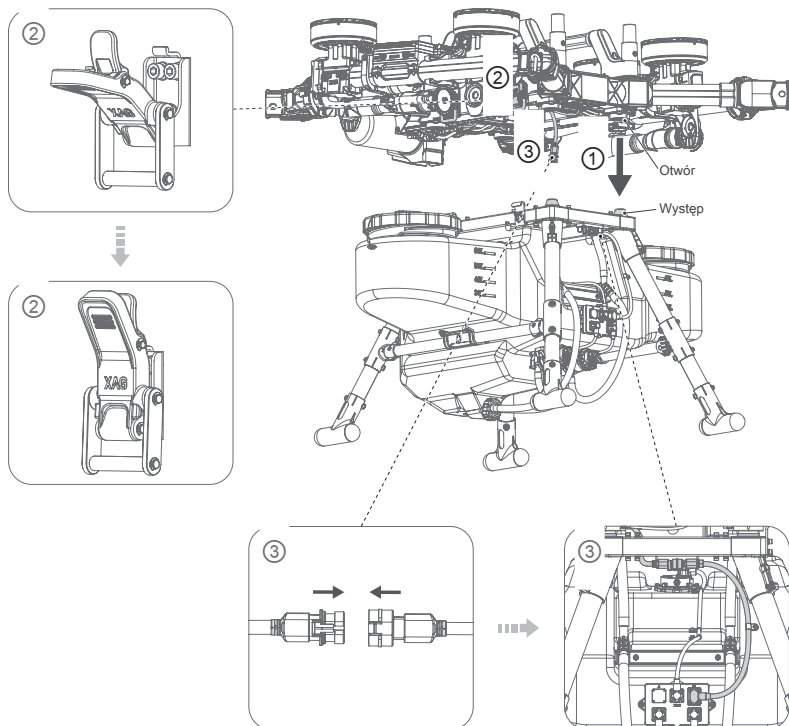
[1] Anteny RTK umieszczone są po przekątnej.

[2] Anteny Wi-Fi umieszczone są po przekątnej.

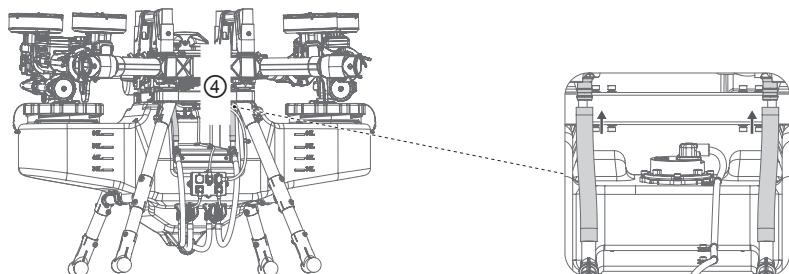
Przygotowanie drona

Instalacja RevoSpray

- ① Secure the airframe onto the RevoSpray by aligning the holes of the airframe with the bosses on the RevoSpray.
- ② Open the two hasps on each side of the airframe and fasten the airframe to the RevoSpray.
- ③ Connect the payload system cable of the airframe to that of the RevoSpray, then affix them to the cable holder.

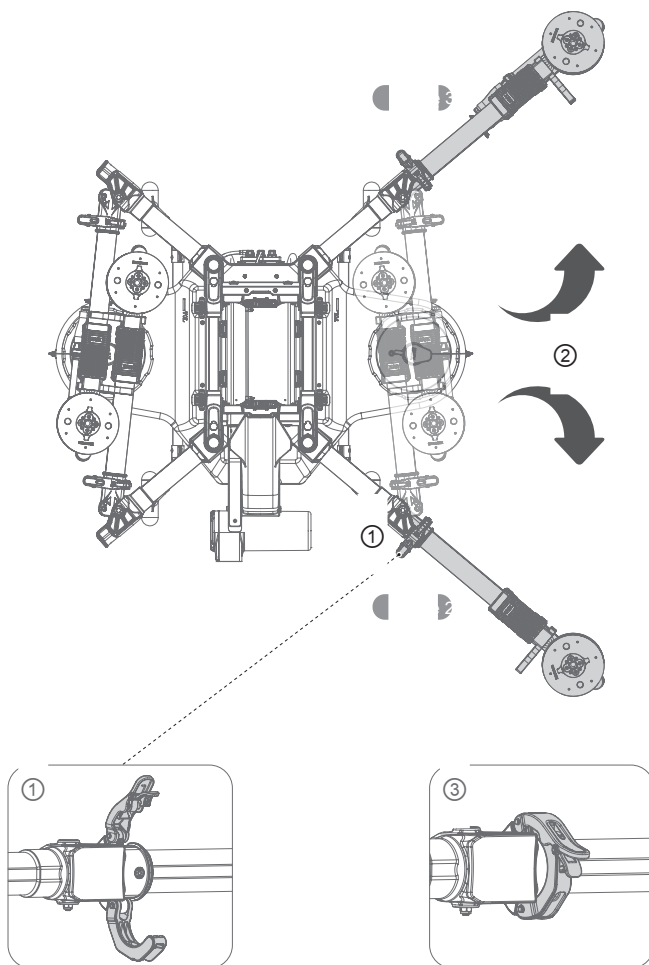


- ④ Podłącz dwa przewody cieczy do pompy RevoSpray.



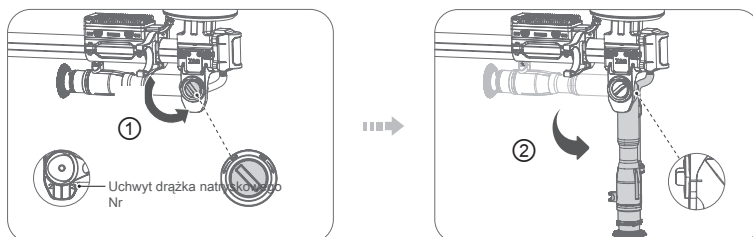
Rozkładanie ramion

- ① Release the fasteners on arms 2 and 3 (take the left arm as an example).
- ② Gently spread arm 3 (the outer one) to disengage the fastener securing arm 2. Then unfold arm 3 followed by arm 2.
- ③ Once fully unfolded, secure the fasteners on arms 2 and 3.



Rozkładanie drążków natryskowych

- ① Loosen the spray rod knob by turning it counterclockwise.
- ② Spread out the spray rod to its maximum angle limit, and then tighten the knob clockwise.

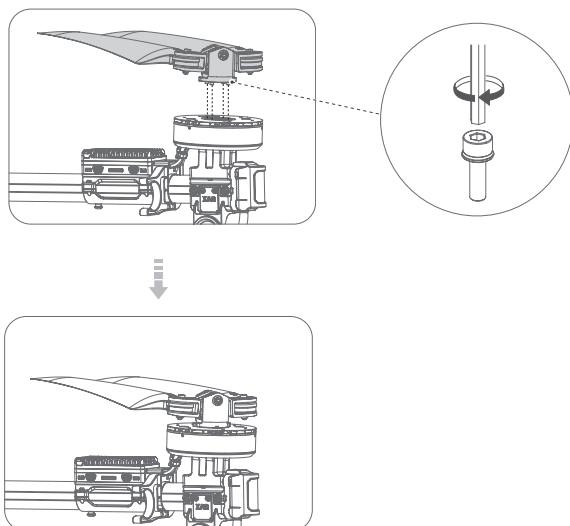


Uwaga

- ⚠ Before unfolding the spray rod, ensure that the numbering on the rod holder matches the respective arms: holder 1/4 is for arms 1 and 4, while holder 2/3 is for arms 2 and 3. When installing the rod, ensure that both the rod and its knob are correctly inserted into the corresponding rod holder (with the knob facing toward the nose of the drone).

Instalacja śmigieł

Place the CW propellers on the CW motors of arms 1 and 3, and the CCW propellers on the CCW motors of arms 2 and 4. Use the L-shaped wrench and weighted socket from the tool kit to tighten the 4 screws that secure the propeller to the propeller base (4 screws for each base) to complete the propeller installation.

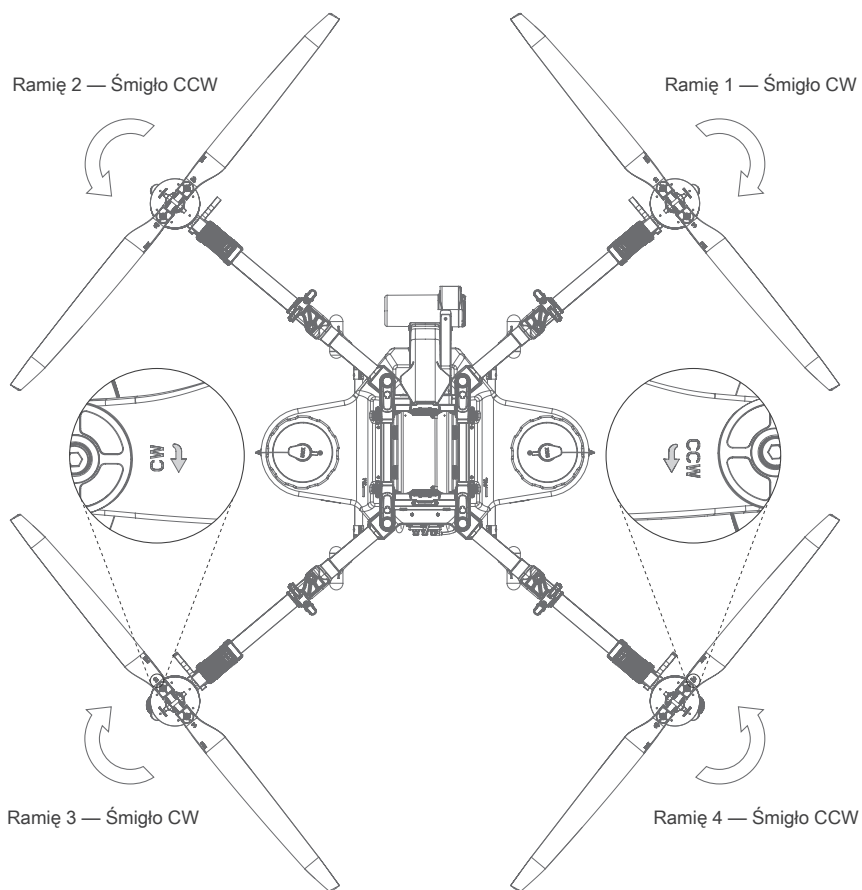


Uwaga

- ⚠ CW propeller and CCW propeller are NOT interchangeable, or it may cause accidents.

Rozkładanie śmigieł

Spread out 4 propellers and see whether their models, which could be found between the clamp and the blade, match those on the arms respectively. CW propellers, rotating clockwise, should be on Arms 1 and 3. CCW propellers, rotating counterclockwise, should be on Arms 2 and 4.



Przygotowanie akumulatorów

The 2024 P150 Agricultural Drone is compatible with three types of batteries: B13960S and B13970S Smart Supercharge Batteries (referred to as "the batteries"). This user manual will use the B13970S Smart Supercharge Battery as an example.

Włączanie / wyłączanie

While the battery is off, connect it to a charger or a device. Press and hold the power button for 2 seconds until all the battery level indicators flash simultaneously. Then release the button. The status indicator will light up, indicating successful power-on.

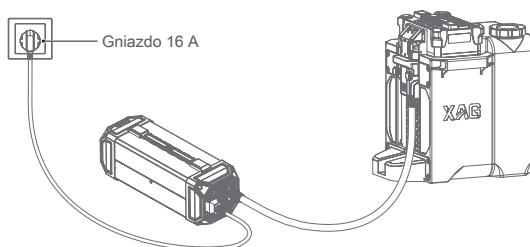
While the battery is on, press and hold the power button for 2 seconds until all the battery level indicators flash simultaneously. Then release the button. The status indicator will go off, indicating successful power-off.

Ładowanie

When using a Supercharge Station or a charger to charge the battery, the charging process will automatically stop once the battery is fully charged, and the battery will power off automatically.

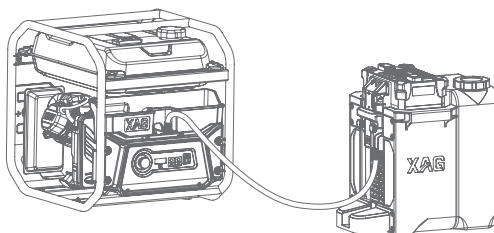
Ładowanie ładowarką

Ładowarka CM13600



Ładowanie stacją Supercharge

Stacja GC4000+ Auto SuperCharge

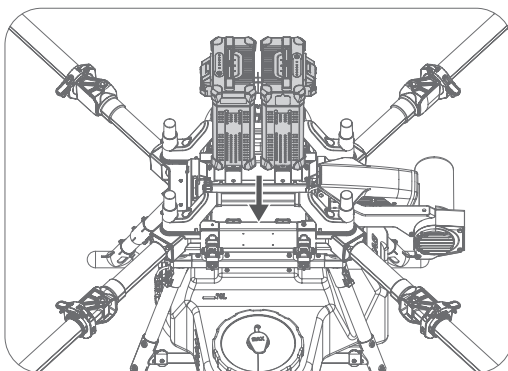


Uwaga

- ⚠ For water or mist cooling, submerge the battery in clean, non-corrosive water for a maximum of 60 minutes. Ensure that the water level remains between the Min and Max marks on the battery casing for optimal heat dissipation. Do not fully submerge the battery in water.
- ⚠ Before charging, please see that the power contact is clean and dry and the charging plug and battery interface are free of any metal objects or liquid residue.
- ⚠ While charging, monitor the water level in the battery cooling tower. If it falls below the Min mark, refill with fresh water without exceeding the Max mark.
- ⚠ While charging, be sure to prevent water from the water/battery cooling tower from splashing onto the charger or supercharge station to avoid power failure or damage to the station and battery.
- ⚠ If you need to remove the battery during charging, please turn off the battery or the supercharge station first. Direct removal may cause the supercharge station to trigger over-voltage protection, resulting in a shutdown.
- ⚠ Please remove the battery before draining the water/battery cooling tower.

Instalacja akumulatorów

Insert the battery into the battery compartment until hearing a clicking sound.



Uwaga

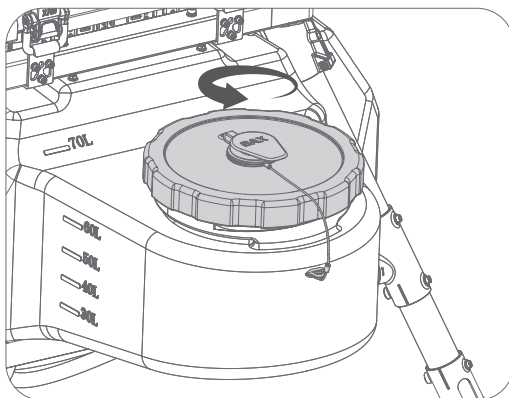
- ⚠ Before installing the battery, please keep the power connector of the drone and the battery connector clean, dry, and free of metal foreign objects and liquid.
- ⚠ When equipped with batteries B13960S, the P150 is unable to perform full-load flight operations. To ensure operational safety, when fitted with either RevoSpray or RevoCast systems, the maximum payload for the P150 shall not exceed 60 kg. Users shall bear responsibility for any battery malfunctions, flight incidents, or safety issues resulting from overloading.
- ⚠ Before powering up the battery, please ensure that it has been fully inserted into the battery compartment, or it may cause a flight accident during operation.

Napełnianie zbiornika

Zbiornik można napełniać bezpośrednio lub za pomocą dyszy pompy.

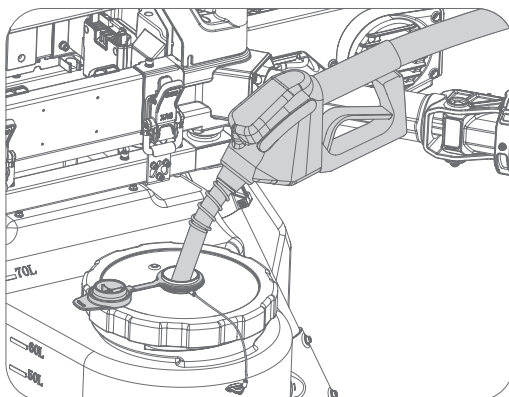
Napełnianie bezpośrednie

Odkręć korek w kierunku przeciwnym do ruchu wskazówek zegara, napełnij zbiornik, a następnie dokręć korek zgodnie z ruchem wskazówek zegara.



Napełnianie dyszą pompy

Odkręć korek, napełnij zbiornik dyszą pompy, a następnie dokręć korek.



Środki ochronne przy przygotowywaniu pestycydów

Safety is paramount when preparing pesticides, so please strictly follow the guidelines below.

- ① Wear long-sleeved clothing, trousers, a mask, goggles, and rubber gloves, and stand in a well-ventilated, shady area upwind while preparing pesticides.
- ② Check your long-sleeved clothing, trousers, mask, goggles, and rubber gloves and replace them immediately if worn.
- ③ During pesticide application, refrain from smoking, eating, or drinking. If the tubes or nozzles become clogged, do not attempt to clear them by blowing with your mouth; instead, use soft objects or clean water for unclogging.
- ④ If pesticides accidentally splash into your eyes, rinse with plenty of clean water immediately. If you experience symptoms like headaches, nausea, or vomiting, stop all activities, remove your work clothes, and bring the pesticide packaging to the nearest hospital for medical attention.
- ⑤ After completing the operation, be sure to wash your hands with soap and thoroughly cleanse your entire body promptly.
- ⑥ Soak and wash your protective equipment with alkaline water.
- ⑦ Used pesticide containers and packaging should be collected and disposed of properly. Under no circumstances should they be casually discarded in ditches, wells, or areas frequented by humans and animals to prevent pesticide contamination, poisoning, or environmental pollution.

Środki ostrożności przy przygotowywaniu pestycydów

- When handling pesticides, it is important to follow the safety instructions provided by the pesticide manufacturer.
- During operation, attention to drone protection is just as vital as ensuring personal safety. Prevent the entry of pesticides into the circuit board during tank installation/removal to avoid short circuits that may damage the drone. Minimize device failures caused by improper handling.
- Pesticides should be prepared with clean water; avoid using dirty or muddy water as they can reduce the dispersity, wettability, and permeability of pesticides in water, leading to precipitation and reduced efficacy. Impurities in water may degrade some active ingredients in pesticides, diminishing their effectiveness.
- After adding clean water, thoroughly stir the pesticide mixture to ensure full dissolution, minimize precipitation, and enhance pesticide effectiveness. Avoid using warm water as it may cause the solution to crystallize and precipitate.

Objawy zatrucia pestycydami i reagowanie w nagłych wypadkach

Symptoms: dizziness, headache, nausea, vomiting, excessive sweating, chest tightness, blurred vision, weakness, shortness of breath, increased heart rate, and in severe cases, incontinence and constricted pupils.

Emergency Response: In case of ingestion, do NOT induce vomiting. Immediately take the individual to the hospital with the pesticide label.

Przygotowanie kontrolera

There are two types of remote controllers: ACS4 and SRC4. Unless otherwise specified, the features or precautions described in this document for the "remote controller" apply to both models.

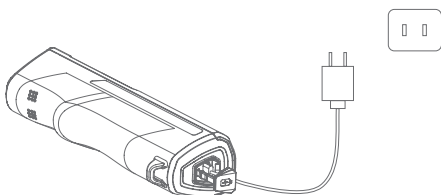
Warning

- ⚠ As the remote controller is specially designed for XAG's product, most likely it is not compatible with non-XAG products. User who uses it on other products shall be held accountable for the damage and legal responsibilities arising therefrom.
- ⚠ Since the remote controller is not waterproof, please avoid getting it wet or soaked during charging and use. Otherwise, user shall be responsible for any product failure or damage arising therefrom.
- ⚠ When flying the drone with the remote controller, please ensure the surrounding area is clear and maintain a safe distance from the drone. Keep the drone away from crowds, animals, or any other obstacles.

ACS4

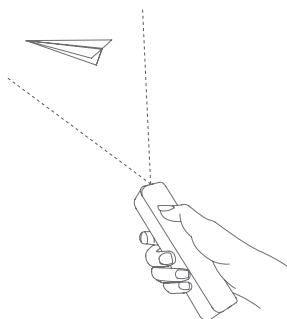
Ładowanie

Insert the Type-C end of the cable into the charging port of the ACS4 and the USB end into the charging adapter before connecting it to a power source. When you hear the voice prompt "charging complete" and the power indicator light turns solid green, the ACS4 is fully charged.



Metody obsługi

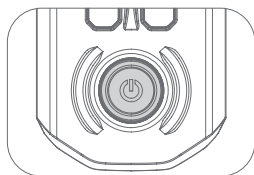
When operating a drone with the ACS4, always make the Wi-Fi antenna on the top of the ACS4 face the drone and avoid obstruction to prevent signal blockage.



Uwaga

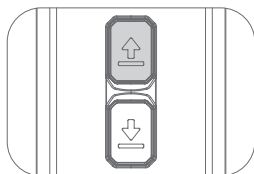
- ⚠ When operating the drone with the ACS4, the ACS4's warning indicator will blink red, along with a voice prompting "Drone's battery low" when the drone's battery level is less than 20%. During operation, make sure the drone is always within your line of sight, keep a close eye on it, and return or force it to land in a timely manner according to the warning prompts.

Włączanie/wyłączanie



- When the ACS4 is off, turn it on by pressing and holding the  for 2 seconds until you hear the "XAG" voice prompt.
- When the ACS4 is on, turn it off by pressing and holding the  for 2 seconds until you hear the "power off" voice prompt.

Start

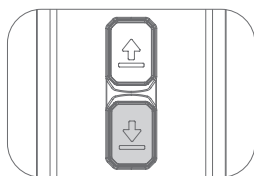


- Press and release  once, followed by a long press until you hear the voice prompt "take off soon", the propeller will start to idle. Keep pressing until the drone takes off. Alternatively, press and hold  and  at the same time, and the drone will automatically take off and hover at 2.5 meters.

After take-off, the propeller will idle. Please stay away from the drone.

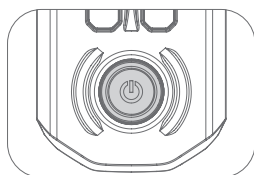
If the drone does not take off within 5 seconds after the propellers start to idle, it will lock automatically and the propellers will stop.

Lądowanie



- Press and hold  until the drone lands and the propellers stop. Alternatively, press and hold  and  at the same time to land the drone during flight.

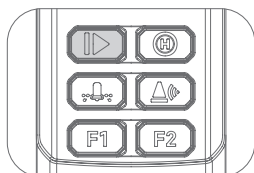
Blokada joysticka



- Short press  to lock the joystick, and the joystick lock indicator will turn solid red; Short press  to unlock the joystick, and the joystick lock indicator will turn solid green.

When locked, the ACS4 joystick is disabled for directional control, ascending/descending, and left/right rotation.

Operacja jednym dotknięciem



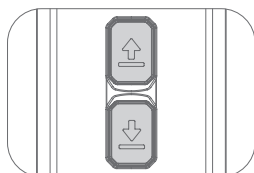
- Press and release  once, then press and hold  to activate One-Tap Operation.

Operacja jednym dotknięciem allows the drone to take off and resume its previous task from the breakpoint.

When the drone is on the ground and One-Tap Operacja is activated, the propellers will idle.

If the drone does not take off within 5 seconds after the button is released, it will automatically lock and the propellers will stop.

Wznoszenie/Opadanie

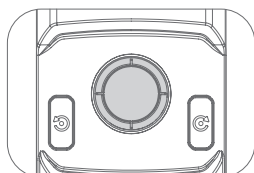


- Short press  /  to make the drone ascend/descend by a set altitude. Press and hold  for continuous ascent/descent.

Ensure there are no individuals within a 10-meter radius when maneuvering the drone upward or downward.

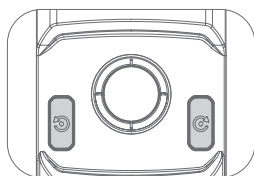
When flying the drone manually, please make sure the nose of the drone is facing directly forward as you are.

Pochylenie/Przechylenie



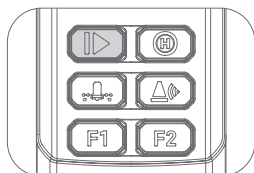
- After unlocking the joystick, you can control the pitch and roll of the drone with the joysticks.

Sterowanie kierunkiem



- Short press / to rotate the drone left/right at a specific angle. Press and hold / for continuous left/right rotation.

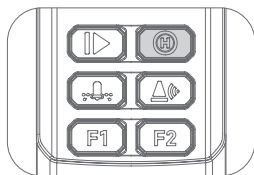
Zawieszenie/Wznowienie



- Short press to make the drone hover. Press and hold to resume.

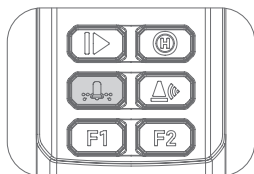
Resume/Pause operations are actions performed while the drone is in the air.

Powrót do bazy (RTH)



- Press and hold to activate RTH.
- When performing RTH with the remote controller, make sure no one is under the return route.

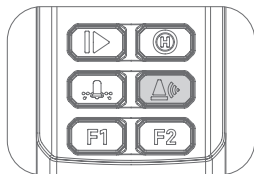
Rozpocznij/Zatrzymaj oprysk



- Press and hold to start spraying. Short press to stop spraying.

The drone cannot spray while hovering.

Włącz/Wyłącz omijanie przeszkód



- Press and hold to enable obstacle avoidance, and the indicator light will turn solid green. Short press to disable obstacle avoidance, and the indicator light will turn off.

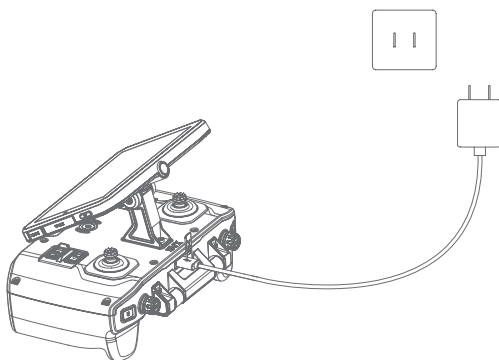
SRC4

Ładowanie

Insert one end of the Type-C cable into the charging port of SRC4 and the other end into the charging adapter, then connect the adapter to a power source.

While charging with the fast charger, the power indicator will blink rapidly and the buzzer will beep.

The power indicator will turn solid green when the SRC4 is fully charged.

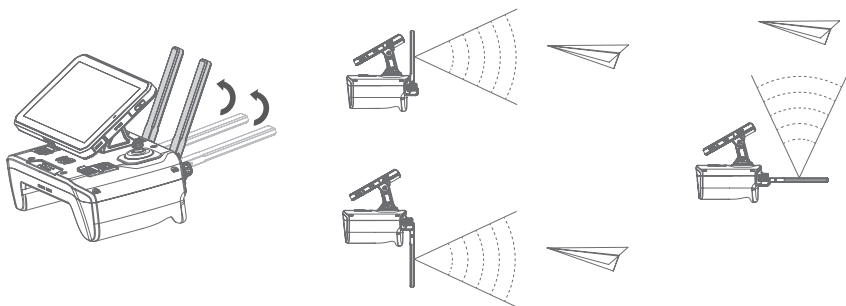


Uwaga

⚠ When SRC4 is on, slow charging will only allow it to work at a certain battery level. For a full charge, please turn it off.

Rozkładanie anteny

Spread out the antennas and adjust them to the appropriate positions. Rotate the antennas clockwise to adjust the orientation.



Uwaga

⚠ The signal strength varies depending on the position of the antenna. When operating the drone remotely, users can adjust the antenna orientation to optimize signal reception.

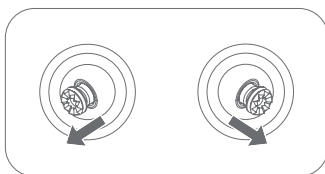
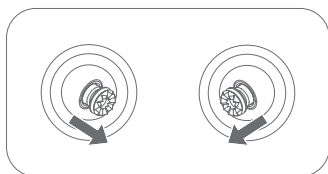
Włączanie/wyłączanie

Power on: Press and hold the power button for 2 seconds, the power indicator light will turn solid while the joystick lock indicator will blink, indicating the system is booting up. Once the joystick lock indicator turns solid and you hear the voice prompt "power on", it means the SRC4 has been successfully powered on.

Power off: Press and hold the power button for 2 seconds until all indicators turn off and you hear the voice prompt "power off".

Uruchomienie silników

Before take-off, you can start the motors by performing the following two joystick maneuvers. If the throttle is not applied within 3 seconds after releasing the joysticks, the motors will stop automatically.

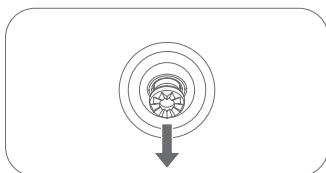


Ostrzeżenie

 Do NOT push the joysticks to start motors while the drone is flying because it will stop the motors and cause the drone to crash.

Zatrzymanie silników

After landing, pull and hold the throttle to the lowest position and the motors will stop after 1 second.



Zawieszenie i RTH

When the drone is flying, short press  on the remote controller to make the drone hover. Press and hold  to resume the operation.

When the drone is flying, press and hold  to perform RTH.

Ostrzeżenie

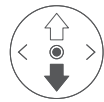
 If the joystick malfunctions or the drone becomes uncontrollable, press the Hover button to make the drone hover, and then press the RTH button to bring it back.

Tryb joysticka

The Joystick Mode is divided into Japanese Hand, American Hand and Chinese Hand. The default mode is American Hand (Mode 2).

Tryb japoński (Tryb 1)

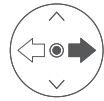
Lewy joystick



Do przodu



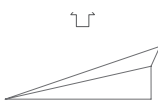
Do tyłu



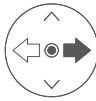
Prawy joystick



Wznoszenie

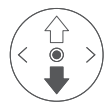


Opadanie

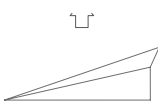


Tryb amerykański (Tryb 2)

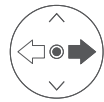
Lewy joystick



Wznoszenie



Opadanie



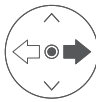
Prawy joystick



Do przodu

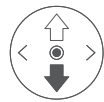


Do tyłu



Tryb chiński (Tryb 3)

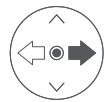
Lewy joystick



Do przodu



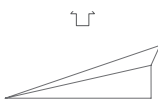
Do tyłu



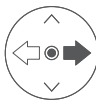
Prawy joystick



Wznoszenie



Opadanie



Sposób użycia

Pobierz aplikację „XAG One”



System Android users can scan the QR Code above to download/install XAG One.

System iOS users can search for "XAG One" in the App Store to download and install.

Dodaj urządzenie

Dodaj drona

For the first time use, you need to add the drone to XAG One by following the steps below.

1. Open XAG One, enter the phone number to register for an account and log in.
2. On the home screen (main screen), tap  in the upper right corner and select "Add a Device".
Alternatively, you can go to "Me" - "Device" - "  " to add the device.
3. Scan the QR code on the nameplate of the fuselage, or enter the serial number on the fuselage.
4. Set the device name and tap "Next".
5. Tap "View Device Details".
6. On the "Device Details" screen, find and select "Set as operation device" to designate this drone as the operation device. You have now successfully added the drone.

Dodaj kontroler zdalny

When using the ACS4 for the first time, you need to add it to XAG One by following the steps below.

1. Open XAG One, tap  in the upper right corner of the home screen (main screen), and select "Add a Device". Alternatively, you can go to "Me" - "Device" - "  " to add the device.
2. Scan the QR code on the ACS4 or enter its serial number to add the device.
3. Name your device and tap "OK" to complete the addition.

Powiąz kontroler zdalny

Before using the remote controller to maneuver the drone, you need to bind it by following these steps.

1. Open XAG One, go to "Me" - "Device", and select the drone you want to bind with the remote controller from the device list.
2. Go to "Device Details" - "General" to tap "Bind Remote Controller".
3. Select the remote controller you want to bind and tap "Bind". Now you can operate the drone with the remote controller (refer to pages 17 to 23 on how to use it).

Interfejs aplikacji

Ekran główny



ListaView Field List, HD Map List, and Device List

Przełącz zespołyDotknij, aby wybrać bieżący zespół

Lokalizacja drona : Aktualna lokalizacja drona

Ekran operacji: Dotknij, aby przejść do ekranu operacji

Historia operacji :Dotknij, aby przejść do historii operacji

Lista funkcji: Dotknij, aby importować dane, dodać urządzenie

PowiadomieniaDotknij, aby wyświetlić powiadomienia

WarstwaDotknij, aby przełączyć tryby mapy

Śledź drona: Uzyskaj dostęp do aktualnej lokalizacji drona

Śledź użytkownika: Uzyskaj dostęp do aktualnej lokalizacji użytkownika

Pomiar: Dotknij, aby zmierzyć odległość na mapie

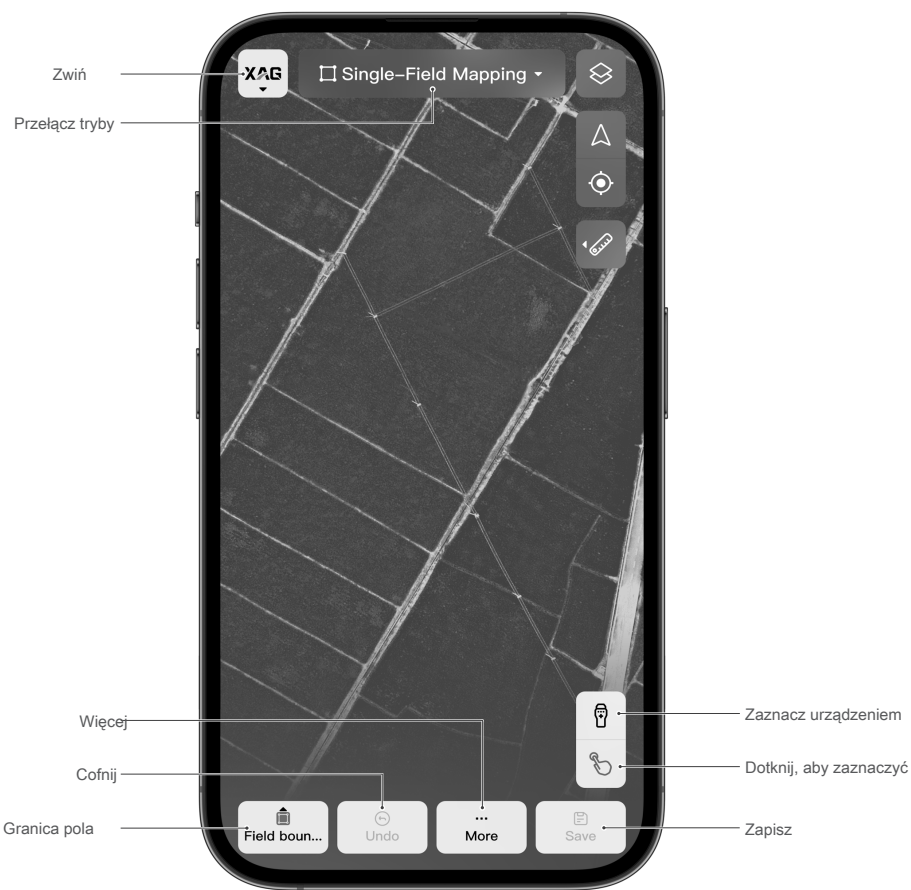
Moja lokalizacja: Aktualna lokalizacja użytkownika

Ekran mapowaniaDotknij, aby przejść do ekranu mapowania

Ekran Ja: Dotknij, aby przejść do ekranu Ja

Ekran mapowania

Tap Home Screen (Main Screen) - "Mapping" to go to Start Mapping Screen.



Zwiń : Dotknij, aby zwinąć bieżący ekran

Przełącz tryby : Dotknij, aby wybrać tryby mapowania (Mapowanie jedнопольowe/Mapowanie wielопольowe)

Więcej: Inne ustawienia funkcji, takie jak włączanie/ wyłączanie zaznaczania krzyżykiem kursora lub wirtualnym zaznaczaniem klawiaturowym, usuwanie danych mapowania

Cofnij: Cofnij ostatni punkt graniczny

Granica pola: Dotknij, aby wybrać typ granicy: granica pola, przeszkoda lub strefa bez oprysku

Zaznacz urządzeniem: Dotknij, aby przełączyć na Leć i zaznaczyć, Zaznacz kontrolerem lub Zaznacz roverem

Dotknij, aby zaznaczyć: Dotknij, aby zaznaczyć Zapisz: Save the created field

Ekran rozpoczęcia operacji

Tap Home Screen (Main Screen) - "Mapping" to go to the Start Operation screen.



Szacunkowe parametry operacji : Wielkość pola do opryskania i ilość pestycydu wymagana; prędkość operacji, wysokość lotu i prędkość lotu drona
Ustawienia operacji :Dotknij, aby ustawić parametry oprysku i parametry trasy
Anuluj :Anuluj bieżącą operację

Info o kontrolerze: Wyświetl informacje o kontrolerze
Kamera FPV: tj. Widok pierwszoosobowy. Możesz wyświetlić aktualną perspektywę lotu drona
Dotknij, aby rozpocząć operację

Szczegóły urządzenia

Tap "Me" - "Device" - "Select Drone" to view the device details of the corresponding drone.

- Tap "⌘" to go to "General", where you can perform various operations including binding remote controller, sharing devices, managing cellular data, updating firmware, receiving fault warnings, viewing device logs, subscribing to safety protection services, viewing device info, and setting current operation device.
- Tap "📶" to go to "Communication System", where you can view the current network status (signal strength, signal-to-noise ratio, communication quality), and perform operator settings and network health diagnostics.
- Tap "📍" to go to "Positioning System", where you can view information like the drone's RTK positioning status, RTK reference, RTK latency, number of connected satellites, positioning accuracy, and heading accuracy, as well as switch and set positioning mode.
- Tap "🔋" to go to "Battery System", where you can view battery information such as remaining battery level, real-time voltage/current, battery temperature, cell voltage, and cycle counts, as well as set the remaining battery level threshold for automatic RTH.
- Tap "🌫️" to go to "Spraying System", where you can view the information such as the remaining amount of chemical in the liquid tank and the spraying flow rate, as well as perform operations such as discharging the remaining liquid, manual spraying test, general calibration, and test settings (flow rate and rotational speed of the nozzle).
- Tap "🌀" to go to "Propulsion System". In "Propulsion Motor", you can view the working status of the four motors, and perform the "Idle Test" and "In-situ Takeoff Test".
- Tap "🌳" to go to "Sensor System", where you can enable/disable terrain following or obstacle avoidance, as well as configure the FPV camera settings.

Aktualizacja oprogramowania

Before using the device, you must check if the firmware version is up to date. If not, make sure to install the latest version.

1. Open XAG One and tap "Me"- "Device". Select the drone or remote controller for the operation and go to Device Details. Tap "⌘" to go to "General". Tap "Firmware Update" to check for updates.
2. When an update is pushed, tap "Download and Install". After the update is complete, tap "Finish" and return to Device List to see if all devices for the operation have the latest firmware. If not, repeat the above steps until all updates are complete.

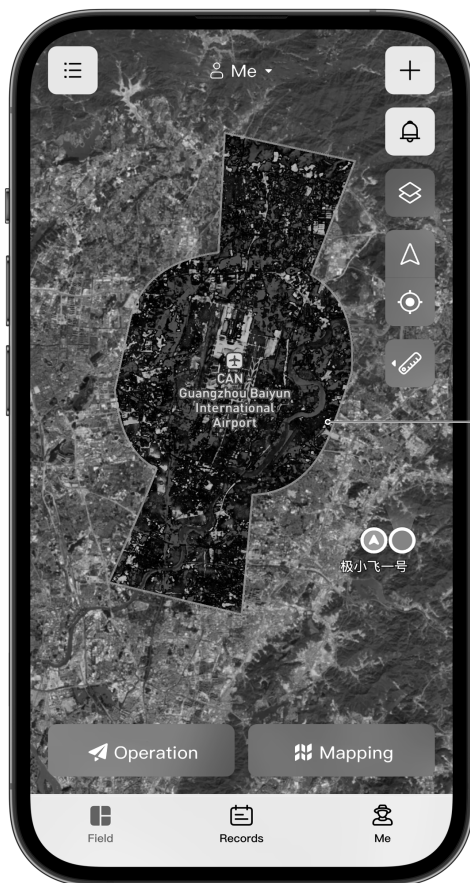
Ograniczenia lotów

Geofence

Geofence displays and updates information in real time within the fenced area, preventing drones from taking off from or flying into the restricted area. This ensures compliance with relevant laws and regulations. For special needs, users can request permission from competent authorities and seek help from local dealers.

- No-fly zones will be displayed on the map of XAG One. When operating or mapping in these areas, a warning message will be shown, and an error message will appear if a takeoff is attempted. The no-fly zones and license data will be updated every time you open the XAG One.

- Tap "No-fly Zone" in the Settings of the XAG One to view and update the no-fly zone version, check the number of no-fly zones, and add approved no-fly zones.
- For safety reasons, the drone's Geofence system imposes flight restrictions, preventing takeoff from or entry into the no-fly zone. It also limits the drone's altitude and travel distance to ensure safe operation. When GNSS is active, flight is constrained by no-fly zones, altitude, and travel distance. Otherwise, altitude is the only constraint.



Strefa zakazu lotów
Oznaczona przez
Geofence

Uwaga

- ⚠ Flying in no-fly zones within 20 kilometers of government buildings, military bases, prisons, nuclear power plants, and airports is prohibited and will result in legal penalties.
- ⚠ If your operation area falls within a controlled area, you should request permission from local authorities and seek help from local dealers.

Utwórz pole

Before starting an autonomous operation, you need to create a field. This can be done in two ways: Tap to Mark or Mark by Device. Both methods will be introduced below.

Dotknij, aby zaznaczyć

After the HD map is generated or imported, you can generate fields by tapping on the HD map to mark them.

1. Open XAG One and tap "Mapping" on the home screen (main screen) to enter the Mapping screen.
When you tap to mark, the icon  in the lower right corner will be highlighted.
2. Tap the map to mark the boundary points of the field that needs operation (tap  at the bottom to undo a marked point). After marking all the boundary points, tap "Auto Close" (or directly tap the starting point), and the system will generate the field automatically.
3. Tap the "Field Boundary" icon  to switch to "Obstacle" or "Non-spraying Zone". Then tap to mark the boundary points of the obstacle or non-spraying zone.
4. Once you have marked the operation area, tap "Finish" in the upper right corner.
5. Complete the field information and tap "Done" to save the field.

Więcej akcji

- Tap "More" at the bottom of the Tap to Mark screen to enable "Cursor Marking". Once enabled, a white cross cursor will appear on the Mapping screen. Drag the cursor to the boundary point of the field that needs operation, then tap  at the bottom to mark the point.

Uwaga

- △ HD maps can be obtained either through RealTerra surveying or by importing HD maps from aerial survey drones. For RealTerra surveying, you need to install the RealTerra system. Please refer to the "XAG P150 RealTerra 3 User Manual" for installation instructions.

Zaznacz urządzeniem

Zaznacz urządzeniem comprises two methodsZaznacz roveremand Leć i zaznacz. Obie metody zostaną przedstawione poniżej.

Zaznacz roverem

Only the XRTK6 Pro Ground Module can be used to mark points and generate fields. Here is a step-by-step guide for marking.

1. Open XAG One and tap "Mapping" on the home screen (main screen) to enter the Mapping screen.
Tap  in the lower right corner and select the bound XRTK6 Pro mapper.
2. Take your XRTK6 Pro to the intended field boundary and short press  to mark the boundary points.
After marking all boundary points, tap "Auto Close" on the app (or press and hold ) , and the system will automatically generate the field.
3. Tap the "Field Boundary" icon  to switch to "Obstacle" or "Non-spraying Zone". Circle around the obstacle or non-spraying zone with XRTK6 Pro, and short press  to mark their boundary points (short press  to unmark the point).
4. Once you have finished mapping the operation area, tap "OK" in the upper right corner.
5. Complete the field information and tap "Done" to save the field.

Leć i zaznaczyć

For the P150 Agricultural Drone, Fly to Mark is available for field generation only when the drone is controlled by the SRC4. The steps are as follows.

1. Open the "XAG One" app in the SRC4. Tap "Mapping" on the home screen (main screen); Tap on the left-hand side of the screen, tap , and select the drone for mapping.
2. Fly the drone over the field that needs to be marked. Tap the FPV camera view on the screen to switch to downward FPV, or short press the FPV control button on the remote controller. Short press button "L" to mark the boundary points of the field (press button "R" to undo). Fly the drone to other boundary points and mark. After marking all the points, tap "Auto Close" on the screen, or long press button "L" to connect all the points, and a field will be generated.
3. Tap the "Field Boundary" icon  in the app to switch between "Obstacle" and "Non-spraying Zone". Fly the drone around the obstacle/non-spraying zone, and short press button "L" (press button "R" to undo) to mark the boundary points of the obstacle or non-spraying zone.
4. After mapping the operation area, tap "Save" in the bottom right corner. Complete field information and tap "OK" in the upper right corner to save.
5. Pilot the drone to to a safe area and land it, or long press RTH to make it return.

Zarządzanie polami

After creating fields, users can edit fields and share fields in batches, or create standard/customized routes via Manage Fields.

Edycja pola

Users can edit saved fields created using HD maps through Edit Fields.

1. Open the "XAG One" app. On the home screen (main screen), tap  in the upper left corner, select the field to be edited, and tap on "Manage Fields".
2. Tap "Edit Fields" and drag the boundary points to adjust them as needed. Create new boundary points via touch marking, or tap  to create new points via device marking. Select a boundary point and tap  to undo/delete it.
3. Tap on , select "Obstacle" or "Non-spraying Zone", and drag the boundary points of the obstacle/non-spraying zone to adjust its range as needed. Create new boundary points via touch marking, or tap  to create new points via device marking. Tap on the center of the obstacle/non-spraying zone and tap "Delete" to delete the whole obstacle/non-spraying zone.
4. After editing, save the field to complete the edits.

Udostępnianie grupowe

After creating fields, users may share multiple fields with others via Batch Sharing.

1. Open the "XAG One" app, on the home screen (main screen), and tap on  in the upper left corner to go to the Field List screen.
2. Tap "More" and select "Batch Field Sharing". Select multiple fields to be shared or tap to select multiple fields on the map, and tap on "OK".
3. Enter the recipient account to share the fields with a friend, or share the fields with a team managed by the user.
4. Tap "OK" to complete batch field sharing.

Nowe trasy standardowe/niestandardowe

After field mapping, users can create standard or customized routes via Manage Fields for applications in various scenarios.

1. Open the "XAG One" app, tap  in the upper left corner of the "Fields" screen, select the field to be edited, and tap on "Manage Fields".
2. Tap "Routes" in the bottom menu bar, and then tap "New" in the upper right - select a route type.
3. Select "Standard Route", and the system will automatically plan a standard route. Users can manually adjust route direction, route spacing, boundary safety clearance, and obstacle safety clearance. Select "Customized Route", and users can plan a route as needed. Tap the screen or  to mark points. Two consecutive points will connect and form a line, namely a segment. Multiple points connect in sequence and the drone will follow this route for operation.
4. Tap "Done" in the bottom right corner, enter the route name, and tap "OK" to save the route.



Uwaga

⚠ Routes with different types and parameters can be created in the same field, and users can select a proper route for flight operations.

Korekcja przesunięcia

When the device/drone is not in RTK mode during point marking/flight operations, users can correct the locations of the field and drone using the Offset Correction feature to improve the positioning accuracy of the drone in operation.

Korekcja przesunięcia w trybie autonomicznym

1. Open the "XAG One" app and tap "Operation" on the home screen (main screen).
2. Select the field to be operated on the map based on the prompts on the screen. Once the field is selected, lift the drone to the boundary of the field.
3. Tap "Offset Correction" on the left side of the screen to go to its settings. Tap the boundary point closest to the drone's position, adjust the boundary point on the Offset Correction settings screen until it is in the drone's position, or just drag the boundary point to the drone's position. and then tap "Offset to Drone". When the app shows "Offset Correction Done", tap on "Done" to complete it.

Rozpoczęcie operacji

After creating fields, start the drone for autonomous flight operations. (Take XAG P150 Agricultural Drone with dual nozzles, for example)

1. Open the "XAG One" app, and tap "Operation" on the home screen (main screen).
2. Based on the prompts, select the field to be operated on the map. Once the field is selected, the menu bar below will display estimation operating parameters for the field and other drone-related o kontrolerze. Tap on "Operation Settings" to customize the basic or advanced settings for spraying and routes as needed.
3. Tap on "Start Operation" and confirm that all propeller blades are properly installed and unfolded with all clamps fastened. Make sure that no one is within 10 meters of the drone, and then slide right to confirm takeoff. The drone will take off automatically for spraying after it completes self-checking.

Ustawienia podstawowe

Before an operation, tap on "Operation Settings" in the menu bar at the bottom of the operation screen to access settings on the "Basic" screen.

- When there is an existing operation template for the field, tap on the top left corner to select and apply the parameters of the existing template configuration. If it is the field's first operation without an operation template, after setting operation parameters, tap on the top right corner to "Save as Template". This will save the current operation configuration as a template for future use.
- Tap "Dosage & Droplet" under "Spraying Settings" and move the slider to set the drone's spray volume and droplet size. Tap on "Spray During Lane Change" to select the status of nozzles during lane change: turn on both nozzles, turn on outer nozzles only, and OFF.
- Tap "Altitude & Speed" under "Routes" to adjust the drone's altitude and speed on the routes. Tap on "Route Direction & Spacing" to adjust the direction, angle, and spacing of the routes. Tap on "Safety Clearance" to adjust the uniform boundary safety clearance, special boundary safety clearance, and obstacle safety clearance.
- Tap on "Altitude & Speed" under "Access Route" to adjust the drone's height and speed on the route. Tap on the "Safety Zone Mode" button to turn on/off this mode.
- Tap on "Terrain Following" to put the drone on radar terrain following mode.
- Tap on the "Obstacle Avoidance" button to enable/disable obstacle avoidance.

Ustawienia zaawansowane

On the "Operation Settings" screen, tap to switch to the "Advanced" screen to access related settings.

- Tap on "Operation Range" and move the slider to adjust standard routes on the "Standard" screen. On the "Edge" screen, enable/disable edge application and access related settings.
- Based on actual needs, users can turn on "Waypoint Resumption", "3D Route Operation", "Fly Only", and "RTH & Empty Container" to adjust and optimize autonomous operation settings.

Więcej

- During flight, tap "Hover" and the drone will hover at its current position. Tap "More" for landing, returning, or Tap & Go.
- Upon entering Tap & Go mode, the drone will hover at its current position. Drag the target range circle (green circle) on the map to move its center  to the desired position. Tap "Go to Tap & Go" and the drone will fly to the target position as planned. After the Tap & Go flight, tap "Exit" to return to the flight screen. Tap "Go to Operation" to exit Tap & Go and continue operation tasks.

Uwaga

-  Before operation, please make sure the RevoSpray/RevoCast system is installed.
-  Before using others' operation templates, please make sure the parameters are correct.
-  Before enabling 3D route operation, use RealTerra's "Mountain Mode" to generate 3D HD maps.
-  During flight, operators must closely monitor the flight environment for any unsafe factors, ensuring that the drone is away from obstacles and crowds.
-  During Tap & Go flight, the drone's obstacle avoidance will be disabled. Please be cautious. Before enabling Tap & Go, ensure that no obstacles are within the field.
-  The effective range of the target position for "Tap & Go" is within a radius of 50 meters of the drone (i.e. the green circle).

- ⚠ When the drone flies on routes, users can set the battery level for RTH (10%/15%/20%/25%) via the app. When the battery level is close to the preset value, the app will prompt "Low battery; returning". The drone will calculate the distance between its current position and the return point, and return automatically.

Operacja wielopolowa

When multiple fields need to be operated at a time, users can follow these steps to combine multiple fields for operation.

1. Open the "XAG One" app, and tap "Operation" on the home screen (main screen) to get ready.
2. Select the fields for operation on the map and then tap on "OK".
3. Tap on "Operation Settings" to access the basic or advanced settings for spraying and routes. Tap on "Field Operation Order" in the advanced settings to adjust the order of the fields to be operated.
4. Tap on "Start Operation" and confirm that all propeller blades are properly installed and unfolded with all clamps fastened. Make sure that no one is within 10 meters of the drone, and then slide right to confirm takeoff. The drone will take off automatically for spraying after it completes self-checking.

⚠ Uwaga

- ⚠ For a multi-field operation, up to 10 fields with a maximum total area of 13.33 hectares can be operated at a time.
- ⚠ Multi-field operations usually involve complex environments. To ensure flight safety, it is advisable to enable radar obstacle avoidance.
- ⚠ Before multi-field operation, all obstacles within the entire white area of the map need to be mapped to ensure flight safety.

Historia operacji

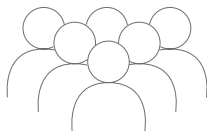
After operation, users can view field conditions via operation records. Operation data can be accessed through three different views: "My Operations", "Team Operations", and "Device Operations". Take "My Operacjas", for example.

1. Open the "XAG One" app, and tap on "Operation Records" on the home screen.
2. On the "Operation Records" screen, the total area, spray volume, spread amount, and duration of operation for the most recent time period will be displayed for the current account. Tap on a specific day to expand details, view all the operation records for that day, and perform conditional filtering. Tap on "More Dates" to select a date range and view the operation data report during that period.
3. Tap on  in the top right corner for local operation data on the drone and app.
4. Tap on  in the top right corner to "Migrate Operation Records".
5. Tap on the top left corner to switch between "Team Operations" and "Device Operations".

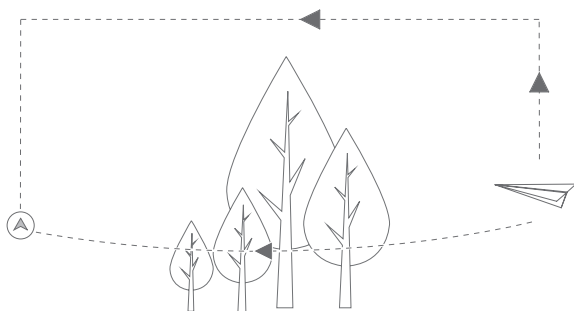
⚠ Uwaga

- ⚠ "My Operations" displays the current account's all operation data, including data from the team; suitable for operators. "Team Operations" provides operation data for the entire team; suitable for team leaders and managers. "Device Operations" allows users to view operation data based on the devices they own, including data generated during sharing.
- ⚠ Users can switch to team from the home screen. After switching to team, mapped fields, and operation records will automatically be attributed to the team and shared within the team.

Bezpieczne lądowanie



- The return point should be in an open area far from buildings and crowds. Make sure that the drone's return trip is free of obstacles.



- When the drone is flying back, the operator should monitor the environment around it and steer it away from any obstacle found on the route.
- Power off the drone once it lands safely.

Udostępnianie szablonów

After operation, users can share the operation parameter configurations of the fields via "Operation Template Sharing".

1. Open the "XAG One" app and tap "Operation Templates" on "Me" screen.
2. Select an operation template to view and edit its parameter configuration.
3. Tap on "Share" and enter the recipient's account to share the template with a friend.
4. Tap on "OK" to complete the sharing.

Udostępnianie urządzenia

Users (device owners) can share the use of a device with other users through device sharing, while the owner still possesses the device.

1. Open the "XAG One" app, and tap on "Me" - "Device" to get to the device list.
2. Select the drone to be shared, enter the "Device Details" screen, and tap on "Device Sharing".
3. Enter the recipient's account, set the duration for sharing, and tap on "OK".
4. Make sure the account is correct, and tap on OK. After the drone is shared, information on the shared device, recipient account, and duration will be displayed on the screen. Tap on "Stop Sharing" to withdraw the use of device.



Uwaga

- ⚠ Device owner will not be able to use the device when it is shared.
- ⚠ Device owner will not be able to withdraw the use of a device in operation.

Konserwacja

After each use, clean the spray parts and surface of the drone in a timely manner. Regular drone maintenance is required.

Czyszczenie po operacji

Pesticides are caustic and could corrode the device, shortening its lifespan. Clean the device timely after each use. The cleaning steps are as follows.

Detergent: soapy water or laundry powder/water mixture

- ① Fill the liquid tank with soapy water or the laundry powder/water mixture. Start spraying to clean pesticide residues in the spraying system.
- ② Fill the liquid tank with clean water and start spraying until all tubes are drained to wash off residual soapy water or the laundry powder/water mixture in the spraying system, avoiding damage to other objects during transportation or storage.
- ③ Wring out a damp rag and wipe the surface of the drone to remove pesticide stains and mud. Empty the liquid tank and drain the tubes if you need to transfer the drone or will not use it for an extended period.

Regularna konserwacja

Wear and tear as well as malfunctions in/of the device could occur as a result of ordinary use. Regular maintenance ensures that the device performs at its best in farming activities with fewer malfunctions and improved efficiency. Maintenance steps are as follows.

A. Rama

- ① Check if any screw on the airframe is loosening or missing.
- ② Check if the components including landing gears, fuselage, arms, motors, and antennas are secure.
- ③ Check if the connectors of each component are firmly in position, if they have oxidized, and if the battery plug is deformed.
- ④ Check breakages and cracks on the airframe and its components. Check if the beams of the drone are bent out of shape or cracked, if the fasteners joining the arms and motors together are secure, if the arms are bent and twisted, or if the parts on the arms are at a proper angle.
- ⑤ The drone should be cleaned regularly and thoroughly, especially those hard-to-clean spots including the liquid tank socket and battery plug on the airframe.

B. Układ napędowy

(1) Propeller

- ① Check by sight if the propeller clamps are cracked or deformed, and if the blades are loosening, damaged, bent out of shape, or softened.
- ② Check if the blades and clamps are properly joined.
- ③ Check if the setscrews holding the clamps and motors are missing or loosening.
- ④ Wipe the propellers clean with a damp rag.

(2) Motor

- ① Remove the propellers and clean the motors with an air blow gun.
- ② Rotate the motors and check whether the bearings wobble or make noise.
- ③ Check by sight if the enameled wires of the motors are damaged or broken.
- ④ Gently rock the motors and see if they are firmly fixed on the motor mounts.
- ⑤ Check the connectors and cables between motors and ESCs.

(3) ESC

- ① Remove the power plugs of the ESCs and check if the metal parts are deformed or oxidized.
- ② Check if the setscrews on the ESCs are missing or loosening.
- ③ Check if there is any dirt including pesticides on the heat dissipation part of the ESCs.

C. System RevoSpray

The spraying system requires calibration in the case of a large error (beyond plus or minus 5%) caused by chemical corrosion, thick pesticides, replacement of parts and impellers, etc. Calibration needs to be done with clean water in the liquid tank. If the health index remains unusual after calibration, check whether the impellers and spray tubes are in good condition. Replace the parts that shrivel, lose elasticity, or are out of shape/seriously worn.

(1) Impeller Pump

- ① Take apart the impeller pump and check the wear between the impeller and pump casing. Replace the impeller or pump casing if it is seriously worn.
- ② Check if the connectors of the RevoSpray system have come loose or oxidized, etc.
- ③ When the impeller pump is unable to function, check if there is enough liquid in the tank. The impeller pump could run dry without adequate liquid in the tank, triggering its anti-dry running protection. Please add a proper amount of clean water to the tank before operation.
- ④ Remove the impeller pump cover and check if there is any accumulation of caked powder or viscous chemicals between the impeller and pump casing that prevents the impeller from rotating properly. If so, remove the impeller and clean it with clean water.
- ⑤ For every 666.67 hectares of operation, one to two months of continuous operation, or when not in use for a long time, the gears inside the gearbox need to be regularly added heat-resistant lubricant for maintenance.

(2) Smart Liquid Tank

- ① Check the sealing ring of the liquid inlet
- ② Unscrew the cap, clean dirt off the filter, and check if the inner tubes are in good condition.

D. Układ zasilania

(1) Battery

- ① If the battery shows single blinking green after flight, charge it to 50%-60% in time for storage. Batteries not charged timely before storage could be less active, damaged or even have a shortened lifespan.
- ② Batteries not in use for an extended period should be charged and discharged every three months to be kept active.
- ③ When the battery is swelling, leaking, deformed, or having exterior damage, stop using it immediately and contact XAG or any XAG after-sales service center in time.

- ④ NEVER transport any potentially unsafe battery that is swelling, leaking, or having visible exterior damage.
- ⑤ Check by sight the exterior of the battery. If there is any damage, send it to any XAG after-sales center.
- ⑥ Do NOT charge the battery in a damp environment.
- ⑦ Do NOT insert or remove the battery when it is on, or its socket could be damaged.
- ⑧ Handle the battery with care; NEVER take it apart without permission.

(2) Supercharge Station

Elementy		Wskazówki konserwacyjne
Olej	Sprawdź poziom oleju	Check the oil level before each use; the oil level should fall between the MIN and MAX marks on the oil dipstick
	Wymień olej	Change oil after 20 hours of first use along with subsequent changes every 50 hours
Filtr powietrza	Sprawdź	Check the filter element of the air cleaner and the oil level in the oil reservoir before each use
	Wyczyść	Clean the air cleaner every 50 hours or every 20 hours in dusty areas
Świece zapłonowe	Wymień	Wymień it every 500 hours
Luz zaworów	Wyreguluj	Wyregulujment of valve lash by after-sales professionals is required every 500 hours
Zbiornik paliwa i Filtr	Wyczyść	Clean the fuel tank and filter every two years
Przewód olejowy	Wymień	Wymień it in the case of aging or cracking

(3) Power Socket

Poor contact, short circuits or sparking could occur in the battery, charger or socket as dust, liquid, or other foreign objects can stick to the power socket during use. Before and after the use of a power device, users should check and clean each component including the battery plug and socket, ensuring that the power socket remains clean, dry and free of foreign objects.

E. System czujników

After crop protection operations, clean the FPV camera lens of the sensor system. Gently wipe away any pesticide residue, stains, or debris from the lens. When the drone is stored for an extended period, regular cleaning and maintenance of the FPV camera lens are required. Before new operations, ensure that the camera lens is free of dust for smooth operations.

F. Urządzenia z bateriami litowymi

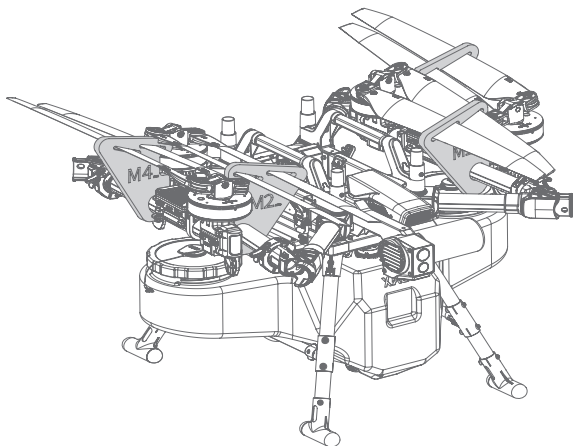
When not used for an extended period, in addition to the Battery, devices with lithium batteries including remote controllers should also be charged to 50% to 60% every two months for storage.

Przechowywanie urządzenia

Devices like batteries, drones, remote controllers and chargers should be stored in a dry place with a temperature between 10°C and 30°C. Do NOT store devices in leaky or damp places.

Transport

Fold the propeller blades of the drone and fasten them with blade holder for transportation. Meanwhile, fasten the drone with a safety belt. Make sure the drone is secure during transportation.



Uwaga

- ⚠ Please make sure the silk-screened marks M1 to M4 on the blade holders face towards the correct arm motor during installation. Insert the blade holders into the arms at the labels (Blade holders fit only the specified models).
- ⚠ For long-distance transportation, remove the spray rods of the drone before transportation.
- ⚠ Before transporting the drone, clean and empty its spraying system and drain all the liquid tubes, to avoid damage to other devices during transportation.
- ⚠ Pesticide packaging and sewage must be collected for proper disposal to avoid pesticide hazards and environmental pollution.
- ⚠ NEVER place batteries in the drone for transportation.
- ⚠ During transportation, do NOT drive while tired; devices should be stored separately with good air circulation to avoid poisoning by inhalation of pesticides.

Dodatek

Opis wskaźników

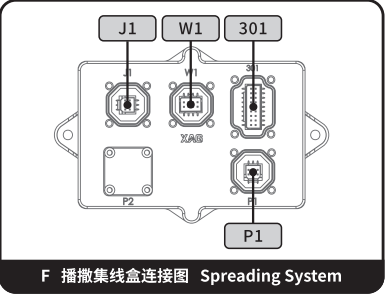
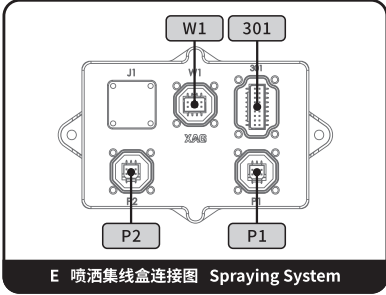
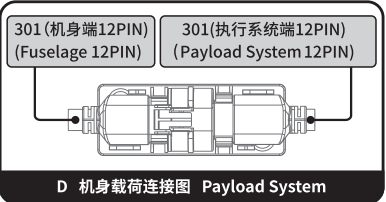
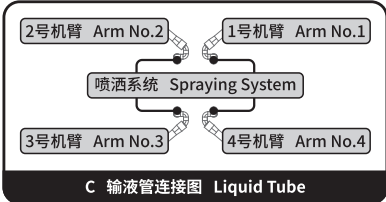
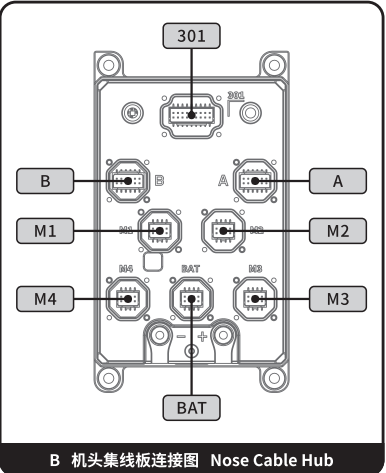
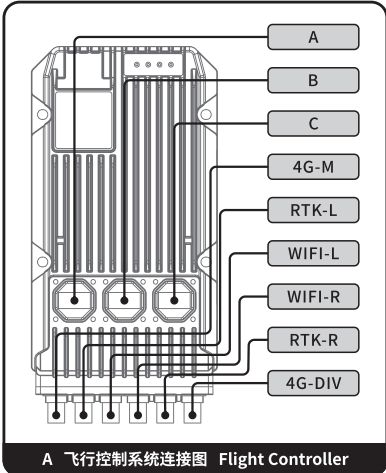
Determine the drone's current status by checking the indicators on the SuperX 5 Pro Intelligent Control System and arm lights (ESC indicators). Details are as follows.

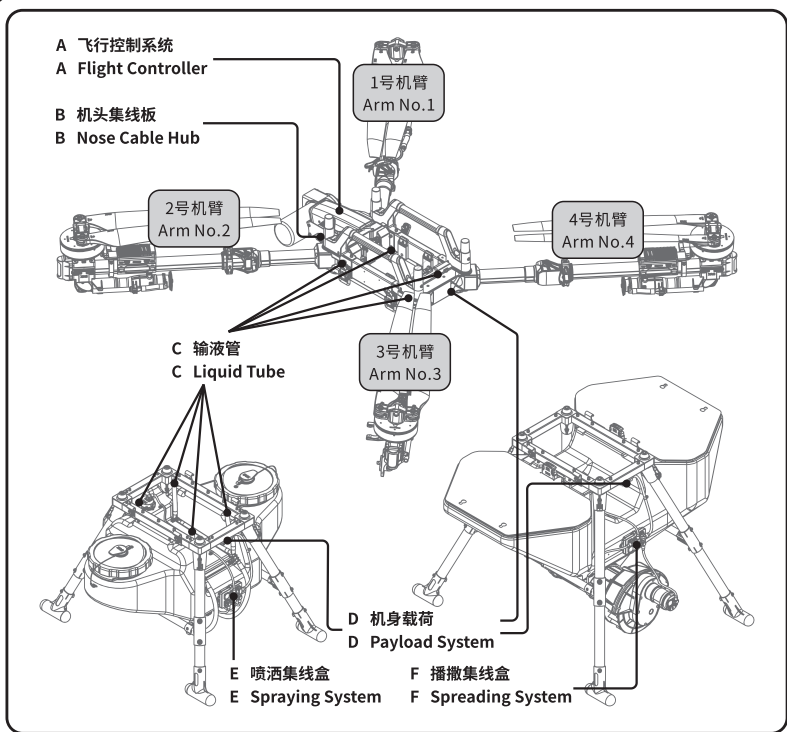
Kontroler lotu: RTK	Opis
Ciągłe czerwone	Brak wyszukiwania satelitów; brak pozycjonowania; brak sygnału z modułu PCB
Miganie czerwone (wolne)	Przekroczenie czasu RTK powyżej 10 s
Miganie zielone (wolne)	Normalny
Miganie czerwone (szybkie)	Wyjście z RTK; brak sygnału różnicowego; brak kursu
Miganie zielone (szybkie)	Mniej niż 16 satelitów; dokładność kursu mniejsza niż 2°
Podwójne miganie czerwono-zielone	Inicjalizacja/konfiguracja
Miganie czerwono-zielone (szybkie)	Aktualizacja oprogramowania
Kontroler lotu: 4G	Opis
Miganie czerwone (wolne)	Nie połączono z IoT
Miganie zielone (wolne)	Połączono z IoT
Miganie zielone (szybkie)	Słaba jakość sieci 4G
Kontroler lotu: Wi-Fi	Opis
Miganie czerwone (wolne)	Rozłączono z modułem Wi-Fi
Miganie zielone (wolne)	Połączono z modułem Wi-Fi
Podwójne miganie zielone	Połączono z kontrolerem zdalnym
Miganie zielone (szybkie)	Słaby sygnał Wi-Fi (połączenie z kontrolerem zdalnym)
Status kontrolera lotu	Opis
Ciągłe zielone	W trakcie operacji
Ciągłe białe	Błąd montowania systemu plików
Miganie czerwone (wolne)	Start/lądowanie
Pojedyncze miganie czerwone	Awaria GPS/znaczną utratę satelitów
Pojedyncze miganie zielone	Tryb stabilizacji
Pojedyncze miganie niebieskie	Tryb ręczny
Pojedyncze miganie fioletowe	Błąd inicjalizacji lub nagrzewanie
Miganie czerwone (szybkie)	Błąd czujnika

Miganie niebieskie (szybkie)	Błąd układu napędowego
Miganie fioletowe (szybkie)	Formatowanie kontrolera/nieprawidłowe parametry
Miganie żółte (szybkie)	Pierwsze niskie napięcie; poziom baterii: 20%
Podwójne miganie czerwone	Lot w trybie bezpiecznym; aplikacja lub kontroler odłączony od drona
Podwójne miganie czerwono-zielone	Słaby sygnał GPS
Potrójne miganie czerwone	Drugie niskie napięcie; poziom baterii: 10%
Potrójne miganie zielone	Automatyczny tryb GPS; dobry sygnał GPS
Naprzemienne miganie czerwono-zielono-niebieskie	Odblokowywanie
Lampka ramienia (wskaźnik ESC)	Opis
Ciągłe zielone	W trakcie operacji
Ciągłe białe	Błąd montowania systemu plików
Miganie czerwone (wolne)	Start/lądowanie
Miganie cyjanowe (wolne)	Aktualizacja głównego ESC
Pojedyncze miganie czerwone	Awaria GPS/znaczną utratę satelitów
Pojedyncze miganie zielone	Tryb stabilizacji
Pojedyncze miganie niebieskie	Tryb ręczny
Pojedyncze miganie fioletowe	Błąd inicjalizacji lub nagrzewanie
Miganie czerwone (szybkie)	Błąd czujnika
Miganie niebieskie (szybkie)	Błąd układu napędowego
Miganie cyjanowe (szybkie)	Główny ESC żąda aktualizacji
Miganie fioletowe (szybkie)	Formatowanie kontrolera/nieprawidłowe parametry
Miganie żółte (szybkie)	Pierwsze niskie napięcie; poziom baterii: 20%
Podwójne miganie czerwone	Lot w trybie bezpiecznym; aplikacja lub kontroler odłączony od drona
Podwójne miganie czerwono-zielone	Słaby sygnał GPS
Potrójne miganie czerwone	Drugie niskie napięcie; poziom baterii: 10%
Potrójne miganie zielone	Automatyczny tryb GPS; dobry sygnał GPS
Naprzemienne miganie czerwono-zielono-niebieskie	Odblokowywanie
Pulsujące niebieskie	1. Słaby sygnał komunikacji (powietrze) 2. Brak sygnału komunikacji (ziemia)
Pulsujące czerwone	Wejście, powrót lub omijanie przeszkód

模块接线指引

XAG 极飞科技





注意
CAUTION

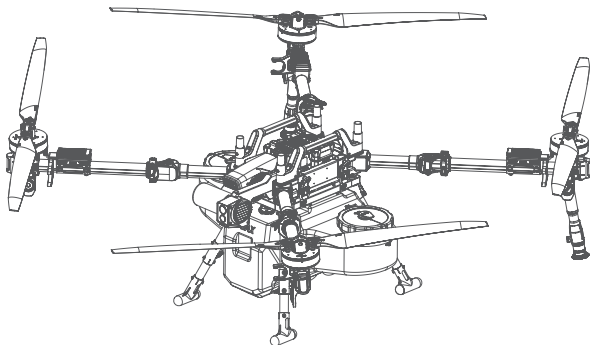
1. 禁止在通电状态下, 拆装任意模块。
Never disassemble or assemble any module while powered on.
2. 所有模块安装完毕后, 才可启动电源。
Do NOT turn the power on until all modules are installed.
3. 接线时保持接线头、接头槽、密封圈洁净。
Keep connectors, ports, and sealing rings clean when wiring.
4. 安装输液管时, 请勿压折。
Make sure tubes are not crushed or twisted when assembled.

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WIRING QUICK GUIDE

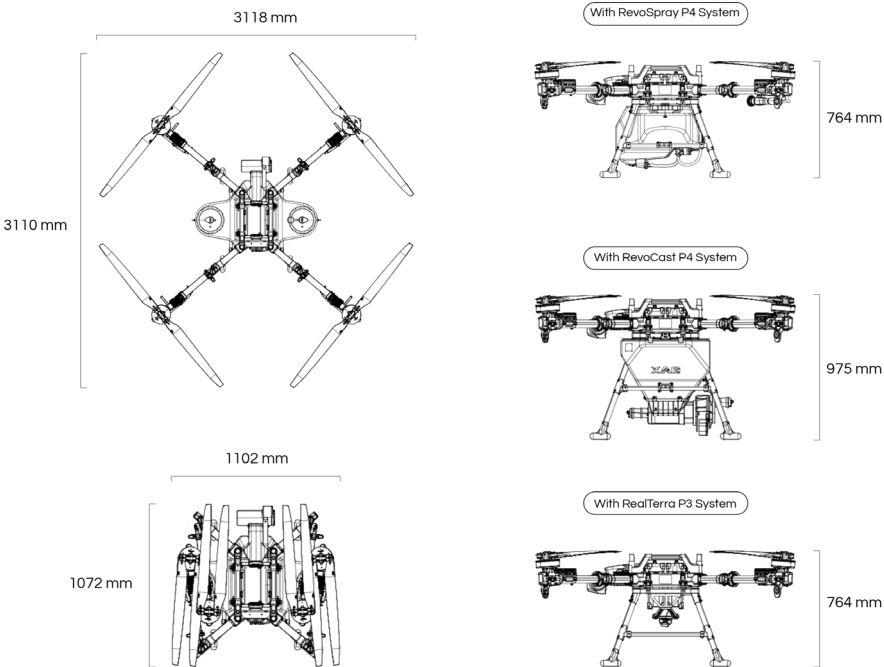
XAG 极飞科技

Specyfikacja techniczna



P150 Rolniczy BSP

Model	3WWDZ-60AH
System sterowania lotem	SuperX5 Pro (Cloud RTK)
Klasa ochrony IP	IPX6K
Materiał ramion	Stop aluminium
Rozstaw po przekątnej	2203mm



Układ napędowy

Silniki	
Model	A55
Wymiary stojana	145mm x 26mm
Maks. ciąg	55KG / Motor
KV	70RPM / V
Moc	4700W / Motor
Regulatory ESC	
Model	XESC-F360
Maks. ciągły prąd roboczy (30s)	120A
Maks. prąd wyjściowy	360A
Składane śmigła	
Model	Kompozyt z włókna węglowego
Średnica x skok	55 x 15 inch
Średnica	1530mm

Parametry lotu

Masa własna (Bez zbiornika i baterii)	30.00 Kg
Masa własna (Pusty zbiornik + bateria)	54.00 Kg (Z RevoSpray P4) 58.00 Kg (Z RevoCast P4)
Maks. masa startowa (Pełny zbiornik + bateria)	125.00 Kg (With RevoSpray P4) 149.00 Kg (With RevoCast P4)
19.23min (Take-off weight of 54Kg @20000mAh x 2)	
Czas zawieszenia ^[1]	5.0min (Take-off weight of 125Kg @20000mAh x 2)
Maks. prędkość operacyjna ^[2]	18.0m/s (With Good GNSS Signal)
Maks. wysokość operacyjna	100m
Maks. zasięg lotu	2,000m
Maks. pułap operacyjny n.p.m.	2,000m
Maks. odporność na wiatr	6m/s
Temperatura otoczenia pracy	0° C to 40° C
RTK włączony:	
Zakres dokładności zawieszenia (Z silnym sygnałem GNSS)	±10cm (Horizontal) ±10cm (Vertical)
	RTK wyłączony:
	±0.6m (Horizontal) ±0.3m (Vertical) (Radar Enabled ±0.1m)
Częstotliwość robocza	2.400 GHz - 2.4835 GHz; 5.725GHz - 5.850GHz

Moc transmisji (EIRP)	2.400 GHz - 2.4835 GHz ≤33 dBm (FCC) ≤20 dBm (CE/SRRC/MIC)
	5.725 GHz - 5.850 GHz ≤33 dBm (FCC) ≤30 dBm (SRRC) ≤14 dBm (CE)
Częstotliwość GNSS	GPS: L1C/A, LC1, L2C, L5 GLONASS: G1, G2 BDS: B1L, B1C Galileo: E1, E5a, E5b
	≤600s
Częstotliwość robocza 2G	CE: DCS 1800: 1710.2 - 1784.8MHz GSM900: 880.2 - 914.8MHz
Maks. moc transmisji 2G	Class 1 (30dBm) for DCS1800 Class 4 (33dBm) for EGSM900
Częstotliwość robocza 3G	CE: WCDMA Band 1 1922.4 -1977.6MHz WCDMA Band 8 882.4 - 912.6MHz
Maks. moc transmisji 3G	Class 3 (24dBm) for WCDMA bands
Częstotliwość robocza 4G	Band 1: 1922.5 MHz - 1977.5 MHz;
	Band 3: 1710.7 MHz - 1784.3 MHz;
	Band 7: 2502.5 MHz - 2567.5 MHz;
	Band 8: 880.7 MHz - 914.3 MHz;
	Band 20: 834.5 MHz - 859.5 MHz;
	Band 28: 704.5 MHz - 746.5 MHz;
Maks. moc transmisji 4G	Band 38: 2572.5 MHz - 2617.5 MHz;
	Band 40: 2302.5 MHz - 2397.5 MHz;
Maks. moc transmisji 4G	Class 3 (25dBm) for LTE-TDD bands

Kamery FPV

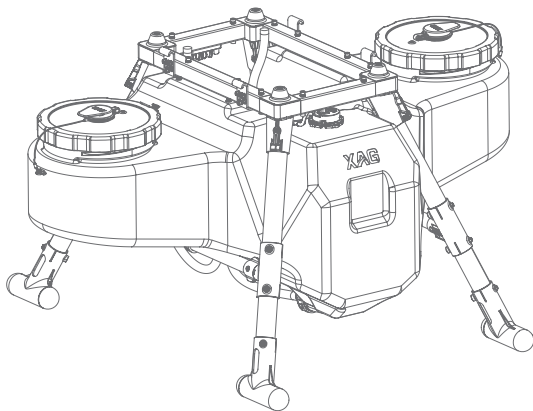
Napięcie robocze	24V
Rozdzielczość	1920 x 1080
Częstotliwość odświeżania	30fps
Format kodowania	H.264 / H.265
Ogniskowa	2.7mm
Sensor obrazu	1/2.8-inch CMOS-RGB Image sensor, Effective Pixels: 2MP

Czujnik i system omijania przeszkód ^[3]

Radar obrazowy 4D		
Model	RD2488	
Częstotliwość robocza	24.05 GHz - 24.25 GHz	
Napięcie robocze	24V	
Pobór mocy	12W	
Zasięg wykrywania	1.5m - 100m	
Tryb wykrywania	Formowanie wiązki, obrazowanie 4D	
Parametry wykrywania	Obstacle's Position, Distance, Direction and prędkość względna przeszkody	
Pole widzenia (FOV)	Poziomo:	±40°
	Pionowo:	+90° to -45°
Bezpieczna odległość graniczna	2.5m	
Warunki pracy	Min. wysokość względna:	≥ 1.5m
	Maks. prędkość względna:	≤ 18.0m/s
Tryb omijania przeszkód	Azymut, pochylenie, odległość, prędkość	

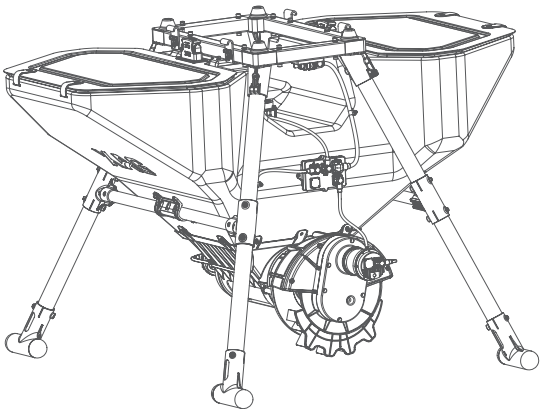
Radar terenu		
Model	TR24S100_24	
Napięcie	5V	
Moc	10 dBm	
Tryb wykrywania	Fale milimetrowe	
Częstotliwość robocza	24.05 GHz - 24.25 GHz	
Zasięg wykrywania wysokości	0.5 -100m (Relative Height from Vegetation)	
Zakres stałej wysokości	1.0 - 30m (Relative Height from Vegetation)	
Maks. nachylenie	45° (@ Flight Speed ≤ 2m/s)	

System RevoSpray P4



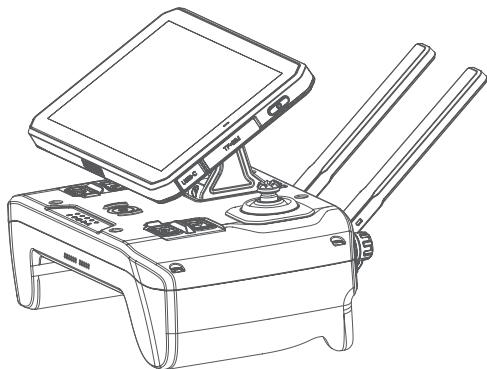
Model	M4TANP50A	
Wymiary	737mm x 738mm x 498mm	
Masa netto	7.83Kg	
Klasa ochrony IP	IPX6K	
Zbiornik cieczy		
Materiał	Plastic (PE)	
Objętość	70L	
Czujnik	Czujnik poziomu cieczy	
Dysze odśrodkowe rozpylające		
Typ dyszy	Odśrodkowy	
Ilość	2	
Długość belki natryskowej	1671mm	
Prędkość obrotowa tarczy natryskowej	1500RPM - 16000RPM	
	5m - 10m	
Szerokość oprysku ^[4]	(Zależne od prędkości lotu, wysokości, dawki, warunków otoczenia itp.)	
Wielkość kropli	60µm - 500µm	
Elastyczna pompa wirnikowa		
Ilość	2	
Napięcie	50V	
Typ pompy	Elastyczna pompa wirnikowa	
Przepływ ^[5]	0.5L - 15.0L/min	(Pojedyncza pompa)
	1.0L - 30.0L/min	(Obie pompy)

System RevoCast P4



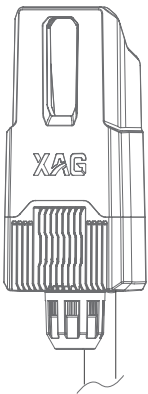
Model	M4RCP115AH
Klasa ochrony IP	IP65
Wymiary	1086mm x 1012mm x 743mm
Masa netto	14.80Kg
Pojemność znamionowa	115L
Obciążenie znamionowe	70Kg
	3m - 8m
Szerokość rozsiewu	(Subject to Flight Height, Seed's Weight & kształtu nasion, dawki, warunków otoczenia itp.)
Optymalna temperatura pracy	0° C to 40° C
Temperatura przechowywania	0° C to 40° C
Dopuszczalny rozmiar granulatu	1 - 10mm (Dry Solid Granule)
Dokładność ilości rozsiewu	±10% (Subject to Granule type and moisture)

Kontroler zdalny SRC4



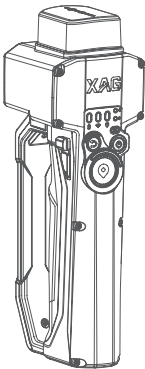
Model	M3SRC4AH	
Wymiary	192mm x 128.5mm x 125mm	
Klasa ochrony IP	1.0 Kg	
Obsługiwany system operacyjny	Android	
Pojemność baterii	20000mAh	
Temperatura otoczenia ładowania	5° C to 40 ° C	
Temperatura otoczenia pracy	[6]	-10° C to 40 ° C
		-20° C to 55 ° C
Temperatura przechowywania		-20° C to 45 ° C
		-20° C to 25 ° C
		Poniżej jednego miesiąca
		Od jednego do trzech miesięcy
		Od trzech miesięcy do roku
Napięcie/prąd ładowania	5V=3A, 9V=3A, 12V=3.5A, 15V=2.0A	
Maks. zasięg transmisji	[7]	2000 Meters
(Bez przeszkód, bez zakłóceń)		
Čzęstotliwość robocza	2.400 - 2.4835 GHz; 5.725 - 5.850GHz	
	2.400 GHz - 2.4835 GHz	
	≤33 dBm (FCC)	
	≤20 dBm (CE/ŠRRC/MIC)	
Moc transmisji (EIRP)	5.725 GHz - 5.850 GHz	
	≤33 dBm (FCC)	
	≤30 dBm (ŠRRC)	
	≤14 dBm (CE)	
Komunikat głosowy	Tak	
Jasność ekranu	700 cd/m2	
Rozdzielczość ekranu	1440 x 2560	
Rozmiar ekranu	6 inches	
Čzęstotliwość odświeżania ekranu	50 fps	
Typ karty pamięci	Class 10	

Przełącznik DL1



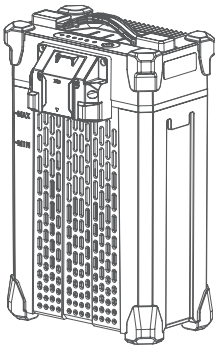
Model	M3DL1A	
Wymiary	331mm x 132mm x 75mm	
Masa	1.6 Kg	
Typ baterii	Li-ion	
Pojemność baterii	14.700mAh	
Klasa ochrony IP	IP65	
Pobór mocy	7.5W	
Złącze zasilania	USB Type-C	
Napięcie/prąd ładowania	5V=3A, 12V=3.5A, 15V=2.0A	
Temperatura otoczenia pracy	-20 ° C to 40 ° C	
Temperatura przechowywania otoczenia	-20 ° C to 45 ° C	Poniżej jednego miesiąca
	-20 ° C to 45 ° C	Od jednego do trzech miesięcy
	-20 ° C to 25 ° C	Od trzech miesięcy do roku
Częstotliwość robocza Wi-Fi	SRRC: 2.400 - 2.4835 GHz; 5.725 - 5.829GHz	
	FCC/CE: 2.400 - 2.4835 GHz; 5.725 - 5.850GHz	
	MIC: 2.400 - 2.4835 GHz	
Moc transmisji (EIRP)	2.400 GHz - 2.4835 GHz	
	≤33 dBm (FCC)	
	≤20 dBm (CE/SRRC/MIC)	
	5.725 GHz - 5.850 GHz	
	≤33 dBm (FCC)	
	≤30 dBm (SRRC)	
Maks. zasięg komunikacji (Bez zakłóceń / przeszkód)	SRRC: 2,000m	
	FCC: 2,000m	
	CE/MIC: 1,000m	
Kompatybilność	XAG 2024 SRC4	
	Dron rolniczy XAG model 2024	

XRTK6 Pro



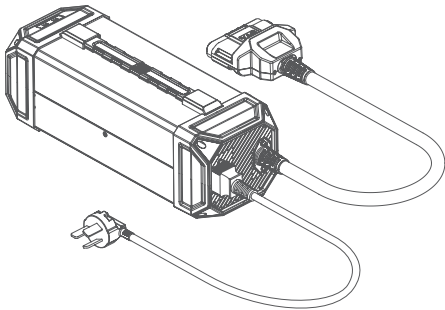
Model	M3RTK6B	
Wymiary	224mm x 66mm x 94mm	
Pojemność baterii	4800mAh / 7.38V	
Temperatura otoczenia pracy	0° C to 45° C	
Temperatura przechowywania otoczenia	-20° C to 55° C	Poniżej jednego miesiąca
	-20° C to 45° C	Od jednego do trzech miesięcy
	-20° C to 25° C	Od trzech miesięcy do roku
Napięcie/prąd ładowania	5V=2A, 9V=1.5A, 12V=1.5A	
Maks. zasięg transmisji (Bez przeszkód, bez zakłóceń)	FCC:	1500 Meters
	CE/SRRC/MIC:	1000 Meters
Częstotliwość robocza	SRRC:	2.4000GHz - 2.4835 GHz
Moc transmisji (EIRP)	GPS:	L1C/A, LCP(Y), L2C, L5;
	GLONASS:	L1, L2;
	BDS:	B1L, B2L, B3L
	Galileo:	E1, E5a, E5b
Dokładność pozycjonowania (Dobry sygnał RTK)	Poziomo:	<5.0cm + 1ppm (RMS)
	Pionowo:	<7.5cm + 1ppm (RMS)

Inteligentny akumulator



Model	M1PPA13970BH	
Wymiary	192mm x 139mm x 315mm	
Masa ^[8]	Approx. 6.6 Kg	
Typ baterii	Lithium Polymer (LiPo) Battery	
Pojemność znamionowa	20,000 mAh	
Energia	975 Wh	
Wyjście znamionowe	48.75V / 140A	
Maks. prąd ładowania	100A	
Temperatura pracy	10 ° C to 45 ° C	
Temperatura ładowania	10 ° C to 40 ° C	
Temperatura przechowywania	10 ° C to 30 ° C	
Klasa ochrony IP ^[9]	IP65	
Kompatybilne drony	Dron rolniczy XAG model 2021	
	Dron rolniczy XAG model 2022	
	Bezzałogowy pojazd naziemny XAG model 2022	
	Dron rolniczy XAG model 2023	
	Dron rolniczy XAG model 2024	
Kompatybilne ładowarki	XAG M2CM1-3600BH	(XAG CM13600)
	XAG M2CM15300DAH	(XAG CM15300D)
	XAG M2CM210600A	(XAG CM210600)

Ładowarka akumulatorów



Model	M2CM1-3600BH
Kompatybilne akumulatory	XAG B13860S (With Plug A1 Adapter)
	XAG B13960S
	XAG B13970
	XAG B13970S
Wymiary	329.73mm × 118.44mm × 110.44 mm
Masa	4.6 Kg
Temperatura pracy	-20 ° C to 40 ° C
Temperatura przechowywania	-20 ° C to 40 ° C
Tryb chłodzenia	Chłodzenie wymuszone powietrzem
Wejście	AC 100-120 Vac 50/60 Hz 15.0 A
	AC 220-240 Vac 50/60 Hz 15.0 A
Wyjście	DC 56.6 Vdc-21 A (Max)/1200 W (100-120 Vac 50/60 Hz)
	DC 56.6 Vdc-58 A (Max)/3300 W (220-240 Vac 50/60 Hz)

- [1]: The data presented is based on tests conducted under controlled laboratory conditions. Actual performance may vary due to factors such as environmental conditions, operational settings, and the drone's maintenance status.
- [2]: Flight speed must adhere to all applicable local laws and regulations.
- [3]: The effectiveness of the obstacle sensing and avoidance system is influenced by factors such as the material, shape, size, and position of obstacles. Always maintain visual contact with the drone during operation. Stay vigilant and manually adjust the drone's flight path using the remote controller to avoid obstacles when necessary.
- [4]: The recorded spray width of 8 meters was achieved under specific conditions: a flight altitude of 3 ± 0.5 meters, a flight speed of 3 m/s, and a pump flow rate of 5 L/min. This data is for reference purposes only.
- [5]: The actual minimum flow rate may vary based on route spacing, flight speed, environmental conditions, and other operational factors. For precise details, please refer to the XAG One app.
- [6]: The remote controller's battery performance may decline when operating in ambient temperatures below -5° C.
- [7]: This data is based on outdoor tests conducted in unobstructed, interference-free environments. Actual effective range may vary under different conditions and is provided for reference only.
- [8]: Battery weight may vary slightly between different production batches.
- [9]: The batteries have been tested under controlled conditions to be splash-resistant and water-resistant. However, this protective performance is not permanent and may diminish over time due to normal wear and usage.

Informacje o zgodności

Informacja o zgodności FCC

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment complies with FCC and Canada radiation exposure limits set forth for an uncontrolled pracy. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Brand name / model number: 3WWDZ-60AH

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

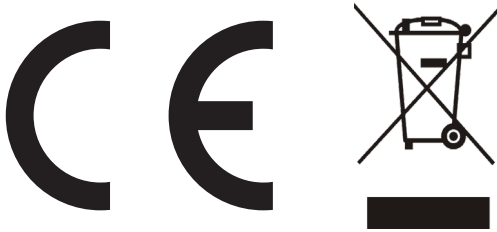
Suppliers Name(FCC): Pegasus Spray Inc

Suppliers Address (FCC): 2235 79th Ave NE, Medina, WA 98039, USA

Suppliers phone number and / or internet contact information: +1 (503) 866-1228

Deklaracja zgodności UE

Guangzhou Xaircraft Technology CO.,LTD.All Rights Reserved.hereby declares that this device is in compliance with the essential requirements and other relevant provisions of the RED Directive. This equipment must be installed and operated in accordance with provide instructions and the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operation in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



Ostrzeżenie: Operation of this equipment in a residential environment could cause radio interference.

“Hereby, **[Guangzhou Xaircraft Technology CO.,LTD]** declares that this **[P150 Agricultural Drone]** is in compliance with the essential requirements and other relevant provisions of 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

www.xa.com/en/service/downloads”

Suppliers Name(EU) NIK ELECTRONICS LTD

Suppliers Address (EU) Sofia, 11B Brussels Blvd., fl.13

Suppliers phone number and / or internet contact information 00359899952228

Note: The accessory kit includes two ring magnets, one large and one small. Attach the large ring magnet to cable 301 and the small one to the power supply cable on the cable hub.

Ostrzeżenie KCC

이 기기는 업무용 환경에서 사용할 목적으로 적합성 평가를 받은 기기로서 가정용 환경에서 사용하는 경우 안전사고의 우려가 있습니다 .



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Niniejsza instrukcja może być aktualizowana bez uprzedniego powi

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