

1-5X Digital Zoom Resolution Long Focus Camera FPV Drone for Detailed Surveillance -115°~40° Pitch 、 -40°-40° Roll -40°-40° Heading

Our Product Introduction

for more products please visit us on fovapower.com

Basic Information

- Brand Name: FOVA
- Certification: ROHS
- Model Number: FOVA X8 Thermal
- Minimum Order Quantity: 2
- Price: ¥20,000
- Packaging Details: 242*334*72.6 Mm (Without Paddle)
- Delivery Time: 30
- Payment Terms: T/T
- Supply Ability: 10000pcs/Mouth



Product Specification

- Expanded Body Size: 242*334*72.6 Mm (Without Paddle)
- Max. Takeoff Altitude: <6000 M
- GNSS: GPS+GLONASS+BeiDou+Galileo
- Max. Image Size: 8064*6048
- Take-off Weight: 1205 G
- Video Format: MP4
- Capacity: 5000 MAh≈333 G
- Max. Descent Speed: 4 M/s
- Highlight: Detailed Surveillance FPV Drone, Long Focus Camera FPV Drone



More Images



Product Description

FOVA X8 Thermal
Mini Unmanned Aerial
I Takeoff Weight 1025g
I Max.Flight Time 47 min
I Wheelbase 372 mm
I Max.Flight Speed 18 m/s

Our Product

Parameters


Aircraft	
Folding Body Size	204*106*72.6 mm (Without paddle)
Expanded Body Size	242*334*72.6 mm (Without paddle)
Bare Weight	855 g
Take-off Weight	1205 g
Wheelbase	372 mm
Max. Ascent Speed	5 m/s
Max. Descent Speed	4 m/s
Max. Flight Speed	18 m/s
Max. Takeoff Altitude	<6000 m
Max. Flight Time	47 min
Max. Range	33km
Max. Wind Rating	Level 7
Operating Temperature	-10~40°C
GNSS	GPS+GLONASS+BeiDou+Galileo
Expansion Joint	12-PIN Data Connector (Female)
Hovering Accuracy	Vertically ± 0.1 m / ± 0.5 m, Horizontal ± 0.3 m / ± 0.5 m
Wide Angle Camera	
Image Sensors	Digital
Zoom	1/2-inch CMOS, 48 megapixels
Digital Zoom	1~5X
Camera Lens	FOV 79°
Aperture	F/1.6
Camera Focus	4.71 mm
Equivalent Focal Length	24 mm
Depth	1 m to infinity
ISO Scope	Video 100-26500, photos 100-6400
Shutter Speed	1/8000 sec. to 2 sec
Effective Pixel	48 million
Max. Image Size	8064*6048
Max. Video Resolution	3840*2160@30fps
Video Max. Bitrate	100 Mbps
Video Format	MP4
Image Format	JPEG / DNG
Infrared Thermal Imaging Sensor	
Pixel pitch	12 microns
Video Resolution	640*480@30fps
Focal length	19mm
Equivalent Focal Length	80 mm
DFOV	30.7°
Aperture	F11
Focusing Distance	5 m to infinity
Palette	White Heat / Black Heat / Jungle / Iron Red / Rainbow / Aurora Borealis / Shimmer / Glow Gold / Red Heat / Medical / Gold Red
Long Focus Camera	
Image Sensors	1/2.5-inch CMOS
Digital Zoom	5-30X
Camera Lens	FOV 21.5°
Aperture	F/3.0
Camera Focus	14.46 mm
Equivalent Focal Length	120 mm
Depth	10 m to infinity
Effective Pixel	12 million
ISO Scope	Video 100-6400, photos 100-6400
Shutter Speed	1/8000 sec. to 2 sec.
Max. Image Size	4000*3000
Max. Video Resolution	3840*2160@30fps
Video Max. Bitrate	100 Mbps
Video Format	MP4
Image Format	JPEG / DNG
File System	FAT32 / exFAT
Long Life Edition Smart Battery	
Capacity	5000 mAh \approx 333 g
Weights	14.4 V
Rated Voltage	16.8 V
Charge Limit Voltage	Li-ion 4S
Battery Type	72wh


Energy	0~40°C
Charging	5000 mAh≈333 g
EnvironmentTemperature	
Payload	
Three-axis Structure Range	-115°~40° (Pitch),-40°~40° (Roll) -40°~40° (Heading)
Rotation Range	10°~90° (Pitch)
Angular Momentum Range	±0.005°

FOVA X8 Thermal


Triple-camera synergy, Capturing the whole perspective

Brand-new Triple-camera gimbal system | 640°480 19mm Thermal Infrared Lens
RokLink 5.0 20Km Video Transmission | AI Super Night Video







48 million
Pixels Photos,
8K hyperlapse



High-density
Intelligent Battery
38 minutes (47 minutes
Battery (Optional))




Megaphone
Module




Intelligent
Flight Modes

New Generation RokLink 5.0 20km digital Video Transmission System

The RokLink 5.0 system features enhanced RF sensitivity and improved adjacent frequency suppression. Leveraging modern communication technologies, it supports adaptive fast frequency hopping and dynamic modulation and coding, intelligently detecting electromagnetic interference and automatically adjusting uplink and downlink bandwidth. This ensures stable and clear image transmission with a range of up to 20 km and ultra-low latency as low as 120 ms, capturing distant landscapes with an immersive experience.



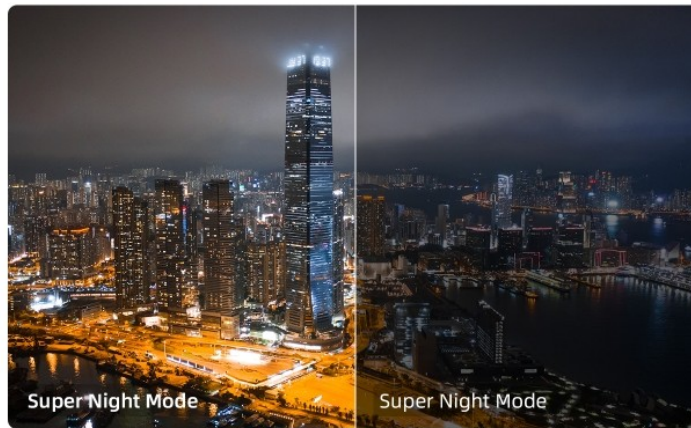


Remote Controller

The JADGER X8 Thermal remote controller was designed to be both original and ergonomic, offering better grip and comfort. Equipped with detachable joysticks and a stretchable body, the controller is compatible with all smartphones and even tablets, including the iPad mini.

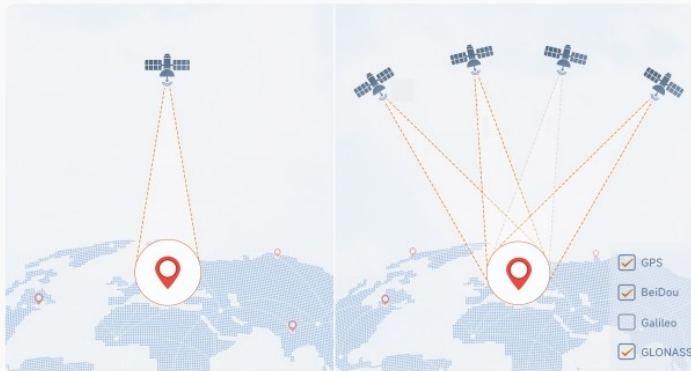
AI Super Night Video

The latest Generation AI ISP, super photosensitive and noise reduction, improves the signal-to-noise ratio by 4 times, can challenge larger image sensors, and capture pure and translucent images in low-light environments at night.



Multi-System GNSS Configurable

Supports Flexible GNSS System Configuration, compatible with the world's major satellite navigation systems (GPS, GLONASS, Galileo, BeiDou), it ensures optimal signal coverage and precise positioning in various environments. Users can freely choose one or multiple GNSS systems according to their specific needs, enabling a personalized positioning experience and meeting the accuracy requirements of different scenarios.



GPS Interference Auto-Return Technology

Equipped with advanced interference detection algorithms, the system continuously monitors GPS signal quality in real-time. Upon detecting signal anomalies or loss, it automatically initiates the return-to-home procedure, ensuring comprehensive safety for the device. By integrating data from onboard inertial sensors, vision sensors, and other systems, the drone can reliably return to its takeoff point even when the GNSS system is temporarily disrupted or suppressed.



Smart Distance Measurement

The FOVA X8 Thermal integrates advanced distance measurement technology with high-precision sensors, enabling accurate display of flight altitude and return distance even without GPS. This ensures reliable flight data and provides robust safety assurance for diverse mission scenarios.



Panorama

Create pictures from an omniscient viewpoint with just one tap.



Timelapse

Bring more inspiration with your time lapse footage.



Flight Planning

Preset your flight routes for shooting or task planning.
A snapshot is a masterpiece.



Smart Tracking Mode

Equipped with 2T AI computing power, capable of intelligent recognition of over 30 targets, including people, cars, boats, animals, and more. It can instantly lock onto and track the selected target in real-time.

Circular Flights

Free your hands and enjoy precise circular flights.



4K/30fps Video

Supports 4K/30fps high-speed video recording, each frame is full of lively details, and sports scenes are smoother and silkier.



3-Axis Mechanical Gimbal

Advanced three-axis mechanical stabilization gimbal with next-generation IOS algorithm. Featuring high-precision control and integrated high-performance brushless motors, this cutting-edge gimbal ensures rapid responsiveness and control accuracy of up to $\pm 0.01^\circ$. Its advanced stabilization algorithm and automatic tracking functionality guarantee optimal shooting and observation across various scenarios.



48 Million Pixels Photos

Native 48 million pixels photos effortlessly capture more detailed and vivid images, providing a clearer and more spectacular aerial photography experience.



4K HDR Videos Recording

Capture ultra-high-definition 4K HDR videos, wide dynamic range rendering enhances the contrast of the scene's light and shadow, revealing richer details and color layers.

The result is a more vivid and immersive graphic experience, as if being present in the moment.



4G Cellular Video Transmission Module

The X8 Thermal supports the brand-new 4G Cellular video transmission module from MMC, which can quickly and easily be installed without any tools. The module can be connected to Tele via USB cable, and the image displayed directly on the APP. It can use different telecom operators and provides stable and low-latency transmission signals. In cases where the original video transmission signal is blocked by objects or external interference, FOVA X8 Thermal can still be safely controlled through the 4G network.

*The product does not include 4G module and SIM card. Please purchase them separately.
The 4G Cellular video Transmission Module can support 4G function, but the actual usage may vary depending on the situation in each country.



Rainproof and Snow-proof

With an enhanced rain and snow-resistant design, flights are no longer limited by weather conditions. The downward auxiliary light provides directional guidance, ensuring safe flight and worry-free return, even in rain or snow.



Search and Rescue Mode

With its lightweight design, the device supports 20km long-range image transmission and up to 47 minutes of flight time. Equipped with a 640×480 resolution thermal imaging camera and precise GNSS positioning, it excels in quickly locating and locking onto targets, making it the ideal choice for SAR (Search and Rescue) missions.

30x
30x hybrid
zoom camera

GNSS
Real-time GPS
coordinates

20km
47 mins flight time and
20km transmission

640×480
Thermal Imaging
Resolution



Precision Landing

FOVA X8 Thermal Features a Professional Visual Imaging System, equipped with a newly upgraded downward vision system, it can intelligently recognize landing pads, enabling more precise landings.



Megaphone

Once mounted onto the drone, the module can remotely transmit voices or sounds. It can also store multiple audio files, support text-to-audio and automatic loop playback, and shout in real time.

With a maximum sound projection range of 100 meters, tasks such as search and rescue are quicker and easier than ever before.

*The range depends on the circumstances. In complex environments with noise, the best range is within 50 meters.



Release and Drop

The device can carry and drop a payload of up to 350g, allowing X8 Thermal to fly over obstacles and deliver urgently needed materials.

*The payload should not exceed 350g, and the smaller the size of the load, the better the drone will handle the flight. Note that when carrying a load, the drone's speed and deceleration distance are affected.



Wide-Angle, Tele, and Thermal Multi-Camera System

The first multi-camera system integrates a 48MP wide-angle camera, a 5x optical zoom tele camera, and a thermal camera with a 640 resolution.



The wide-angle camera features a Sony 1/2-inch sensor, supports 4K/30fps video recording, and works in tandem with the tele camera to achieve 30x hybrid zoom, capturing expansive views and distant details with precision. The thermal camera, equipped with a 19mm tele lens, offers a resolution of 640×480, enabling rapid target detection to support operational decision-making. Its diverse display modes-split screen, picture-in-picture, synchronized zoom, and pseudo-color imaging-meet the needs of various scenarios such as security monitoring, industrial inspections, building diagnostics, and outdoor exploration.

Multiple Protections for Safe Flights

All multiple safe protection functions ensure that X8 Thermal achieves a safe journey.



Rain-Proof
Design



Return Home
Modes



GPS Real-time
Tracking



Low-Battery
Alarm



Return Wind
Warning



Excessive
Power Warning



38-Minute Intelligent Flight Battery/47-Minute Intelligent Flight Battery Plus (Optional)

The Intelligent Flight Battery provides a maximum flight time of 38 minutes, ensuring safe and reliable flights for large-scale productions.

An optional Intelligent Flight Battery Plus is available, with a massive 5000mAh capacity and maximum flight time of 47 minutes, allowing for even more exciting flights and wonderful exploration of the vast sky and earth.



Accessory Port

This port allows for more DIY possibilities. It is compatible with a variety of accessories, including the megaphone module, allowing you to have more fun when flying.

*Megaphone module is optional.



Aircraft X 1



Battery X 1



Remote controller X 1



Charging case X 1



Charger X 1



Dust plug X 1



Positive propeller X 3
Reverse propeller X 3



USB cable X 3



Gimbal cover X 1



Instruction X 2

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Product Description:

The FPV Drone Kit is a cutting-edge aerial vehicle designed for a wide range of applications, from recreational flying to professional use in search and rescue, surveillance, and inspection operations. This advanced drone offers exceptional performance and versatility, making it an ideal choice for enthusiasts and professionals alike.

One of the standout features of the FPV Drone Kit is its impressive hovering accuracy, with vertically ± 0.1 M / ± 0.5 M and horizontal ± 0.3 M / ± 0.5 M. This precision allows for stable and smooth flight, essential for capturing high-quality aerial footage and executing complex maneuvers with ease.

When it comes to flight time, the FPV Drone Kit delivers outstanding endurance, with a maximum flight time of 33km. This long-endurance flight capability enables users to cover large distances and complete extended missions without the need for frequent battery changes, enhancing efficiency and productivity.

In terms of size, the expanded body dimensions of the FPV Drone Kit are 242*334*72.6 Mm (Without Paddle), providing a compact and streamlined profile for agile and stealthy operation. This sleek design minimizes radar and thermal signatures, making the drone ideal for covert missions and discreet surveillance tasks.

Equipped with GNSS technology, including GPS, GLONASS, BeiDou, and Galileo, the FPV Drone Kit offers reliable and accurate positioning capabilities for precise navigation and location tracking. This advanced satellite navigation system enhances flight safety and stability, allowing users to fly with confidence in various environments and conditions.

The three-axis structure of the FPV Drone Kit provides a wide range of motion, with pitch ranging from -115° to 40° , roll from -40° to 40° , and heading from -40° to 40° . This flexibility enables the drone to perform agile maneuvers and capture dynamic aerial footage from different angles, enhancing the creative possibilities for aerial photography and videography.

Overall, the FPV Drone Kit is a versatile and high-performance aerial platform that combines precision, endurance, and advanced features to deliver an exceptional flying experience. Whether you are a hobbyist looking to explore the skies or a professional operator in need of a reliable tool for specialized missions, this drone is sure to meet and exceed your expectations.

Stealthy Operation with Minimal Radar & Thermal Signature, Long-Endurance Flight with Max. Time of 47 Minutes, Ideal for Search & Rescue, Surveillance, & Inspection

Applications:

The FOVA X8 Thermal FPV Drone Kit is a cutting-edge product designed for various applications that require stealthy operation with minimal radar and thermal signature. This advanced drone kit, manufactured by FOVA and originating from SHENZHEN, is certified with ROHS and offers high-quality performance for surveillance and monitoring tasks.

With its high-resolution long focus camera featuring a FOV of 79° and camera focus of 4.71 mm, the FOVA X8 Thermal is ideal for detailed surveillance scenarios. Whether it's monitoring wildlife, conducting security patrols, or inspecting infrastructure, this drone kit provides clear and crisp imagery to support your operations.

The FOVA X8 Thermal FPV Drone Kit is perfect for a wide range of occasions and scenarios. Law enforcement agencies can use it for tracking suspects discreetly, while search and rescue teams can rely on its thermal imaging capabilities to locate missing persons even in challenging environments. Additionally, industrial inspections can benefit from the drone's ability to capture high-resolution visuals of equipment and structures.

For those interested in acquiring the FOVA X8 Thermal FPV Drone Kit, the minimum order quantity is 2 units, priced at ¥20,000 each.

The packaging details include dimensions of 242*334*72.6 mm (without paddle), ensuring safe transportation. The delivery time is estimated at 30 days, and payment terms are T/T. With a supply ability of 10,000 pcs/month, customers can rest assured that their orders will be fulfilled promptly.

Weighing 855 g and featuring a wheelbase of 372 mm, the FOVA X8 Thermal FPV Drone Kit is a versatile and reliable tool for professionals in need of advanced surveillance solutions. Its operating temperature range of -10°C to 40°C allows for operation in various environments, making it suitable for both indoor and outdoor use.

Support and Services:

The FPV Drone Kit comes with comprehensive Product Technical Support and Services to assist you in getting the most out of your drone. Our team of experts is available to provide guidance on setting up your drone, troubleshooting any technical issues you may encounter, and offering tips to enhance your flying experience. Additionally, our support services include regular software updates, maintenance recommendations, and access to online resources such as tutorials and user forums.

FAQ:

Q: What is the brand name of this FPV Drone Kit?

A: The brand name is FOVA.

Q: What is the model number of this FPV Drone Kit?

A: The model number is FOVA X8 Thermal.

Q: Where is this FPV Drone Kit manufactured?

A: It is manufactured in SHENZHEN.

Q: What certification does this FPV Drone Kit have?

A: It is certified with ROHS.

Q: What is the minimum order quantity for this FPV Drone Kit?

A: The minimum order quantity is 2.



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