

The background of the entire page is a close-up photograph of a black drone's internal mechanism, specifically the motor and propeller assembly. The drone is positioned diagonally across the frame. On the left side, there is a large, abstract graphic element composed of several overlapping triangles in shades of orange and red, creating a dynamic, geometric shape. The overall aesthetic is professional and high-tech.

MACH6

Intelligent six-rotor uav

Revolutionize • Realize



» **MACH6** Intelligent six-rotor uav

MACH6 is a six-rotor multi-functional UAV, professional industry application appearance modeling, can quickly fold and unfold in 5 minutes, using the latest intelligent flight platform and flight control technology to greatly improve the flight stability and operability. High standard integrated design is adopted to facilitate the extension of application functions of later products. Equipped with abundant airborne shooting equipment, dual mission load equipment and remote control of miniaturized real-time surveillance video, the product is simple, flexible, stable and reliable to control, and can easily realize the editing of 3D map navigation points, setting of flight routes. Coordinates, flight attitude, speed, real time video transmitting back, integrated RTK precision positioning system. With all these let the aerial surveying and mapping to achieve a more stable, more reliable, more professional, and can meet the demand of multidimensional accused of shooting, double intelligent battery design, compatible with air is less than 100 wh combination of intelligent battery design considerations, to adapt to all kinds of portable, rapid mission requirements, The combination of intelligent batteries can realize uninterrupted power supply replacement of power pool and uninterrupted airline task execution, greatly improving task efficiency. Independent sub-versions such as long-endurance version, 5G hangar and tethering are iterated on the standard version, which will penetrate into various professional fields and fully show the convenience brought by science and technology.

Flight function main parameter specification

Flight Mode	Manned flight、GPS、routing flight	Maximum horizontal flight speed	71.1 km/h, 19m/s
Maximum flight altitude	5 km	Max Cruise Speed	15m/s
Maximum flight radius	>7km	Max Wind Resistance	10.1 m/s (5 级风)
Weight	<5.0KG (No load, no battery)	Body Material	carbon fiber
Maximum load capacity	6KG	Waterproof Rate	2mm/min rainfall capacity, normal flight
maximum range	10KM	operating temperature	-10° C ~ 50° C
Hover precision	RTK model $\pm 1.0\text{cm}$, vertical ($\pm 1.5\text{cm}$ Horizontal $< \pm 1.0\text{m}$, vertical $< \pm 1.5\text{m}$)		
Maximum endurance (no load)	>45min®BDB100-Standard 2 batteries) (undetermined) >60min (Equipped with DB100H- special 2 batteries) (undetermined) >30min®BDB100A-Standard 6 small batteries) (undetermined)		



- Foldable design, fast folding and unfolding in 5 minutes
- Adopts the latest intelligent flight platform and flight control technology to greatly improve flight stability and operability
- High standard integrated design is adopted to facilitate the extension of application functions of later products
- Integrated RTK high-precision positioning system, so that aerial surveying and mapping to achieve more stable, more reliable, more professional
- Dual intelligent battery design, compatible with aviation less than 100WH combination of intelligent battery design considerations, to adapt to a variety of portable, fast task execution needs, the combination of intelligent battery can achieve uninterrupted power supply replacement battery, uninterrupted airline task execution



Various airborne shooting equipment and mounting equipment

- Airborne shooting equipment:

DAT9 (10x zoom)

DATA (4K camera)

DATF (twin-lens camera)

DATG (35x optical zoom)

DATN (10x zoom twin-len pan-tilt camera)

- Mounting equipment:

DAR1 Spotlight

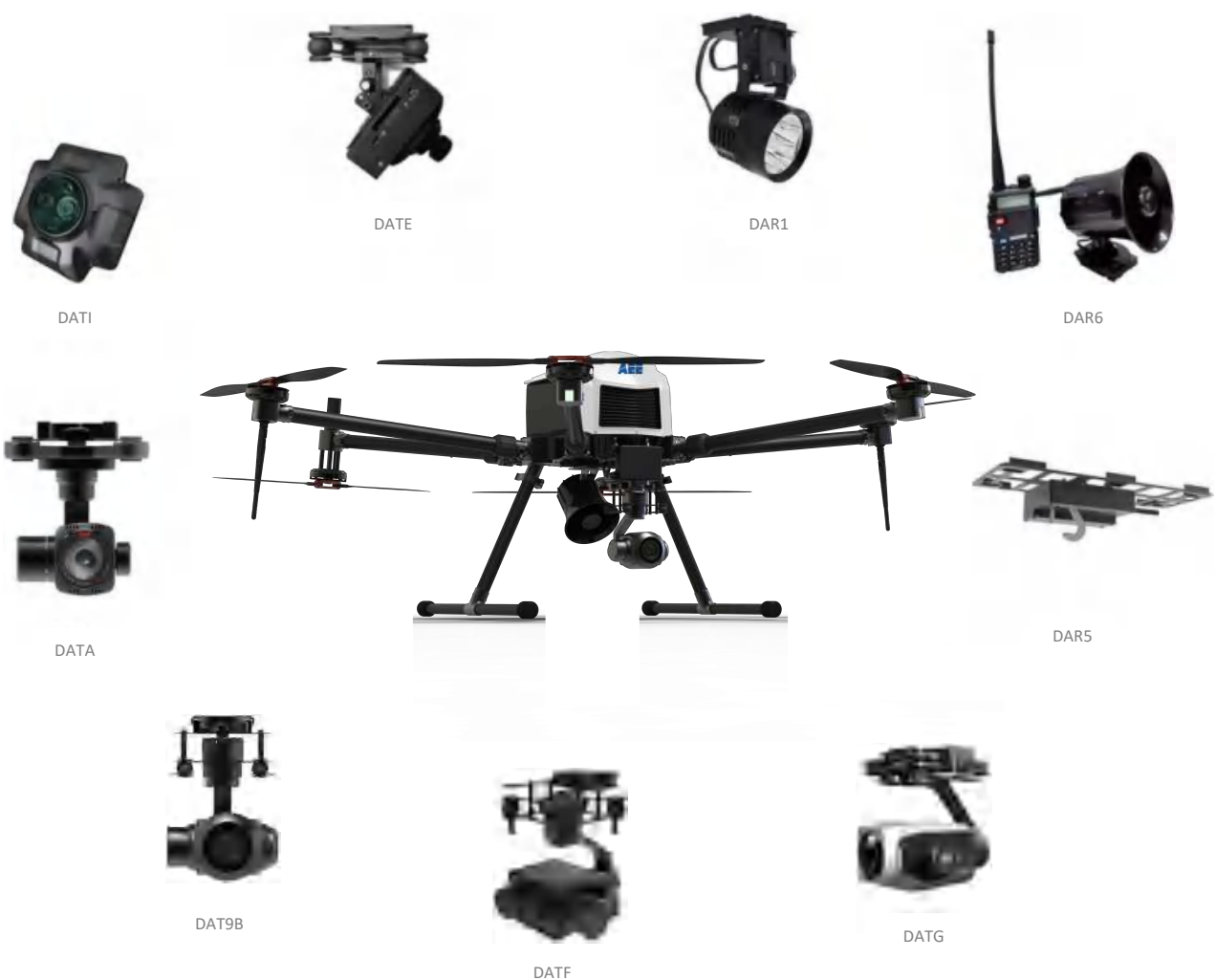
DAR2&DAR3 Megaphone

DATE Single-len mapping camera

DATI Five-len mapping camera

DAR5 Delivery hook

DAR6 Big power megaphone





DATA »
4K 3-axis pan-tilt camera

DATA PRO is a three-axis pan-tilt camera weighing about 260g, with a 30° field of view lens, which is clearer than the 100° lens for long-distance shooting and has 4K/30fps video resolution.

- Supports up to 4K/30fps resolution
- Telephoto lens, 30 view angle, shooting more clearly
- Built-in TF card design, maximum support 256GB
- Automatic white balance, automatic exposure
- Recording content loop coverage function



DAT9B »
10x optical zoom pan-tilt camera

DAT9 is a three-axis gimbal camera weighing about 370g, with 1080P video resolution

- Support 10x optical zoom
- Video recording 1080P/30fps, supports up to 4 million pixels picture;
- External TF card design, maximum support 32GB;
- Auto white balance, auto exposure, auto focus;
- Recording content loop coverage function (when the remaining memory <200M)



DATE »
Orthophoto mapping camera

DATE is a professional orthographic survey camera weighing about 180g, with 24 million ultra-high pixels, 6000x4000 picture resolution, making surveying and mapping images clearer, and applicable to Mach4, Mach6.

- Camera pixels: 24 million pixels
- Sensor size: 23.5mm x15.6mm
- Image resolution: 6000x4000
- Trigger time interval: 0.8 seconds
- Imaging angle (diagonal): 48.2 degrees (25mm), 35.2 degrees (35mm)
- Tilt angle: Ortho shot (vertical downward)
- Trigger mode: high and low level trigger
- Communication mode: GPIO, high and low level trigger control
- Working temperature: -10°C~50°C
- Dimensions: 75mm x65mm x24mm



DATI »
Five-lens mapping camera

DATI is a five-lens tilted photographic surveying device based on DATE, compensating for the lack of high-detail information in orthographic surveying. It can be used with the latest surveying software of the Y12 remote control to realize automatic route planning, fixed-point and timing surveying and mapping, Fixed distance exposure, load status display, low-power automatic return, and the corresponding functions of the original standard platform.

- Camera pixels: 120 million pixels (24 million X5 pixels)
- Image resolution: (6000x4000)X5
- Sensor size: APS-C frame, 23.5mm x15.6mm
- Picture format: JPG
- Focus method: physical fixed focus
- Lens focal length: tilt 35mm X4, vertical 25mm X1
- Aperture: 5.6
- Imaging angle (diagonal): 48.2 degrees (25mm), 35.2 degrees (35mm)
- Tilt angle: 45 degrees



DATF » **Three-axis twin-lens PTZ Camera**

DATF is a high-precision professional three-axis stabilization dual-optical gimbal, featuring high stability, small size, light weight, and low power consumption.

- Support infrared and visible light lens integration
- Optical lens to take photos with 5 million pixels
- External TF card design, maximum support 128GB
- Auto white balance, auto exposure auto focus
- Infrared lens resolution 640* *480
- With temperature measurement, the temperature measurement range is -20~200 degrees Celsius



DATG » **35x Optical Zoom PTZ Camera**

DATG is a high-precision professional three-axis stabilization dual-optical gimbal, with high stability, small size, 35 times optical zoom, and low power consumption.

- Support 35x optical zoom
- Optical lens to take pictures with 2 million pixels
- External TF card design, maximum support 128GB
- Auto white balance, auto exposure and auto focus
- M1080P



DAR5 » **Delivery Hook**

DAR5 is a delivery hook weighing about 115 grams. The delivery device has a mechanical load-bearing capacity of 5kg~10kg, making it easier to deliver items.

- Load-bearing Capacity : 5kg~10kg
- Power: DC 20V-35V
- Maximum Instantaneous Current: 1.5A Max
- Trigger Method: PWM
- Control Method: remote control directly control and view real-time status



DAR1 » **Searchlight**

DAR1 is a searchlight weighing about 435 grams, which can be controlled by remote control. The searchlight distance is more than 30 meters, which is very practical.

- Lamp Type: CREE XPL -LED
- Searchlight Distance: >30m
- Angle Range: remote control, 0°~80°
- Working Mode: strong light, burst flash
- Communication Method: UART
- Dimensions: 120mm x100mm x60mm
- Attention: long-term use, the surface temperature of the lamp body will rise, pay attention to avoid direct contact



DAR6 » **Megaphone**

The DAR2 is a megaphone weighing about 350 grams, and the talking distance is greater than 150 meters, which greatly enhances the drone's cruise and talking effect.

- Working Frequency: 400-470MHZ
- Frequency Response: 35-88KHZ
- Sound Propagation distance: more than150 meters
- Intercom Distance: over 5KM
- Distortion: 5% MAX
- Angle, range: Manual, 0° ~60°
- Intercom Mode: one-to-one setting
- Working Mode: adjustable sound level
- Working Temperature: -10°C~50°C
- Dimensions: 140mm x100mm x160mm

Remove within 5 minutes

Foldable design, quickly fold and unfold in 5 minutes

Novices can also get started immediately, installation is no longer an obstacle to flying freely



Multi-scenario application

Police, medical rescue, surveying and mapping, firefighting, land, communications, mining geography, aerial surveillance, traffic monitoring, power line inspection, real-time transmission of video to ground receiving equipment, and save high-definition video. It can be equipped with different airborne equipment to meet the needs of different tasks.

