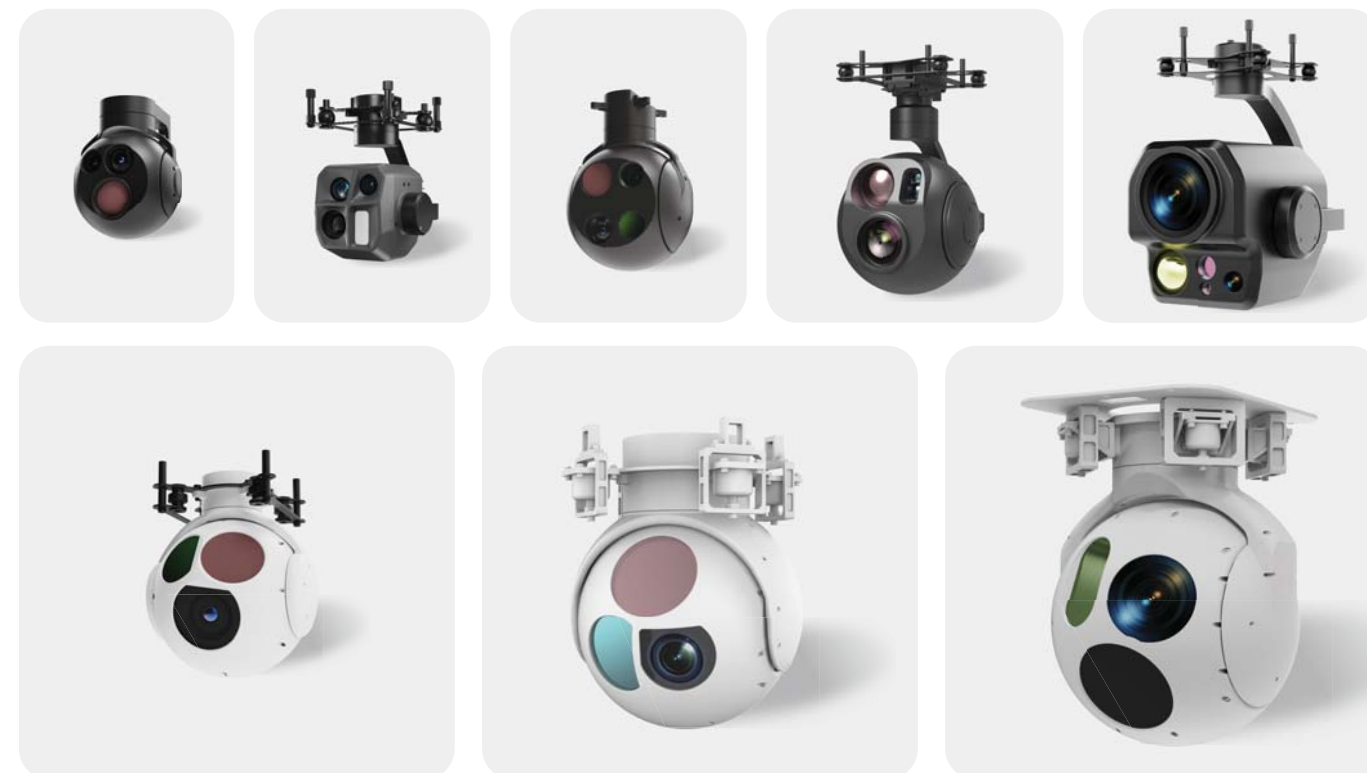




Make seeing easy

PRODUCT CLASSIFICATION

UD070D

Micro Gimbal Camera
(250g~500g)



UT130D

Small Gimbal Camera
(550g~1100g)



UT230T

Medium Gimbal Camera
(1300g~5000g)

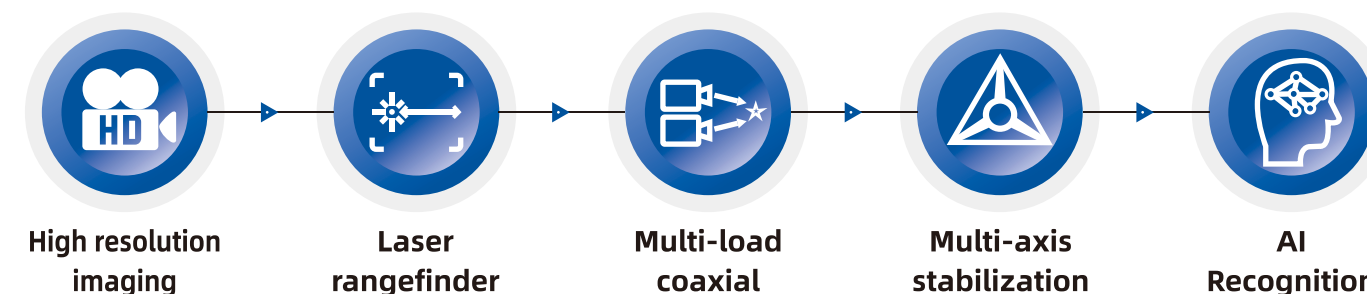


UD290T

Large Gimbal Camera
(> 5Kg)



Advantages



Core Highlight

Well-designed and properly calibrated multi-axis gimbal systems prioritize and actively work to maintain optimal optical alignment. Kimbal's critical alignment is essential for consistently achieving the desired field of view and framing, minimizing image artifacts and distortions, ensuring accurate tracking and targeting, and optimizing overall stabilization performance.

MICRO GIMBAL



Product introduction

The micro-range offers several model choices primarily characterized by their miniature size and lightweight design ($\leq 500\text{g}$). Despite their compact form factor, these models boast advanced payload camera capabilities, including crisp day and night imaging, a highly accurate and stable servo platform, and automatic target recognition and tracking. Notably, all models in this range are fully compatible, allowing for efficient integration with aircraft or unmanned systems of various size.



Specification

UD070D

Axis: two
Resolution: IR imager: 640×512, 25mm, 17.5°×13.1°; VL: 2560×1440, 16mm, 26.1°×14.9°
Servo Platform: Pan: -90°~+90°;
Tilt: -90° ~ +30°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ 1°/2Hz, 2°1Hz)
Anti-launch Impact: $\geq 400\text{g}$
Dimension: $\leq 70 \times 73 \times 93\text{mm}^3$; weight $\leq 250\text{g}$



UD070DB

Axis: two
Resolution: Wide-VL: 2560×1440, 4.45mm, 9.7°×50.3°; Long-VL: 2560×1440, 16mm, 26.1°×14.9°
Servo Platform: Pan: -90°~+90°;
Tilt: -90° ~ +30°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ 1°/2Hz, 2°1Hz)
Anti-launch Impact: $\geq 400\text{g}$
Dimension: $\leq 70 \times 73 \times 93\text{mm}^3$; weight $\leq 250\text{g}$



UD070T

Axis: two
Resolution: IR imager: 640×512, 25mm, 17.5°×13.1°; Wide-VL: 2560×1440, 4.45mm, 79.7°×50.3°; Long-VL: 2560×1440, 16mm, 26.1°×14.9°
Servo Platform: Pan: -90°~+90°;
Tilt: -90° ~ +30°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ 1°/2Hz, 2°1Hz)
Anti-launch Impact: $\geq 400\text{g}$
Dimension: $70 \times 73 \times 93\text{mm}^3$; weight $\leq 250\text{g}$



UD070TB

Axis: two
Resolution: Wide-VL: 2560×1440, 4.45mm, 79.7°×50.3°; Long-VL: 2560×1440, 16mm, 26.1°×14.9°; LRF: $\geq 1.2\text{km}$
Servo Platform: Pan: -90°~+90°;
Tilt: -90° ~ +30°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ 1°/2Hz, 2°1Hz)
Anti-launch Impact: $\geq 400\text{g}$
Dimension: $70 \times 73 \times 93\text{mm}^3$; weight $\leq 250\text{g}$



UT070T

Axis: three
Resolution: IR imager: 640×512, 25mm, 17.5°×13.1°; Wide-VL: 2560×1440, 4.45mm, 79.7°×50.3°; Long-VL: 2560×1440, 16mm, 26.1°×14.9°
Servo Platform: Pan: -90°~+90°;
Tilt: -90° ~ +30°; Roll: -40°+40°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ 1°/2Hz, 2°1Hz)
Dimension: $\leq 71.5 \times 89.3 \times 97.9\text{mm}^3$; weight $\leq 300\text{g}$



CT100Q

Axis: three
Resolution: IR imager: 640×512, 19mm, 22.8°×18.4°; Wide-VL: 48Million, 83°×53°; Long-VL: 48Million, 29°×23.5° ~ 9°×7°
LRF: $\geq 1.2\text{km}$
Servo Platform: Pan: 360°×n;
Tilt: -130° ~ +90°; Roll: -60°+60°
Stabilization Accuracy: $\leq 0.05\text{mrad}$ (1σ)
Dimension: $90 \times 105 \times 124\text{mm}^3$; weight $\leq 380\text{g}$



UD090S (tracking optional)

Axis: two
Resolution: VL: 1920×1080, 4.8mm ~ 48mm, 60.2°×33.9° ~ 6.6°×3.7°
Servo Platform: Pan: 360°×n;
Tilt: -120° ~ +90°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ)
Dimension: $88 \times 81.6 \times 131\text{mm}^3$; weight $\leq 400\text{g}$



UT090S

Axis: three
Resolution: VL: 1920×1080, 4.8mm ~ 48mm, 60.2°×33.9° ~ 6.6°×3.7°
Servo Platform: Pan: 360°×n;
Tilt: -115° ~ +90°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ)
Dimension: $88 \times 109 \times 131\text{mm}^3$; weight $\leq 400\text{g}$



SMALL GIMBAL



Product introduction

The small range features small size and light weight ($\leq 1100\text{g}$), though their small size, they are equipped with advanced EO/IR/LRF cameras, offering flexible payload configurations. Among these, 130series is equipped with a quick-release parts for easy installation and disassembly, and they are designed into oblique arm and straight arm for option to select the appropriate model. All these models are made of alloy components and industrial-grade devices, can be integrated to the small and micro drones for energy inspection and forest firefighting and other application.



Specification

UD100S (25x or 30x optional)

Axis: two
Resolution: VL: 1920×1080
5.1~153mm, 55.2°×31.1° ~ 2.7°×1.5°
or 5 ~ 125mm, 56.5°×33.8° ~ 2.4°×1.3°
Servo Platform: Pan: 360°×n; Tilt: -120° ~ +90°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ)
Maximum Tracking Angular Velocity: 50°/s
Dimension: 108×105×151mm³; weight $\leq 550\text{g}$



UT100SB

Axis: three
Resolution: IR imager: 640×512
(1280×1024 optional), 35mm, 12.5°×10°;
Servo Platform: Pan: 360°×n;
Tilt: -110° ~ +45°; Roll: -40° ~ +40°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ)
Maximum Tracking Angular Velocity: 50°/s
Dimension: $\leq 108 \times 125 \times 168\text{mm}^3$;
weight $\leq 700\text{g}$



UT100T

Axis: three
Resolution: IR imager: 640×512, 25mm,
17.5°×13.1°; VL: 1920×1080, 4.8mm ~ 48mm,
60.2°×33.9° ~ 6.6°×3.7°; LRF: $\geq 1.2\text{km}$
Servo Platform: Pan: 360°×n;
Tilt: -110° ~ +45°; Roll: -40° ~ +40°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ)
Maximum Tracking Angular Velocity: 50°/s
Dimension: $\leq 108 \times 123 \times 200\text{mm}^3$;
weight $\leq 750\text{g}$



UT130D

Axis: three
Resolution: IR imager: 640×512, 35mm
(50mm optional), 12.5°×10°; VL: 1920×1080,
4.8~158mm, 58.9°×33.1° ~ 2.4°×1.4°
Servo Platform: Pan: 360°×n;
Tilt: -110° ~ +90°; Roll: -40° ~ +40°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ)
Maximum Tracking Angular Velocity: 50°/s
Dimension: $\leq 130 \times 153 \times 212\text{mm}^3$; weight $\leq 1.1\text{kg}$



UT100S

Axis: three
Resolution: VL: 1920×1080 4.3mm ~ 129mm,
63.7°×35.8° ~ 2.3°×1.3°
Servo Platform: Pan: 360°×n;
Tilt: -110° ~ +45°; Roll: -40° ~ +40°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ)
Maximum Tracking Angular Velocity: 50°/s
Dimension: $\leq 108 \times 125 \times 168\text{mm}^3$; weight $\leq 700\text{g}$



UD100Q

Axis: two
Resolution: IR imager: 640×512, 25mm,
17.5°×14.0°; Wide-VL: 1920×1080, 8mm,
38°×22°; Long-VL: 1920×1080, 50mm,
6.4°×3.6°; LRF: $\geq 2\text{km}$
Servo Platform: Pan: -110° ~ +110°; Tilt: -90° ~ +30°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ 1°/
2Hz, 2°1Hz)
Maximum Tracking Angular Velocity: 50°/s
Dimension: $\leq 105 \times 91.4 \times 148.4\text{mm}^3$; weight $\leq 800\text{g}$



UT120D

Axis: three
Resolution: IR imager: 640×512, 25mm,
17.5°×13.1°; VL: 1920×1080, 4.25 ~ 170mm,
62.1°×37.4° ~ 1.7°×0.97°; Other three configuration :
IR imager-35mm + VL-30x, VL-40x, VL-55x
Servo Platform: Pan: 360°×n;
Tilt: -110° ~ +45°; Roll: -40° ~ +40°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ)
Maximum Tracking Angular Velocity: 50°/s
Dimension: $\leq 120 \times 130 \times 199\text{mm}^3$; weight $\leq 1\text{kg}$



UT130T (oblique arm or straight arm optional)

Axis: three
Resolution: IR imager: 640×512, 35mm
(50mm optional), 12.5°×10°; VL: 1920×1080,
4.8~158mm, 58.9°×33.1° ~ 2.4°×1.4°; LRF: $\geq 3\text{km}$
Servo Platform: Pan: 360°×n; Tilt: -110° ~ +
90° (straight arm) ; Roll: -40° ~ +40°
Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1 σ)
Maximum Tracking Angular Velocity: 50°/s
Dimension: $\leq 130 \times 153 \times 212\text{mm}^3$; weight $\leq 1.1\text{kg}$

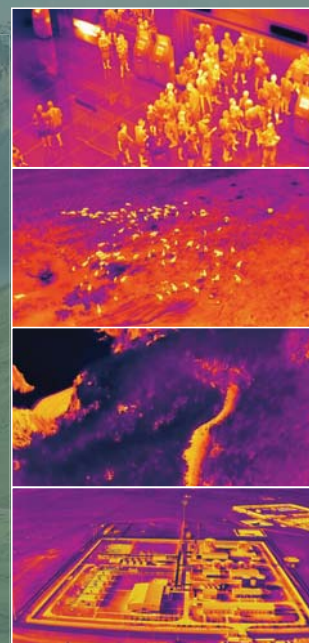


MEDIUM GIMBAL



Product introduction

With a weight of $\leq 5\text{kg}$, the medium-size range offers a choice of two-axis or three-axis stabilization. Featuring at least two integrated sensors—thermal imaging and HD CMOS—these models, controlled by View Control Studio, achieve and maintain high stability ($\leq 0.05\text{mrad}$) during movement. This capability makes them particularly well-suited for advanced AI tracking functionalities.



Specification

UD140D

Axis: two

Resolution: IR imager: 640×512 , 35mm(50mm optional), $12.5^\circ \times 10^\circ$; VL: 1920×1080 , 4.3mm $\sim 129\text{mm}$, $63.7^\circ \times 35.8^\circ \sim 2.3^\circ \times 1.3^\circ$

Servo Platform: Pan: $360^\circ \times \infty$; Tilt: $-120^\circ \sim +90^\circ$

Stabilization Accuracy: $\leq 0.05\text{mrad}$ (1σ)

Maximum Angular Velocity: $60^\circ/\text{s}$

Dimension: $140 \times 152 \times 188\text{mm}^3$; weight $\leq 1.3\text{Kg}$



UD140T (IR1280 optional)

Axis: two

Resolution: IR imager: 640×512 , 35mm(50mm optional), $12.5^\circ \times 10^\circ$; VL: 1920×1080 , 4.3mm $\sim 129\text{mm}$, $63.7^\circ \times 35.8^\circ \sim 2.3^\circ \times 1.3^\circ$; LRF: $\geq 3\text{km}$

Servo Platform: Pan: $360^\circ \times \infty$; Tilt: $-120^\circ \sim +90^\circ$

Stabilization Accuracy: $\leq 0.05\text{mrad}$ (1σ)

Maximum Angular Velocity: $60^\circ/\text{s}$

Dimension: $140 \times 152 \times 188\text{mm}^3$; weight $\leq 1.3\text{Kg}$



UD155Q

Axis: two

Resolution: Wide-IR imager: 640×512 , 9.1mm, $45.8^\circ \times 37.3^\circ$; IR imager: 640×512 , 45mm, $9.75^\circ \times 7.81^\circ$; VL: 1920×1080 , 4.3mm $\sim 129\text{mm}$, $63.7^\circ \times 35.8^\circ \sim 2.3^\circ \times 1.3^\circ$; LRF: $\geq 3\text{km}$

Servo Platform: Pan: $360^\circ \times \infty$; Tilt: $-120^\circ \sim +20^\circ$; Tilt angle: $-120^\circ \sim +20^\circ$ (positive upward)

Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ)

Maximum Angular Velocity: $60^\circ/\text{s}$

Dimension: $155 \times 165 \times 211\text{mm}^3$; weight $\leq 2\text{Kg}$



UT150Q

Axis: three

Resolution: IR imager: 1280×1024 , 35mm, $24.8^\circ \times 19.9^\circ$; Wide-VL: 4056×3040 , $83^\circ \times 53^\circ$; VL: 3840×2160 ; 65.2 $\times$ 39.6 $\sim 1.4 \times 0.8^\circ$; LRF: $\geq 3\text{km}$

Servo Platform: Pan: $360^\circ \times \infty$;

Tilt: $-110^\circ \sim +45^\circ$; Roll: $-45^\circ \sim +45^\circ$

Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ)

Maximum Angular Velocity: $60^\circ/\text{s}$

Dimension: $146.4 \times 224.8 \times 225.1\text{mm}^3$; weight $\leq 1.9\text{Kg}$



UD190T

Axis: two

Resolution: VL: 1920×1080 , $63.7^\circ \times 35.8^\circ \sim 2.3^\circ \times 1.3^\circ$; IR imager: 640×512 ; 75mm, $5.9^\circ \times 4.7^\circ$; LRF: $\geq 6\text{km}$

Servo Platform: Pan: $360^\circ \times \infty$; Tilt: $-120^\circ \sim +20^\circ$

Stabilization Accuracy: $\leq 0.05\text{mrad}$ (1σ)

Maximum Angular Velocity: $\geq 60^\circ/\text{s}$

Dimension: $200 \times 218 \times 270\text{mm}^3$; weight $\leq 5\text{Kg}$



UD200T

Axis: two

Resolution: VL: 1920×1080 , 30x, $64^\circ \times 36^\circ \sim 2.3^\circ \times 1.3^\circ$; Cooled IR imager: 640×512 , 100/210mm, $5.5^\circ \times 4.4^\circ / 2.6^\circ \times 2.1^\circ$; LRF: 6km

Servo Platform: Pan: $360^\circ \times \infty$; Tilt: $-120^\circ \sim +90^\circ$

Stabilization Accuracy: $\leq 0.05\text{mrad}$ (1σ)

Maximum Angular Velocity: $60^\circ/\text{s}$

Dimension: $200 \times 218 \times 270\text{mm}^3$; weight $\leq 5\text{Kg}$



UD155T (IR1280 optional)

Axis: two

Resolution: IR imager: 640×512 , 60mm, $7.3^\circ \times 5.8^\circ$; VL: 1920×1080 , 4.3mm $\sim 129\text{mm}$, $63.7^\circ \times 35.8^\circ \sim 2.3^\circ \times 1.3^\circ$; LRF: $\geq 3\text{km}$

Servo Platform: Pan: $360^\circ \times \infty$; Tilt: $-115^\circ \sim +90^\circ$

Stabilization Accuracy: $\leq 0.1\text{mrad}$ (1σ)

Maximum Angular Velocity: $60^\circ/\text{s}$

Dimension: $155 \times 165 \times 211\text{mm}^3$; weight $\leq 2\text{Kg}$



UD220TC (1280 optional)

Axis: two

Resolution: VL: 1920×1080 , 30x, $64^\circ \times 36^\circ \sim 2.3^\circ \times 1.3^\circ$; Cooled IR imager: 640×512 , 45mm $\sim 200\text{mm}$, $12.2^\circ \times 9.8^\circ \sim 2.8^\circ \times 2.2^\circ$; LRF: 6km

Servo Platform: Pan: $360^\circ \times \infty$; Tilt: $-115^\circ \sim +90^\circ$

Stabilization Accuracy: $\leq 0.05\text{mrad}$ (1σ)

Maximum Angular Velocity: $60^\circ/\text{s}$

Dimension: $200 \times 218 \times 270\text{mm}^3$; weight $\leq 5\text{Kg}$

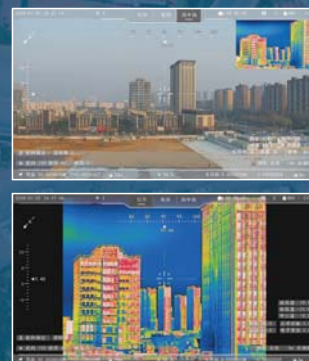


LARGE GIMBAL



Product introduction

The large-size gimbal range, weighing over 5kg, offers a standard two-axis (pan and tilt) configuration. Each model incorporates a minimum of three optically aligned sensors, including thermal imaging, HD CMOS, and long-range detection, ensuring exceptional image quality and positioning accuracy. The complimentary View Control Studio software provides seamless control over these integrated multi-sensors. This range is optimally designed for professional-grade aerial vehicles.



Specification

UD220T

Axis: two
Resolution: VL: 1920×1080, 30x, 64°×36°~2.3°×1.3°; IR imager: 640×512, 25/88mm, 17.5°×14°/5°×4°; LRF: ≥6km
Servo Platform: Pan: 360°×n; Tilt: -120°~+90°
Stabilization Accuracy: ≤0.05mrad (1σ)
Maximum Angular Velocity: 60°/s
Dimension: 220×233×291mm³; weight≤6.4Kg



UD220TB

Axis: two
Resolution: VL: 1920×1080, 30x, 64°×36°~2.3°×1.3°; IR imager: 640×512, 15~75mm, 28.7°×23.2°~5.9°×4.7°; LRF: ≥6km
Servo Platform: Pan: 360°×n; Tilt: -115°~+90°;
Stabilization Accuracy: ≤0.05mrad (1σ)
Maximum Angular Velocity: 60°/s
Dimension: 220×235×303mm³; weight≤6.4Kg



UD230TB (four-framework optional)

Axis: two
Resolution: VL: 1920×1080, 15x, 25°×14°~2°×1°; IR imager: 640×512, 65mm, 6.8°×5.4°; LRF: ≥4km; LIM: ≥3km
Servo Platform: Pan: 360°×n; Tilt: -110°~+10°
Stabilization Accuracy: ≤0.02mrad (1σ/1Hz, 2°/1Hz)
Maximum Angular Velocity: 60°/s
Dimension: 230×211×326mm³; weight≤6.6Kg



UD230TC (Cooled)

Axis: two
Resolution: VL: 1920×1080, 30x, 64°×36°~2.3°×1.3°; IR imager: 640×512, 14x, 27.0°×21.7°~2.0°×1.6°; LRF: ≥6km
Same configuration three axis is available
Servo Platform: Pan: 360°×n; Tilt: -120°~+90°
Stabilization Accuracy: ≤0.04mrad (1σ)
Maximum Angular Velocity: 60°/s
Dimension: 230×229×317.5mm³; weight≤8.5Kg



UT230T

Axis: three
Resolution: VL: 1920×1080, 30x, 64°×36°~2.3°×1.3°; IR imager: 640×512, 4x, 17.5°×14°~4.4°×3.5°; LRF: ≥6km
Same configuration two axis is available.
Servo Platform: Pan: 360°×n; Tilt: -120°~+90°; Roll: -30°~+30°
Stabilization Accuracy: ≤0.05mrad (1σ)
Maximum Angular Velocity: 60°/s
Dimension: 254×294×349mm³; weight≤11Kg



UD260T

Axis: two
Resolution: VL: 1920×1080, 30x, 64°×36°~2.3°×1.3°; IR imager: 640×512, 5x, 19.8°×15.9°~3.8°×3.1°; LRF: ≥6km Other configuration Cooled IR-15x + VL-30x + LRF-6km
Servo Platform: Pan: 360°×n; Tile: -120°~+90°
Stabilization Accuracy: ≤0.05mrad(1σ)
Maximum Angular Velocity: 60°/s
Dimension: 260×260×372mm³; weight≤20Kg



UD280T (IR1280)

Axis: two
Resolution: VL: 1920×1080, 30x, 64°×36°~2.3°×1.3°; IR imager: 1280×1024, 5x, 28.7°×23.2°~5.9°×4.7°; LRF: ≥6km
Servo Platform: Pan: 360°×n; Tile: -110°~+90°
Stabilization Accuracy: ≤0.1mrad(1σ)
Maximum Angular Velocity: 90°/s
Dimension: 280×280×465mm³; ≤19Kg



UD290T

Axis: two
Resolution: VL: 1920×1080, 15x, 21.7°×17.46°~3.66°×2.93°; IR imager: 640×512, 6x, 21.7°×17.46°~3.66°×2.93°; LRF: ≥8km & LIM: ≥6km
Servo Platform: Pan: 360°×n; Tile: -20°~+90°
Stabilization Accuracy: ≤0.05mrad(1σ)
Maximum Angular Velocity: 60°/s
Dimension: 290×290×401mm³; ≤16.5Kg

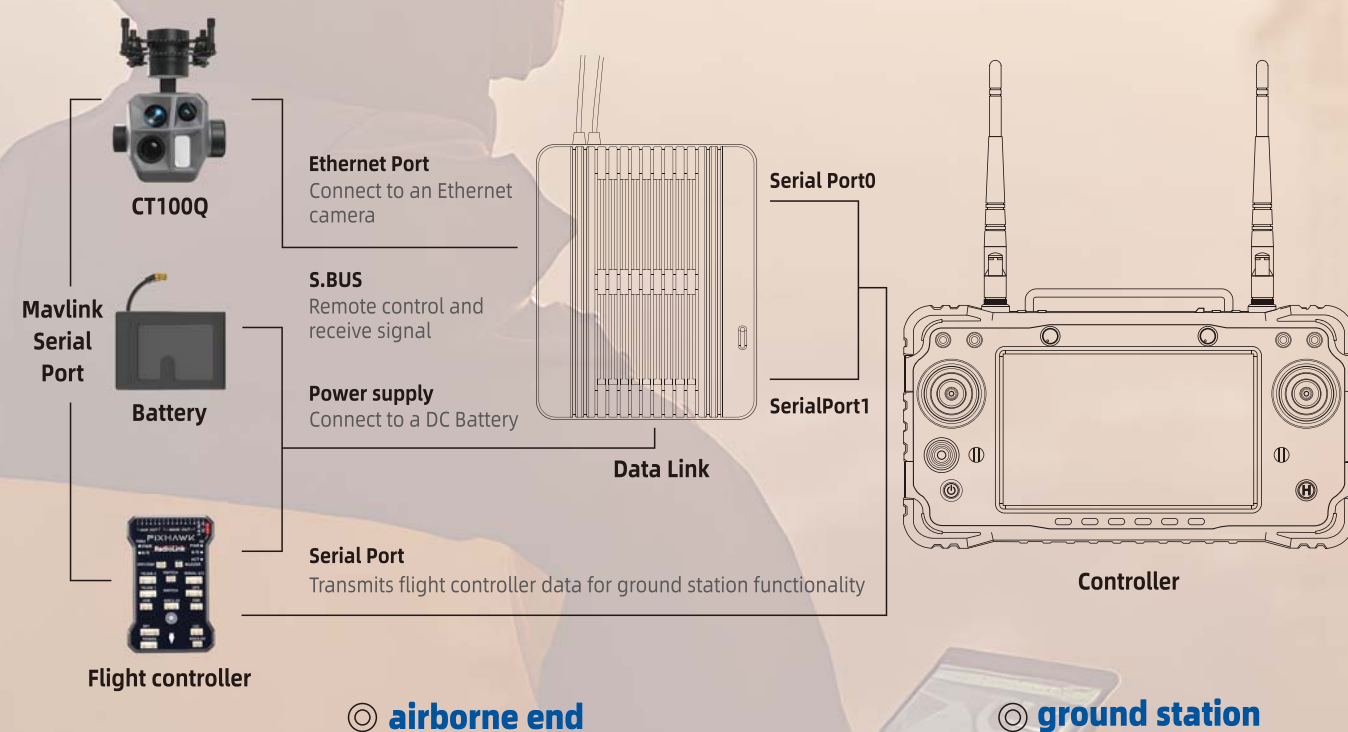


DRONE INTEGRATION



Integrated Drone System Solution

Open-source agility meets rugged reliability, empowering next-gen UAV operations.



Payload Gimbal

High-precision, mission-ready payload platform with modular design. Plug-and-play compatibility for rapid deployment across diverse scenarios.

PX4 Open-Source Flight Controller

Fully customizable autopilot system with open-source protocol support. Agile development and adaptability for tailored mission profiles.

Ground Station

Advanced interface for real-time telemetry, control, and data visualization. Seamless integration with optional data links for extended operational range.

Flexible Data Link Options

Choose from multiple data link solutions to match mission demands.

Scalable & Reliable Architecture

Modular components enable easy upgrades and system expansion.