SKYPATH

To be the global leader as a premium electro-optical systems provider

SKYPATH

SKYPATH PODS FAMILY

Pods Series

Micro-series Pods：
SD65D/SD70D/SD70T/
SD80D/SNT100Q

Compact Loitering Munition、Small Multirotor UAV

Small-series Pods：
SD100T/SD100TP/
SD100TP-10X/SD80DX

Tactical Loitering Munition、Medium Multirotor UAV、
Fixed-wing/Compound-wing UAV

Medium-series Pods：
SD130D/SD130T/SD130TP
/SD155T/SD170T

Strategic Loitering Munition、Large Multirotor UAV、
Medium-Large Fixed-wing/Compound-wing UAV

R&D / Manufacturing

SKYPATH

EO/IR Pod Development & Manufacturing Facility






Micro-series 2/3-axis Pods

250g-400g Series

This series of pods weighs between 250g to 400g, with diameter options ranging from 65mm to 100mm. Featuring configurable EO/IR/LRF payloads, they provide onboard capabilities including image acquisition, manual interception, auto-tracking, and manual tracking. The three-axis high-stability platform framework integrates recognition, tracking, inertial stabilization, and lock-on functions, delivering professional and reliable operational support for industrial drones in inspection, security surveillance, emergency rescue, and search missions.

Key Features

- **Panoramic Vision, Target Insight**
  Equipped with various EO/IR/LRF payloads, providing 24/7 stable and clear imaging
- **Omnidirectional Reliability**
  High-precision inertial stabilized platform enables 360° continuous obstruction-free rotation
- **Automatic Target Recognition & Tracking**
  Standard target auto-identification; dual-optical tracking with real-time video transmission of tracking frame data
- **Military-Grade Environmental Adaptability**
  Military alloy components, industrial-grade devices, compatible with various harsh industrial application environments
- **Compact Size, Light Weight, High Performance**
  Precision opto-mechatronic integrated design, smaller, lighter, and more powerful than same-category products
- **Rich Interfaces, Strong Compatibility**
  Communication supports RS422, RS232, S.BUS networks and Mavlink protocol; video supports synchronized 422 and network transmission

01

Micro-series Pods

SKYPATH

SD65D (65mm 2-axis/EO/IR)

System Parameters

Dimensions：65×72×88mm

Weight：≤240g

Voltage ： 18V~32VDC

Consumption：Stable Power Consumption ≤20W，

Peak Power Consumption ≤40W

Working temperature：-40℃ ~55℃

Servo Platform

Rotation range：Pan：-110° ~+110°

Tilt： -85° ~+25°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥20°/s，

Pitch≥20°/s

Visible light camera

Resolution：1920×1080

Lens：12mm

FOV：26°×15°

Detection range：1.5km

Recognition range：1.0km

Infrared thermal imager

Resolution ： 640×512

Lens：19mm

Pixel size：12μm

FOV：23°×18°

Detection range ： 1.0km

Recognition range ： 0.5km

01

Micro-series Pods

SKYPATH

SD70D (70mm 2-axis/EO/IR)

System Parameters

Dimensions： 70×73×92.2mm

Weight： ≤250g

Voltage：14V~28VDC

Consumption：Stable Power Consumption ≤12W，Peak Power Consumption ≤20W

Working temperature： -40℃ ~55℃

Servo Platform

Rotation range：Pan： -90° ~+90°

Tilt： -90° ~+30°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥50°/s，Pitch≥50°/s

Visible light camera

Resolution： 2560×1440

Lens： 16mm

FOV： 26.1°×14.9°

Detection range： People2.5km/Vehicle9.5km

Recognition range：

People0.32km/Vehicle1.2km

Infrared thermal imager

Resolution： 640×512

Lens：25mm

Pixel size： 12μm

FOV：17.5°×13.1°

Detection range： People1km/Vehicle2.4km

Recognition range： People0.33km/Vehicle0.8km

01

Micro-series Pods

SKYPATH

SD70T (70mm 2-axis/EO/IR/WA-EO)

System Parameters

Dimensions： 70×73×93mm

Weight： ≤250g

Voltage： 12V~32VDC

Consumption：Stable Power Consumption ≤12W，Peak Power Consumption ≤20W

Working temperature： -20℃ ~55℃

Servo Platform

Rotation range：Pan： -90° ~+90°

Tilt： -90° ~+30°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥50°/s，Pitch≥50°/s

Visible light camera

Resolution： 2560×1440

Lens： 16mm

FOV：26.1°×14.9°

Detection range： People2.5km/Vehicle9.5km

Recognition range： People0.32km/Vehicle1.2km

Infrared thermal imager

Resolution： 640×512

Lens：25mm

Pixel size： 12μm

FOV：17.5°×13.1°

Detection range： People1km/Vehicle2.4km

Recognition range： People0.33km/Vehicle0.8km

Wide-angle Visible light camera

Resolution： 2560×1440

Lens：4.45mm

FOV：79.7°×50.3°

01

Micro-series Pods

SKYPATH

SD80D (80mm 2-axis/EO/IR)

System Parameters

Dimensions： 80×86×110mm

Weight： ≤360g

Voltage： 18V~32VDC

Consumption：Stable Power Consumption ≤20W，Peak Power Consumption ≤60W

Working temperature： -40℃ ~55℃

Servo Platform

Rotation range：Pan：-110° ~+110°

Tilt： -85° ~+25°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥20°/s，Pitch≥20°/s

Visible light camera

Resolution： 3840×2160

Lens：16mm

FOV：26°×15°

Detection range： 2.0km

Recognition range： 1.0km

Infrared thermal imager

Resolution： 640×512

Lens：19mm

Pixel size： 12μm

FOV：17.4°×14°

Detection range： 1.3km

Recognition range： 0.7km

01

Micro-series Pods

SKYPATH

SNT100Q （100mm 3-axis/EO/IR/LRF/WA-EO ）

System Parameters

Dimensions： 90×105×124mm

Weight： ≤380g

Voltage： 12VDC

Consumption：Stable Power Consumption

≤12W， Peak current ≤10A

Working temperature： -20℃ ~55℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt： -130° ~+90°

Roll： -60° ~+60°

Angular position accuracy：≤0.3°

Stabilization accuracy：≤0.1mrad

Maximum angular velocity：Azimuth≥60°/s，Pitch≥60°/s

Visible light camera

Resolution： 4800W

Lens：15~50mm

FOV：29°×23.5°~9°×7°

Detection range：

People0.7km/Vehicle2.6km

Recognition range：

People90m/Vehicle0.34km

Infrared thermal imager

Resolution： 640×512

Lens： 19mm

Pixel size： 12μm

FOV：22.8°×18.4°

Detection range： People1km/Vehicle2.4km

Recognition range： People0.33km/Vehicle0.8km

Laser rangefinder

Ranging accuracy：5m~1.2km

Ranging accuracy：≤1m

Ranging frequency：1Hz

Wide-angle Visible light camera

Resolution： 4800W

Lens： 4.49mm

FOV：83°×53°

Small-series 2/3-axis Pods

500g-1kg Series

This series of pods weighs between 500g to 1kg, with diameter options ranging from 80mm to 100mm. Featuring configurable EO/IR/LRF payloads, they provide onboard capabilities including image acquisition, manual interception, auto-tracking, and manual tracking. The three-axis high-stability platform framework integrates recognition, tracking, inertial stabilization, and lock-on functions, delivering professional and reliable operational support for industrial drones in inspection, security surveillance, emergency rescue, and search missions.

Key Features

- **Panoramic Vision, Target Insight**
  Equipped with various EO/IR/LRF payloads, providing 24/7 stable and clear imaging
- **Omnidirectional Reliability**
  High-precision inertial stabilized platform enables 360° continuous obstruction-free rotation
- **Automatic Target Recognition & Tracking**
  Standard target auto-identification; dual-optical tracking with real-time video transmission of tracking frame data
- **Military-Grade Environmental Adaptability**
  Military alloy components, industrial-grade devices, compatible with various harsh industrial application environments
- **Compact Size, Light Weight, High Performance**
  Precision opto-mechatronic integrated design, smaller, lighter, and more powerful than same-category products
- **Rich Interfaces, Strong Compatibility**
  Communication supports RS422, RS232, S.BUS networks and Mavlink protocol; video supports synchronized 422 and network transmission

Small-series Pods

SKYPATH

SD100T (100mm 2-axis/EO/IR/LRF)

System Parameters

Dimensions： 105×91.4×148.4mm

Weight： ≤600g

Voltage： 12V~32VDC

Consumption：Stable Power Consumption

≤30W， Peak current ≤5A

Working temperature： -40℃ ~55℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt：-110° ~+45°

Roll：-40° ~+40°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥50°/s，Pitch≥50°/s

Visible light camera

Resolution： 1920×1080

Lens： 4.8~48mm

FOV： 60.2°×33.9°

Detection range： People7.6km/Vehicle28km

Recognition range： People0.95km/Vehicle3.5km

Infrared thermal imager

Resolution： 640×512

Lens： 25mm

Pixel size： 12μm

FOV： 17.5°×13.1°

Detection range： People1km/Vehicle2.4km

Recognition range： People0.33km/Vehicle2.8km

Laser rangefinder

Ranging accuracy：5m~1.2km

Ranging accuracy：≤1m

Ranging frequency：1Hz

Small-series Pods

SKYPATH

SD100TP (100mm 2-axis/EO/IR/LRF)

System Parameters

Dimensions： 100×100×135mm

Weight： ≤650g

Voltage： 18V~32VDC

Consumption：Stable Power Consumption ≤20W，Peak Power Consumption ≤70W

Working temperature： -40℃ ~55℃

Servo Platform

Rotation range：Pan：-110° ~+110°

Tilt： -85° ~+20°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥20°/s，Pitch≥20°/s

Visible light camera

Resolution： 3840×2160

Lens： 16mm

FOV：26°×15°

Detection range： 3.0km

Recognition range： 1.5km

Infrared thermal imager

Resolution： 640×512

Lens： 25mm

Pixel size： 12μm

FOV：10.7°×8.5°

Detection range： 1.5km

Recognition range： 1.0km

Laser rangefinder

Ranging accuracy：5m~1.5km

Ranging accuracy：≤2m

Ranging frequency：1Hz

Small-series Pods

SKYPATH

SD100TP-10X (100mm 3-axis/EO/IR/LRF)

System Parameters

Dimensions： 100×132×148mm

Weight： ≤720g

Voltage： 12V~32VDC

Consumption：Stable Power Consumption

≤30W， Peak current ≤5A

Working temperature： -20℃ ~60℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt： -110° ~+35°

Roll： -50° ~+50°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.2mrad

Maximum angular velocity：Azimuth≥50°/s，Pitch≥50°/s

Visible light camera

Resolution： 1920×1080

Lens： 5~50mm

FOV： 54°~4.9°

Zoom：10X optical + 32X digital

Detection range： 3.0km

Recognition range： 1.5km

Infrared thermal imager

Resolution： 640×512

Lens： 25mm

Pixel size： 12μm

FOV： 17°×14°

Detection range： 1.5km

Recognition range： 1.0km

Laser rangefinder

Ranging accuracy：5m~2km

Ranging accuracy：≤2m

Ranging frequency：1Hz

02

Small-series Pods

SKYPATH

SD80DX (80mm Horizontal/EO/IR)

System Parameters

Dimensions： φ80×107mm

Weight： ≤450g

Voltage： 18V~32VDC

Consumption：Stable Power Consumption ≤20W，Peak Power Consumption ≤60W

Working temperature： -40℃ ~55℃

Servo Platform

Rotation range：Pan： -90° ~+90°

Tilt： -90° ~+20°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥20°/s，Pitch≥20°/s

Visible light camera

Resolution： 3840×2160

Lens： 16mm

FOV： 26°×15°

Detection range： 2.0km

Recognition range： 1.0km

Infrared thermal imager

Resolution： 640×512

Lens： 25mm

Pixel size： 12μm

FOV： 23°×18°

Detection range： 1.3km

Recognition range： 0.6km

Medium-series 2/3-axis Pods

≥1kg Series

This series of pods weighs > 1kg, with diameter options ranging from 130mm to 170mm. Featuring configurable EO/IR/LRF payloads, they provide onboard capabilities including image acquisition, manual interception, auto-tracking, and manual tracking. The three-axis high-stability platform framework integrates recognition, tracking, inertial stabilization, and lock-on functions, delivering professional and reliable operational support for industrial drones in inspection, security surveillance, emergency rescue, and search missions.

Key Features

- **Panoramic Vision, Target Insight**
  Equipped with various EO/IR/LRF payloads, providing 24/7 stable and clear imaging
- **Omnidirectional Reliability**
  High-precision inertial stabilized platform enables 360° continuous obstruction-free rotation
- **Automatic Target Recognition & Tracking**
  Standard target auto-identification; dual-optical tracking with real-time video transmission of tracking frame data
- **Military-Grade Environmental Adaptability**
  Military alloy components, industrial-grade devices, compatible with various harsh industrial application environments
- **Compact Size, Light Weight, High Performance**
  Precision opto-mechatronic integrated design, smaller, lighter, and more powerful than same-category products
- **Rich Interfaces, Strong Compatibility**
  Communication supports RS422, RS232, S.BUS networks and Mavlink protocol; video supports synchronized 422 and network transmission

Medium-series Pods

SKYPATH

SD130D (130mm 2-axis/EO/IR)

System Parameters

Dimensions： 130×153×212mm

Weight： ≤1kg

Voltage： 12V~32VDC

Consumption：Stable Power Consumption ≤30W， Peak current ≤5A

Working temperature： -20℃ ~55℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt： -125° ~+90°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥20°/s，Pitch≥20°/s

Visible light camera

Resolution： 1920×1080

Lens： 4.8~158mm

FOV： 58.9°×33.1°

Detection range： People25km/Vehicle94km

Recognition range： People3km/Vehicle11km

Infrared thermal imager

Resolution： 640×512

Lens： 35mm

Pixel size： 12μm

FOV： 12.5°×10°

Detection range： People1.4km/Vehicle3.3km

Recognition range： People0.46km/Vehicle1.1km

Medium-series Pods

SKYPATH

SD130T (130mm 2-axis/EO/IR/LRF)

System Parameters

Dimensions： 130×153×212mm

Weight： ≤1.1kg

Voltage： 12V~32VDC

Consumption：Stable Power Consumption

≤30W， Peak current ≤5A

Working temperature： -20℃ ~55℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt： -110° ~+90°

Roll： -40° ~+40°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.2mrad

Maximum angular velocity：Azimuth≥50°/s，Pitch≥50°/s

Visible light camera

Resolution： 1920×1080

Lens： 4.8~158mm

FOV： 58.9°×33.1°

Detection range： People25km/Vehicle94km

Recognition range： People3km/Vehicle 11km

Infrared thermal imager

Resolution： 640×512

Lens： 35mm

Pixel size： 12μm

FOV： 12.5°×10°

Detection range： People1.4km/Vehicle3.3km

Recognition range： People0.46km/Vehicle1.1km

Laser rangefinder

Ranging accuracy：20m~3km

Ranging accuracy：≤2m

Ranging frequency：1Hz

Medium-series Pods

SKYPATH

SD130TP (130mm 3-axis/EO/IR/LRF)

System Parameters

Dimensions： φ130×190mm

Weight： ≤1.2kg

Voltage： 18V~32VDC

Consumption：Stable Power Consumption

≤30W， Peak current ≤5A

Working temperature： -20℃ ~55℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt： -115° ~+90°

Roll： -40° ~+40°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥50°/s，Pitch≥50°/s

Visible light camera

Resolution： 1920×1080

Lens： 4.3~129mm

FOV： 63.7°×35.8°

Zoom： 30X optical + 4X digital

Detection range： People3km/Vehicle9km

Recognition range： People1.5km/Vehicle4.7km

Infrared thermal imager

Resolution： 640×512

Lens： 40mm

Pixel size： 12μm

FOV： 10°×8°

Detection range： People0.5km/Vehicle1.3km

Recognition range： People0.18km/Vehicle1km

Laser rangefinder

Ranging accuracy：5m ~ 1.5km

Ranging accuracy：≤2m

Ranging frequency：1 ~ 10Hz

Medium-series Pods

SKYPATH

SD155T (155mm 2-axis/EO/IR/LRF)

System Parameters

Dimensions： 155×165×208mm

Weight： ≤2kg

Voltage： 20V~32VDC

Consumption：Stable Power Consumption ≤30W， Peak current ≤5A

Working temperature： -20℃ ~60℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt： -115° ~+90°

Angular position accuracy：≤0.2°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥60°/s，Pitch≥60°/s

Visible light camera

Resolution： 1920×1080

Lens： 4.3~129mm

FOV： 63.7°×35.8°

Detection range： People20km/Vehicle25km

Recognition range： People2.5km/Vehicle6.4km

Infrared thermal imager

Resolution： 640×512

Lens： 60mm

Pixel size： 12μm

FOV： 7.32°×5.86°

Detection range： People2.4km/Vehicle5.7km

Recognition range： People0.8km/Vehicle1.9km

Laser rangefinder

Ranging accuracy：20m ~ 3km

Ranging accuracy：≤2m

Ranging frequency：1 ~ 5Hz

Medium-series Pods

SKYPATH

SD170T (170mm 2-axis/EO/IR/LRF)

System Parameters

Dimensions： φ170×221mm

Weight： ≤2.55kg

Voltage： 20V~28VDC

Consumption：Stable Power Consumption ≤20W，Peak Power Consumption ≤90W

Working temperature： -20℃ ~55℃

Servo Platform

Rotation range：Pan： 360°×n（360° rotation）

Tilt： -110° ~+10°

Angular position accuracy：≤0.3°

Stabilization accuracy： ≤0.1mrad

Maximum angular velocity：Azimuth≥60°/s，Pitch≥60°/s

Visible light camera

Resolution： 1920×1080

Lens： 4.9~147mm

Zoom：30X optical

Detection range： People6km/Vehicle15km

Recognition range： People2km/Vehicle8km

Infrared thermal imager

Resolution： 640×512

Lens： 63mm

Pixel size： 12μm

FOV： 6.9°×5.5°

Detection range： People1.4km/Vehicle8.4km

Recognition range： People0.35km/Vehicle2.1km

Laser rangefinder

Ranging accuracy：5km

Ranging accuracy：≤2m

Ranging frequency：1Hz

THANK YOU