

PRODUCT CATALOG



Auvergne-
Rhône-Alpes

20
26



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ABOUT MERIO

Merio is a French designer and manufacturer of advanced gimbal systems, delivering cutting-edge observation solutions for demanding defense and security applications. Trusted by armed forces worldwide, including the French Army, our battlefield-proven products combine high-performance electro-optics, embedded intelligence, and robust design.

With a comprehensive portfolio ranging from compact aerial and marine gimbals to complete control stations and software suites, Merio provides fully integrated solutions tailored to mission-critical environments. Our commitment to innovation and reliability ensures that every system meets the highest operational requirements in surveillance, navigation, and intelligence.

NEW FAMILY



Milvus

2026 PORTFOLIO

AERIAL GIMBALS



MILVUS 7

265 G

AERIAL

EO

IR

DRI 10KM



This new gimbal offers a high-performance solution for aerial platforms. The Milvus 7 is the most compact in the range, with a diameter of only 7 cm and an ultra-lightweight design of just 265 grams. It integrates both a day camera and a thermal camera, making it ideal for surveillance or ISR missions.

NEW



MILVUS 7S

Height : 114mm (4,5'')

Weight : 265g (0,6lb)

Diameter : 70mm (2,8'')

SENSORS :

- EO : Full HD (1920x1080) x160 zoom (x10 optical + x16 digital)
- LWIR : Uncooled VGA (640x480)
- LP : Optional, Class 3B, 840nm



MILVUS 10

650 G

AERIAL

EO

IR

LRF

LP

DRI 10KM



The Milvus 10M is a compact, gyro-stabilized turret with a 10 cm diameter, weighing approximately 650 grams. It features a Full HD day camera with x160 zoom and a 640×480 LWIR infrared camera.



MILVUS 10M

Height : 144mm (5,7'')

Weight : 650g (1,4lb)

Diameter : 100mm (3,9'')

SENSORS :

- EO : Full HD (1920x1080) x160 zoom (x10 optical + x16 digital)
- LWIR: VGA (640x480)
- LRF: Optional, Class 1 (Eye Safe), 4,5km range
- LP : Optional, Class 3B, 840nm



MILVUS 14

1,9KG

AERIAL

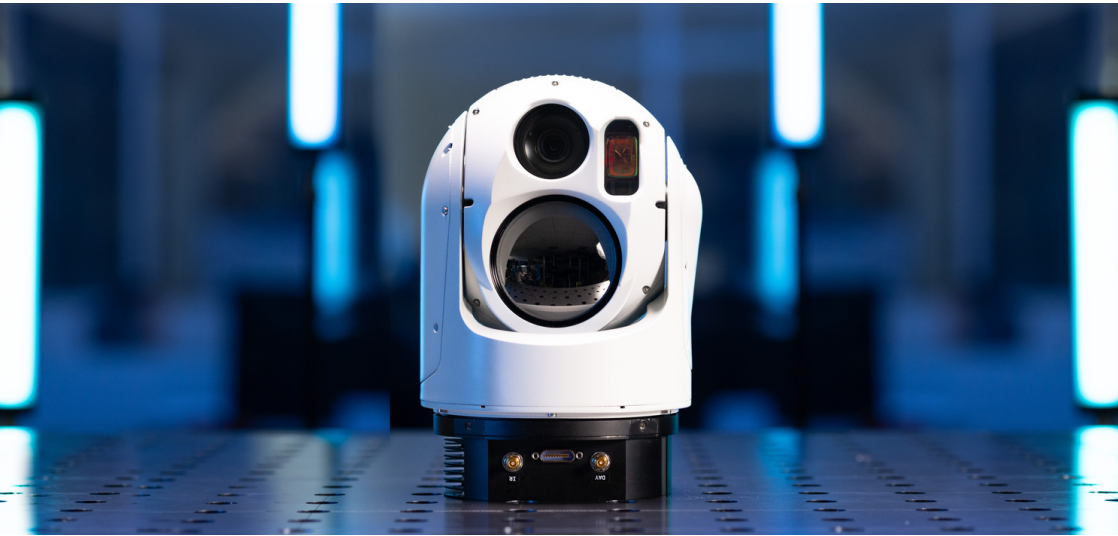
EO

IR

LRF

LP

DRI 20KM



The Milvus 14 is a gimbal with a 14 cm diameter and a weight of less than 2 kg. It features a Full HD day camera with x360 zoom and a 640×480 LWIR infrared camera with x40 zoom. It also integrates a laser rangefinder (LRF) and a laser pointer (LP), making it a complete solution for missions requiring both detection and designation.



MILVUS 14Z

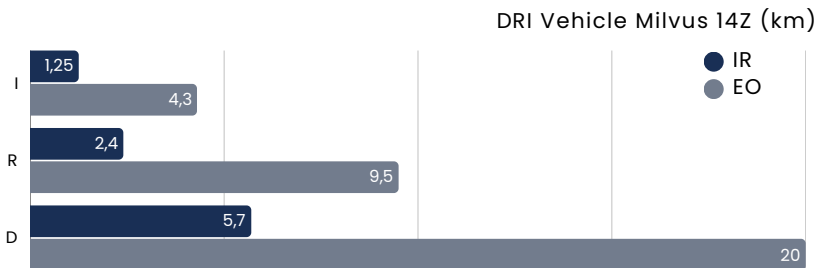
Height : 218mm (8,6'')

Weight : 1,9kg (4,2lb)

Diameter : 140mm (5,5'')

SENSORS :

- EO: Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
- LWIR: VGA (640×480) x40 zoom (x5 optical + x8 digital)
- LRF: Optional, Class 1 (Eye-Safe), 12 km range
- LP: Optional, Class 3B, 840nm

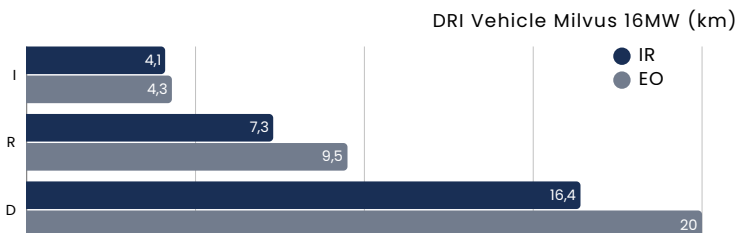


MILVUS 16

2,5KG AERIAL EO LRF LP IR LTD DRI 20KM



The Milvus 16 is available in two models: the Milvus 16MW, equipped with a cooled MWIR thermal camera, and the Milvus 16D, featuring a laser designation function.





MILVUS 16MW

Height : 235mm (9,2'')

Weight : 3,0kg (6,6lb)

Diameter : 160mm (6,3'')

SENSORS :

- EO : Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
- MWIR: Cooled VGA (640×512) x120 zoom (x15 optical + x8 digital)
- LRF: Optional, Class 1 (Eye-Safe), 12 km range
- LP: Optional, Class 3B, 340nm



MILVUS 16D

Height : 235mm (9,2'')

Weight : 2,5kg (5,5lb)

Diameter : 160mm (6,3'')

SENSORS :

- EO : Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
- LWIR: SXGA (1280×1024)
- Laser Target Designator : >50 mJ, STANAG 3733-compliant
- LRF: Class 1 (Eye-Safe), 12 km range

MILVUS 25

6,0KG

AERIAL

EO

LRF

LP

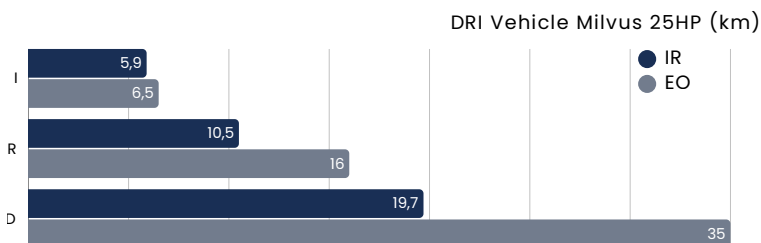
IR

LTD

DRI 35KM



The Milvus 25 comes in four models, each offering different levels of optronic performance, with the Milvus 25D featuring a laser designation function.





All Milvus 25 variants share the same footprint for easy integration —**329,5 mm height (12,9")** and **250 mm diameter (9.8")**—regardless of sensor configuration. Options include an integrated **Laser Range Finder (LRF)** with 15 km range and a **Laser Pointer (LP)** at 830 nm.

MILVUS 25S

WEIGHT 6,0KG (13,2LB)

- EO : Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
 - MWIR: Cooled VGA (640×512) x120 zoom (x15 optical + x8 digital)
 - Daytime vehicle detection: 20 km
-

MILVUS 25HP

WEIGHT 6,3KG (13,9LB)

- EO : Full HD (1920×1080) x1.760 zoom (x55 optical + x32 digital)
 - MWIR: Cooled VGA (640×512) x200 zoom (x25 optical + x8 digital)
 - Daytime vehicle detection: 35 km
-

MILVUS 25HD

WEIGHT 6,5KG (14,3LB)

- EO : Full HD (1920×1080) x1.760 zoom (x55 optical + x32 digital)
 - MWIR: Cooled VGA (640×512) x160 zoom (x20 optical + x8 digital)
 - Daytime vehicle detection: 35 km
-

MILVUS 25D

WEIGHT 7KG (15,4LB)

- EO : Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
- MWIR: Cooled VGA (640×512) x120 zoom (x15 optical + x8 digital)
- LTD : >50mJ STANAG 3733
- Daytime vehicle detection: 20 km

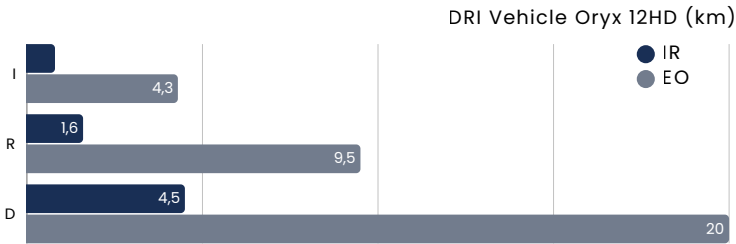
LAND GIMBALS



Oryx

2026 PORTFOLIO

The Oryx 25 feature a **height of 329,5 mm (12,9")** and a **diameter of 250 mm (9,8")**, while the Oryx 12 models offer a more compact design with a **height of 197 mm (7,8")** and a **diameter of 127 mm (5,0")**. All Oryx systems are equipped with a **Class 1 LRF** laser (detection range of 12 to 15 km), as well as an optional **Class 3B LP** laser (830 – 850nm).





ORYX 12

ORYX 12S

WEIGHT 2,2KG (4,4LB)

- EO : Full HD (1920×1080) with x360 zoom (x30 optical + x12 digital)
 - LWIR: uncooled VGA (640×480) with x8 digital zoom
 - Daytime vehicle detection: 20 km
-

ORYX 12HD

WEIGHT 2,2KG (4,8LB)

- EO : Full HD (1920×1080) with x360 zoom (x30 optical + x12 digital)
 - LWIR: uncooled SXGA (1280x1024) with x8 digital zoom
 - Daytime vehicle detection: 20 km
-

ORYX 25S

WEIGHT 7,0KG (15,4LB)

- EO : Full HD (1920×1080) with x360 zoom (x30 optical + x12 digital)
 - MWIR: cooled VGA (640×512) with x120 (x15 optical + x8 digital)
 - Daytime vehicle detection: 20 km
-

ORYX 25HP

WEIGHT 7,3KG (16,1LB)

- EO : Full HD (1920×1080) with x1760 zoom (x55 optical + x32 digital)
- MWIR: cooled VGA (640×512) with x200 (x25 optical + x8 digital)
- Daytime vehicle detection: 35 km

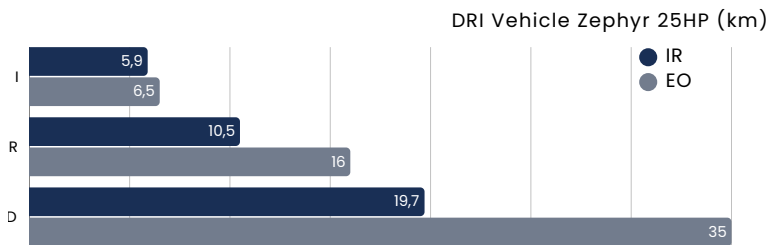
MARITIME GIMBALS



Zephyr

2026 PORTFOLIO

The Zephyr 25 feature a **height of 325 mm (12,8")** and a **diameter of 250 mm (9,8")**, while the Zephyr 12 models offer a more compact design with a **height of 200 mm (7,8")** and a **diameter of 120 mm (4,7")**. All Zephyr systems are equipped with a **Class 1 LRF** laser (detection range of 12 to 15 km), as well as an optional **Class 3B LP** laser (830 nm).





ZEPHYR 25

ZEPHYR 12S

WEIGHT 1,5KG (3,3LB)

- EO : Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
 - LWIR: Uncooled VGA (640×480) x8 digital zoom
 - Daytime vehicle detection: 20 km
-

ZEPHYR 12HP

WEIGHT 2KG (4,4LB)

- EO : Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
 - LWIR: Uncooled SXGA (1280x1024) x8 digital zoom
 - Daytime vehicle detection: 20 km
-

ZEPHYR 25S

WEIGHT 5,5KG (12,1LB)

- EO : Full HD (1920×1080) x360 zoom (x30 optical + x12 digital)
 - MWIR: Cooled VGA (640×512) x120 zoom (x15 optical + x8 digital)
 - Daytime vehicle detection: 20 km
-

ZEPHYR 25HP

WEIGHT 6,3KG (13,9LB)

- EO : Full HD (1920×1080) x1.760 zoom (x55 optical + x32 digital)
- MWIR: Cooled VGA (640×512) x200 zoom (x25 optical + x8 digital)
- Daytime vehicle detection: 35 km

EMBEDDED INTELLIGENCE



Vision.AI



Vision.AI is our range of embedded video-processing solutions, designed to adapt to a wide variety of needs. Natively integrated into our optronic systems, it optimizes image quality, bandwidth, and operational efficiency.

VisionMax

Here are Vision Max’s core capabilities for Merio gimbals:

 Input Video acquisition	 Stabilization Digital, 3rd axis	 Embedded AI Detection & classification	 Tracking Tracking & Follow Me, Geotracking	 Output H.264 / H.265 stream
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STANDARD

107x70x45mm - 210gr



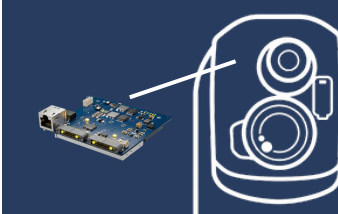
LIGHT CASING

78x57x31mm - 140gr



OEM

55x40x20mm - 80gr
Integrated



VisionNano

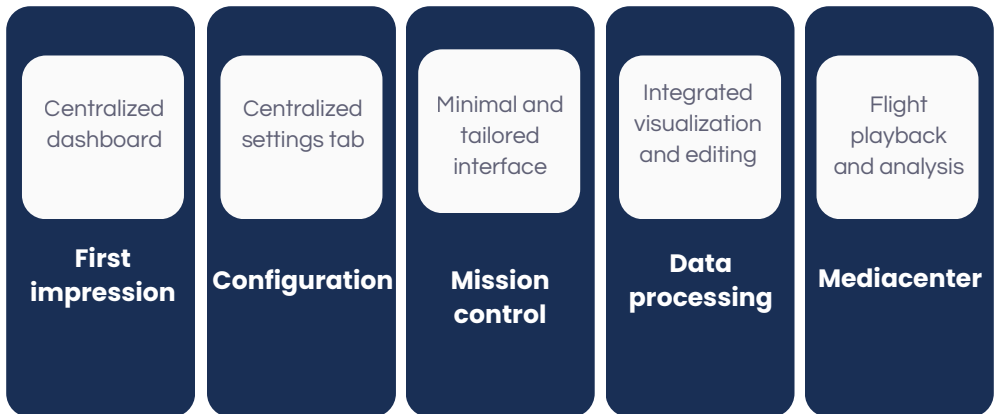


VisionNano is a compact embedded module that supports **H.264/H.265 encoding, digital stabilization, and tracking / follow-me** functions, all compliant with **STANAG 4609** standards.



VisionControl

VisionControl positions itself as a next-generation solution in the field of Ground Control Systems (GCS) for drones. Its philosophy is based on creating a unified, intuitive, and powerful user experience that covers the entire lifecycle of a drone mission.





NEW GROUND CONTROL STATION SOFTWARE

Interface features

- Simple, Dual or Picture-in-Picture video display (day/night camera).
- Camera controls – Direct access to zoom, focus, exposure, image stabilization, and thermal palette selection.
- Operational shortcuts – One-click actions to start video recording, enable object tracking, or activate AI-based detection.
- Integrated map.
- Distance and target coordinate calculation.

CONTACT



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