

Merio portfolio overview

French gimbals designer and manufacturer





Company mindset

MERIO is equipment provider for ground, aerial, naval platforms manufacturers in the military and civil sectors (drones, gyrocopters, aircrafts, helicopters, aerostats, ground vehicles, boats,...).

MERIO is offering complete observation systems including gimbal operator station.

MERIO main knowledge consist in **design and manufacturing** of gyro stabilised gimbals, based on the unique combination of a recognised expertise in **mechanical, electronics** and **embedded software** fields, as well as application oriented expertise.

Why choose Merio :

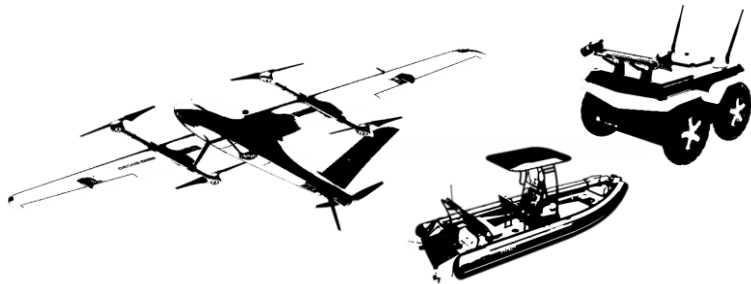
- An human scale innovative company
- Cutting-edge technology, 100% home design (electronics, mechanics, software)
- Products customization to suit your needs
- Responsiveness and customer oriented
- Available stock

made in 
France

Complete solution – Gimbal systems

Our company designs and manufactures **gimbal systems**.

We provide all the system: the gimbal, the intelligence (Viper + NavBox), the Ground Control Station and the Joytab.



GIMBAL



On-board



GPS SYSTEM

INTELLIGENCE



GCS
CONTROL STATION

SOFTWARE

Ground Control Station



JOYTAB



MILVUS

AERIAL TWO-ARMS GIMBALS
NEW 2024/25 PORTFOLIO

Aerial application - Milvus family



MLV Mini



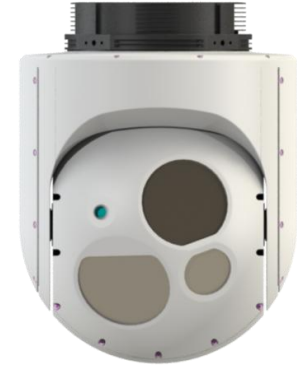
MLV10



MLV14



MLV16



MLV25

Lightweight – Modular design – Innovation inside – French technology

Milvus, compact and high performance range of aerial gimbals

Weight : from 200 gr to 5 kg

EO : FHD 1920x1080p up to x660 zoom (up to **x55 optical**)

IR : LWIR (NATO detection up to 8km) or MWIR (NATO detection **up to 20km**)

Options : LRF, Laser pointer, **Laser designator**, Intelligence

Milvus family – MLV_MINI

PHYSICAL

Weight	~240 gr (0,5 lb)
Height	~107 mm (4,2")
Max diameter	~70 mm (2,8")
Pan	360° (non continuous)
Tilt	-90 ° / +120°
Power / Voltage	Typ 10W – max 20W / 12-35VDC



SENSORS

Daylight camera

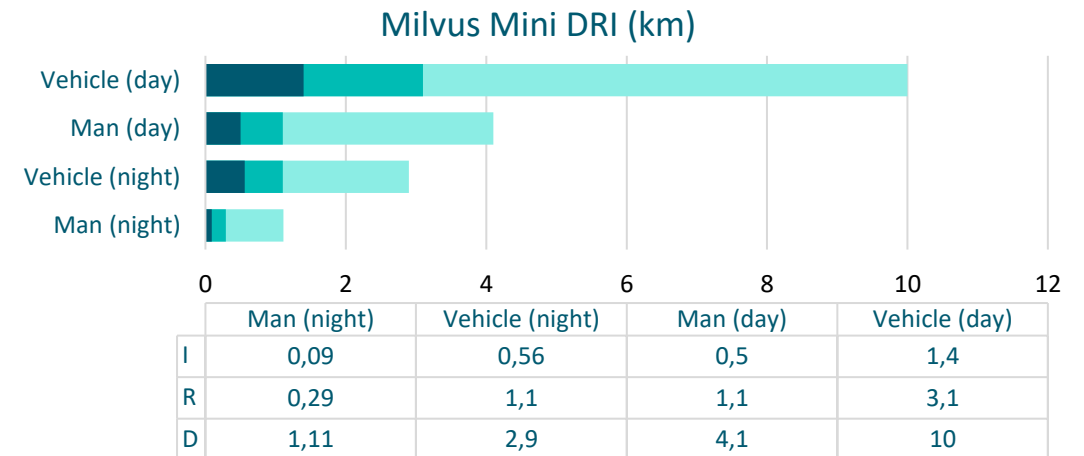
Resolution	Full HD (1920x1080) or HD (1280 x 720)
HFoV	Full HD : 59,2° (W) – 6,7° (N) – 0,4° (D) HD : 59,2° (W) – 4,5° (N) – 0,3° (D)
Min Illumination	0,025 lux
	Near-Infrared Cut Filter

Infrared camera

Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 12µm
Lens	35mm F#1.5
Zoom	x1 optical / x8 digital
HFoV	13° – 1,65° (D)

Others

LRF	No
Laser pointeur	No



The DRI's are indicative and are under no circumstances a performance commitment.

PRELIMINARY

Milvus family – MLV_10M

PHYSICAL

Weight	630 gr (1,3 lb)
Height	144 mm (5,7")
Max diameter	100 mm (3,9")
Pan	360°
Tilt	-90 ° / +120°
Power / Voltage	Typ 11W – max 30W / 12-35VDC



SENSORS

Daylight camera

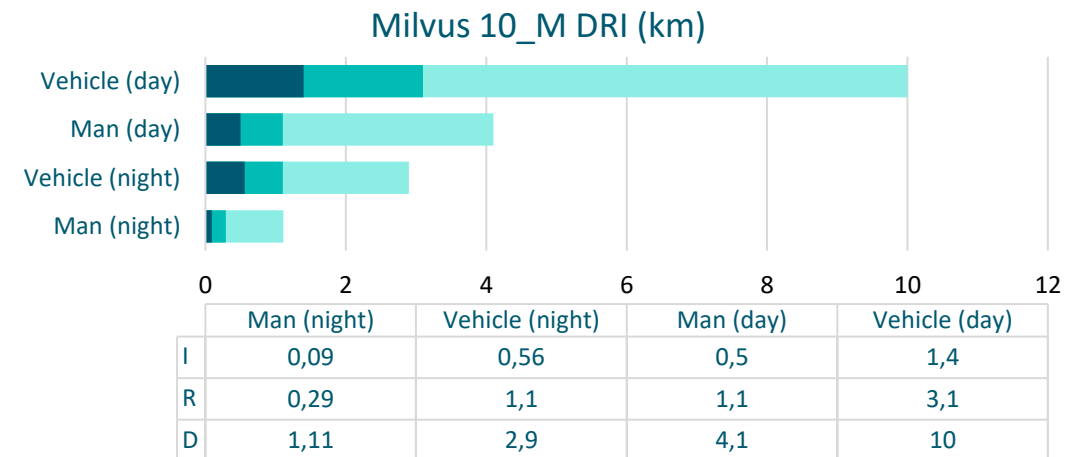
Resolution	Full HD (1920x1080)
Lens	3,3mm > 33,0 mm (F#1,8 > F#3,4)
Zoom	x10 optical / x16 digital
HFoV	59,2° > 6,7°

Infrared camera

Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 12µm
Lens	35mm F#1.5
Zoom	x1 optical / x8 digital
HFoV	13°

Others

LRF	Option
Laser pointeur	Option



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Milvus family – MLV_14Z

PHYSICAL

Weight	1,8kg (3,9 lb)
Height	215mm (8,5")
Diameter (op / stall)	140mm (5,5")
Pan	360°
Tilt	-90 ° / +120°
Power / Voltage	Typ 15W – max 40W / 22-30VDC

SENSORS

Daylight camera

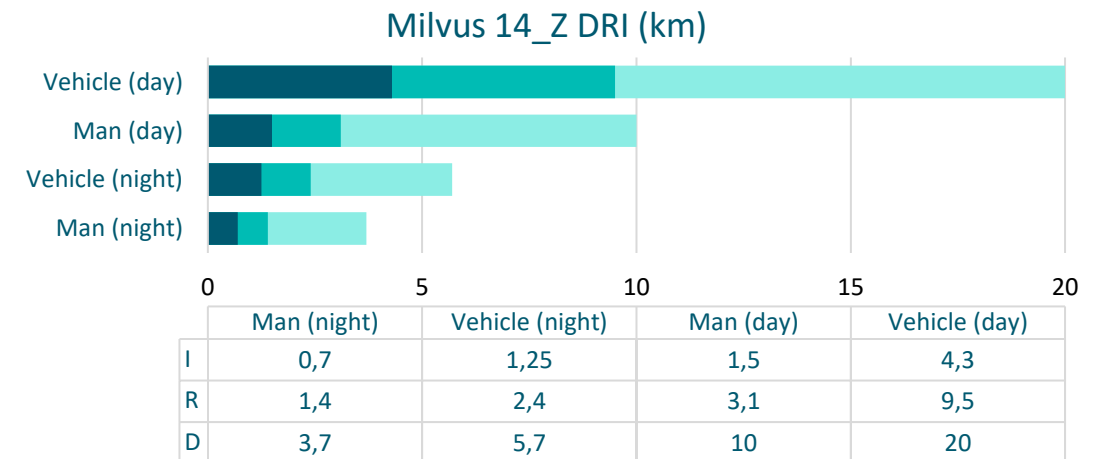
Resolution	Full HD (1920x1080)
Zoom	x30 optical / x12 digital
HFoV	63,7° > 2,3°

Infrared camera

Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 12µm
Lens	15mm > 75mm (F#1,2)
Zoom	x5 optical / x8 digital
HFoV	29,9° > 5,8°

Others

LRF	Class 1 / 1,5µm / 12km range
Laser pointeur	Class 3B / 850nm
Laser designator	No



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Milvus family – MLV_16MWIR

PHYSICAL

Weight	2,6kg (5,7 lb)
Height	232mm (9,1")
Diameter (op / stall)	160mm (6,3") / 170mm (6,7")
Pan	360°
Tilt	-90 ° / +120°
Power / Voltage	Typ 30W – max 100W / 22-30VDC

SENSORS

Daylight camera

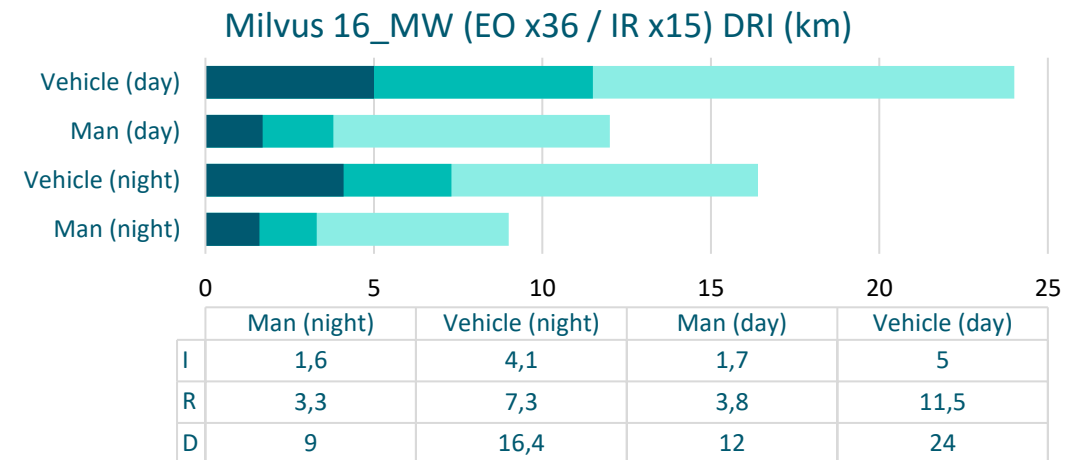
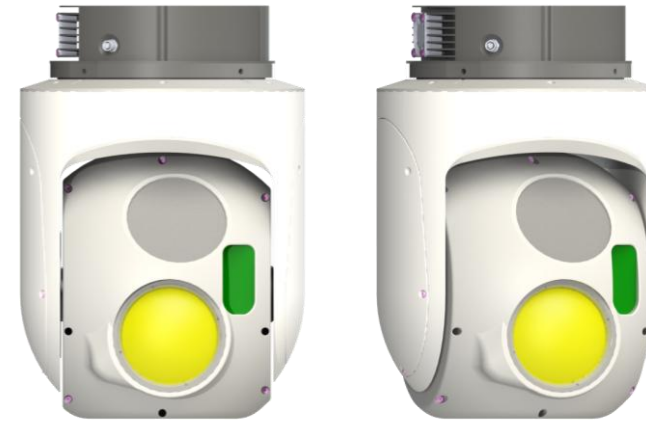
Resolution	Full HD (1920x1080)
Zoom	x30 optical / x12 digital <i>Optional : x36 optical / x32 digital</i>
HFoV	63,7° > 2,3° <i>Optional : 52,6° > 1,95°</i>

Infrared camera

Technology	Cooled MWIR
Resolution, pixel	VGA (640x512), 15µm
Lens	20mm > 275mm (F#5,5)
Zoom	x15 optical / x8 digital
HFoV	26,5° > 2,0°

Others

LRF	Class 1 / 1,5µm / 12km range
Laser pointeur	Class 3B / 850nm
Laser designator	No



The DRIs are indicative and are under no circumstances a performance commitment.

Milvus family – MLV_25S

PHYSICAL

Weight	5,5kg (12,1 lb)
Height	325mm (12,8")
Max diameter	250mm (9,8")
Pan	360°
Tilt	-90 ° / +120°
Power / Voltage	Typ 40W – max 250W / 22-30VDC

SENSORS

Daylight camera

Resolution	Full HD (1920x1080)
Zoom	x30 optical / x12 digital <i>Optional : x55 optical / x32 digital</i>
HFoV	63,7° > 2,3° <i>Optional : 62,1° > 1,29°</i>

Infrared camera

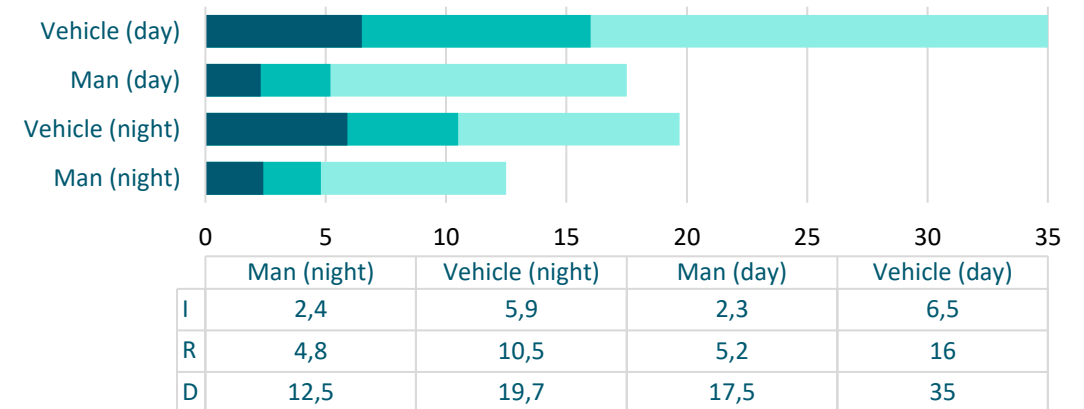
Technology	Cooled MWIR
Resolution, pixel	VGA (640x512), 15µm
Lens	20mm > 275mm (F#5,5)
Zoom	x15 optical / x8 digital <i>Optional : x25 optical / x8 digital</i>
HFoV	26,5° > 2,0° <i>Optional : 29,8° > 1,28°</i>

Others

LRF	Class 3B (optional 1) / 1,5µm / 15km range
Laser pointeur	Class 3B / 830nm
Laser designator	No



Milvus 25_S (EO x55 / IR x25) DRI (km)

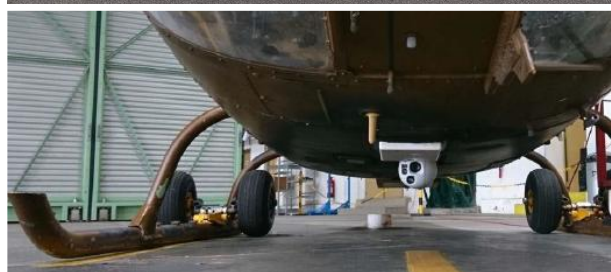


The DRIs are indicative and are under no circumstances a performance commitment.

Customer applications



Examples





Contact

Feel free to contact me !

Propulsion - Flight Control - Systems

UAV

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