

Merio company overview

French gimbals designer and manufacturer





Sommaire

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2. Our products portfolios : Temis, Milvus & Zephyr
3. Customer applications

Merio's project



Key informations



2014

Merio was
Founded



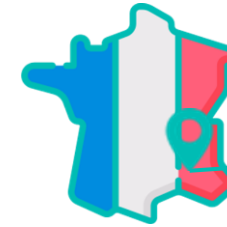
20+

Employees



Activity

60% products
40% projects



French
company



96 impasse de la Robe,
26130 Saint-Paul-Trois-Châteaux
France

Merio, high-technologies observation solutions for high-requirements sectors



Law enforcement



**Infrastructure
monitoring**



Border control



**Maritime
surveillance**



**Civil security, SAR,
reconnaissance**



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

Our products portfolio

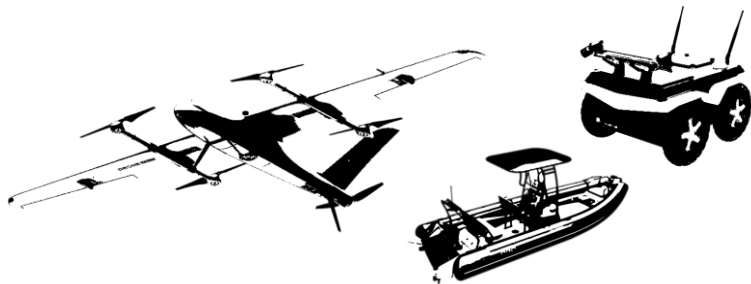




Complete solution – Gimbal systems

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



INTELLIGENCE



GPS SYSTEM



SOFTWARE



Ground Control Station



JOYTAB



TEMIS

AERIAL GIMBALS

Aerial application - Temis family



Lightweight – Modular design – Innovation inside – French technology

Temis, compact and high performance range of aerial gimbals

Weight : from 500gr to 6kg

EO : FHD 1920x1080p up to x480 zoom (up to x30 optical)

IR : LWIR (NATO detection up to 6,4km) or MWIR (NATO detection up to 15,5km)

Options : LRF, Laser pointer, Intelligence

Temis family – Compact

PHYSICAL

Weight	550 gr
Height	144 mm
Mini diameter	85 mm
Max diameter	100 mm
Pan	360°
Tilt	360°

SENSORS

Daylight camera

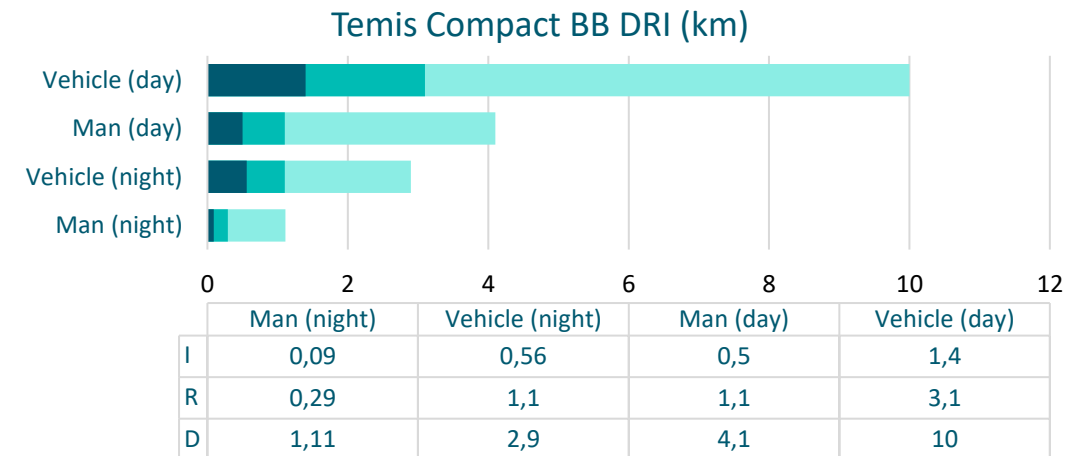
Resolution	Full HD (1920x1080)
Lens	3,3mm > 33,0 mm (F#1,8 > F#3,4)
Zoom	x10 optical / x16 digital
HFoV	59,2° > 6,7°

Infrared camera

Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 17µm
Lens	35mm F#1.5
Zoom	x1 optical / x8 digital
HFoV	18,5°

Others

LRF	NA
Laser pointeur	NA



Temis family – XL

	XL	XL 3 AXES
PHYSICAL		
Weight	1 100 gr	1 150 gr
Height	183 gr	195 mm
Mini diameter	85 mm	85 mm
Max diameter	127 mm	
Pan	360°	360°
Tilt	360°	360°
Roll	NA	360°

SENSORS

Daylight camera

Resolution	Full HD (1920x1080)
Lens	4,3mm > 129,0 mm (F#1,6 > F#4,7)
Zoom	x30 optical / x12 digital
HFoV	63,7° > 2,3°

Infrared camera

Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 17µm
Lens	35mm F#1.5
Zoom	x1 optical / x8 digital
HFoV	18,5°

Others

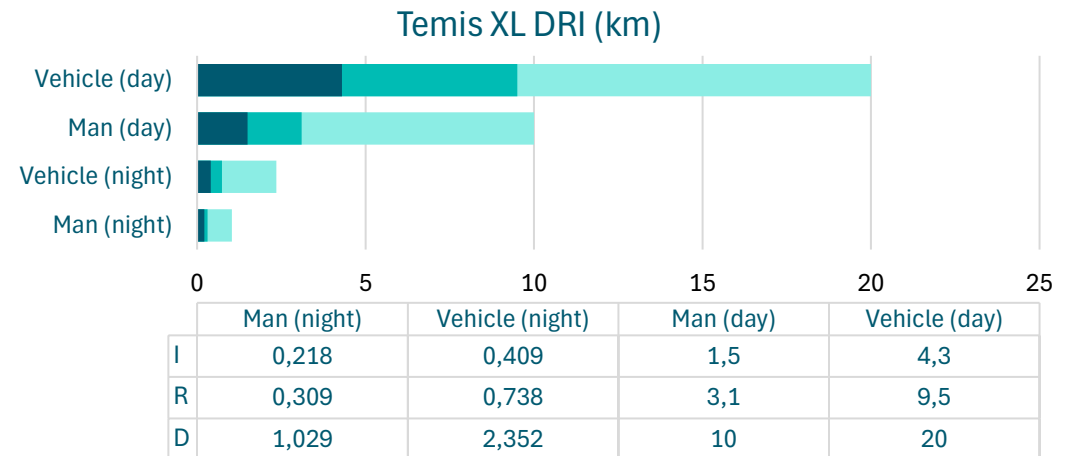
LRF	TBC	TBC
Laser pointeur	Option	TBC



Temis XL



Temis XL 3 AXES



Temis family – XL14

	XL14	XL14HD
PHYSICAL		
Weight	1 300 gr	1 550 gr
Height	210 mm	210 mm
Mini diameter	95 mm	95 mm
Max diameter	140 mm	140 mm
Pan	360°	360°
Tilt	360°	360°

SENSORS

Daylight camera

Resolution	Full HD (1920x1080)	
Lens	4,3mm > 129,0 mm (F#1,6 > F#4,7)	
Zoom	x30 optical / x12 digital	
HFoV	63,7° > 2,3°	

Infrared camera

	Uncooled LWIR	Uncooled LWIR
Technology	Uncooled LWIR	Uncooled LWIR
Resolution, pixel	VGA (640x480), 17µm	SXGA (1280x1024), 12µm
Lens	35mm F#1.5	35mm F#1.2
Zoom	x1 optical / x8 digital	x1 optical / x8 digital
HFoV	18,5°	25°

Others

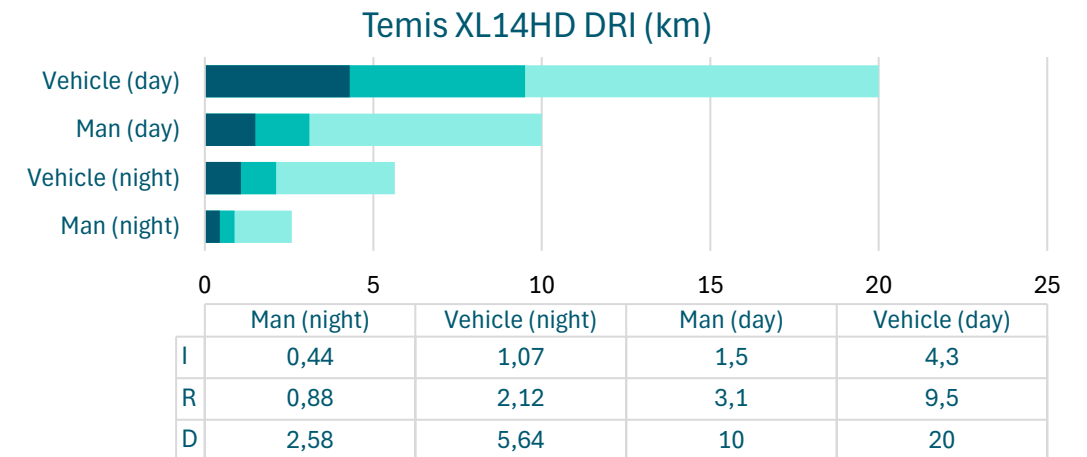
LRF	Option	Option
Laser pointeur	Option	Option



TEMIS XL14



Temis XL14HD



Temis family – XL16Z

PHYSICAL

Weight	1 800 gr
Height	235 mm
Mini diameter	100 mm
Max diameter	160 mm
Pan	360°
Tilt	360°

SENSORS

Daylight camera

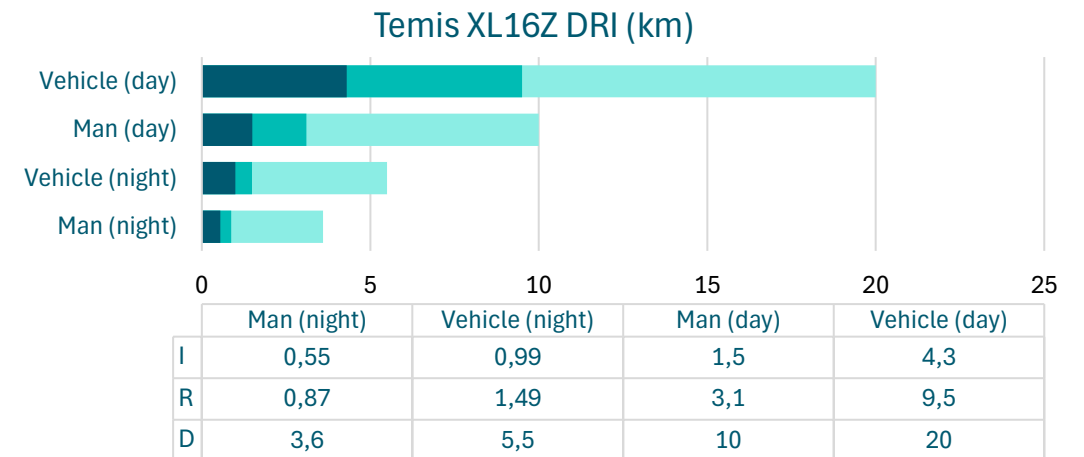
Resolution	Full HD (1920x1080)
Lens	4,3mm > 129,0 mm (F#1,6 > F#4,7)
Zoom	x30 optical / x12 digital
HFoV	63,7° > 2,3°

Infrared camera

Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 17µm
Lens	15mm > 75mm (F#1,2)
Zoom	x5 optical / x8 digital
HFoV	43,4° > 8,2°

Others

LRF	Ranging capability up to 5km (NATO target 2,6 km).
Laser pointeur	Option



Temis family – L20

PHYSICAL

Weight	4 200 gr
Height	309 mm
Mini diameter	140 mm
Max diameter	200 mm
Pan	360°
Tilt	360°

SENSORS

Daylight camera

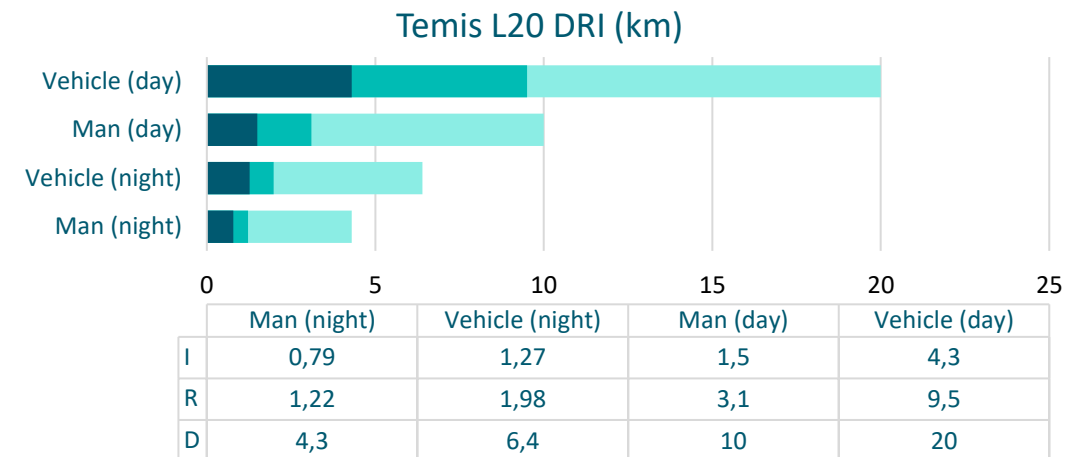
Resolution	Full HD (1920x1080)
Lens	4,3mm > 129,0 mm (F#1,6 > F#4,7)
Zoom	x30 optical / x12 digital
HFoV	63,7° > 2,3°

Infrared camera

Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 17µm
Lens	33mm - 99mm (F#1,15 - F#1,25)
Zoom	x3 optical (bi-focal) / x8 digital
HFoV	18,7° - 6,3°

Others

LRF	Option
Laser pointeur	Option



Temis family – M25

	M25	M25+
PHYSICAL		
Weight	5 400 gr	6 200 gr
Height		356 mm
Mini diameter		140 mm
Max diameter		250 mm
Pan		360°
Tilt		360°

SENSORS

Daylight camera

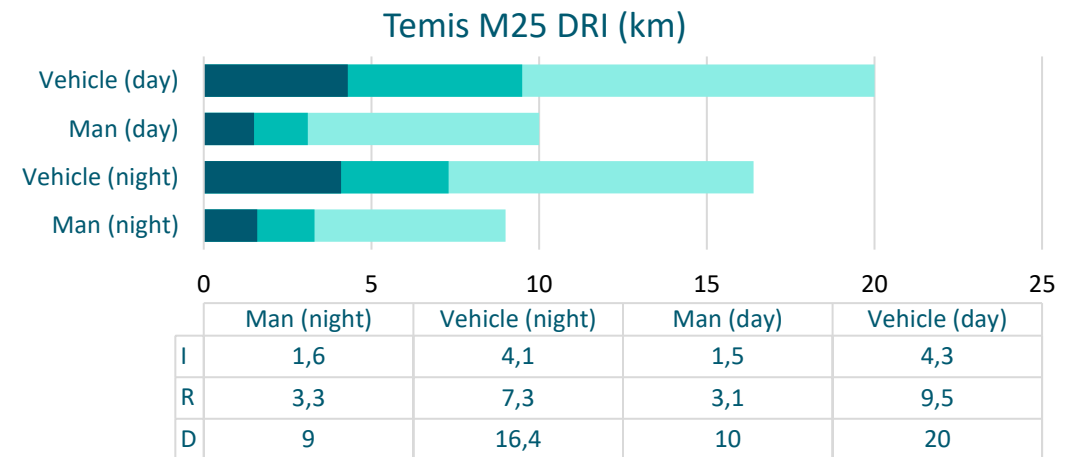
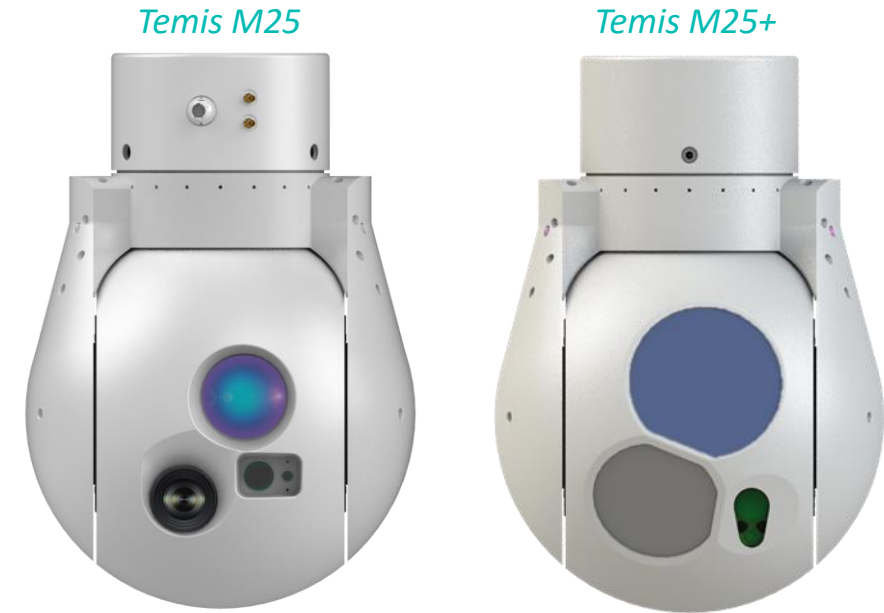
Resolution	Full HD (1920x1080)	
Lens	4,3mm > 129,0 mm (F#1,6 > F#4,7)	
Zoom	x30 optical / x12 digital	
HFoV	63,7° > 2,3°	

Infrared camera

	M25	M25+
Technology	Cooled MWIR	Cooled MWIR
Resolution, pixel	VGA (640x512), 15µm	VGA (640x512), 15µm
Lens	20mm > 275mm (F#5,5)	18mm > 430mm (F#5,5)
Zoom	x15 optical / x8 digital	x25 optical / x8 digital
HFoV	26,5° > 2,0°	29,8° > 1,28°

Others

LRF	Ranging capability up to 8km (NATO target 5,2 km)
Laser pointer	Option



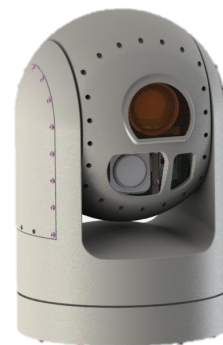


MARINE & LAND GIMBALS

Marine & Land application - Zephyr family



L25



M25



V2 M25

High compacty – Modular design – Innovation inside – French technology

Zephyr, compact and high performance range of marine gimbals

Weight : from 6kg to 8kg

EO : FHD 1920x1080p up to x480 zoom (x30 optical / x16 numeric)

IR : LWIR (NATO detection up to 6,4km) or MWIR (NATO detection up to 15,5km)

Options : LRF, Laser pointer, Intelligence

Zephyr family – L25

PHYSICAL

Weight	8 100 gr
Height	380 mm
Diameter	250 mm
Pan	360°
Tilt	360°

SENSORS

Daylight camera

Resolution	Full HD (1920x1080)
Lens	4,3mm > 129,0 mm (F#1,6 > F#4,7)
Zoom	x30 optical / x12 digital
HFoV	63,7° > 2,3°

Infrared camera

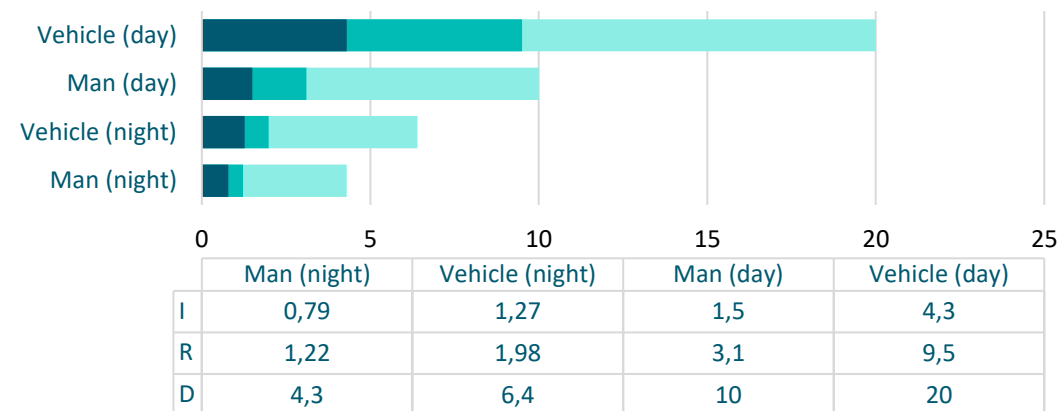
Technology	Uncooled LWIR
Resolution, pixel	VGA (640x480), 17µm
Lens	33mm - 99mm (F#1,15 - F#1,25)
Zoom	x3 optical (bi-focal) / x8 digital
HFoV	18,7° - 6,3°

Others

LRF	Option
Laser pointeur	Option



Zephyr L25 DRI (km)



Zephyr family – M25

PHYSICAL

Weight	8 500 gr
Height	380 mm
Diameter	250 mm
Pan	360°
Tilt	360°

SENSORS

Daylight camera

Resolution	Full HD (1920x1080)
Lens	4,3mm > 129,0 mm (F#1,6 > F#4,7)
Zoom	x30 optical / x12 digital
HFoV	63,7° > 2,3°

Infrared camera

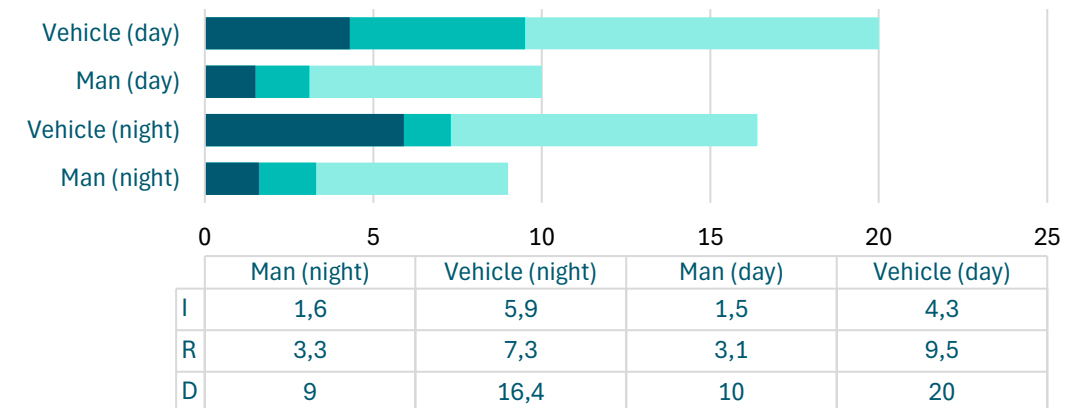
Technology	Cooled MWIR
Resolution, pixel	VGA (640x480), 15µm
Lens	20mm > 275mm (F#5,5)
Zoom	x15 optical / x8 digital
HFoV	26,5° > 2,0°

Others

LRF	Option
Laser pointeur	Option



Zephyr M25 DRI (km)





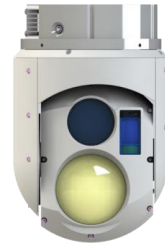
MILVUS

AERIAL TWO-ARMS GIMBALS
NEW 2024/25 PORTFOLIO

Aerial application - Milvus family



MLV10



MLV14



MLV16



MLV25

Lightweight – Modular design – Innovation inside – French technology

Milvus, compact and high performance range of aerial gimbals

Weight : from 600 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_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

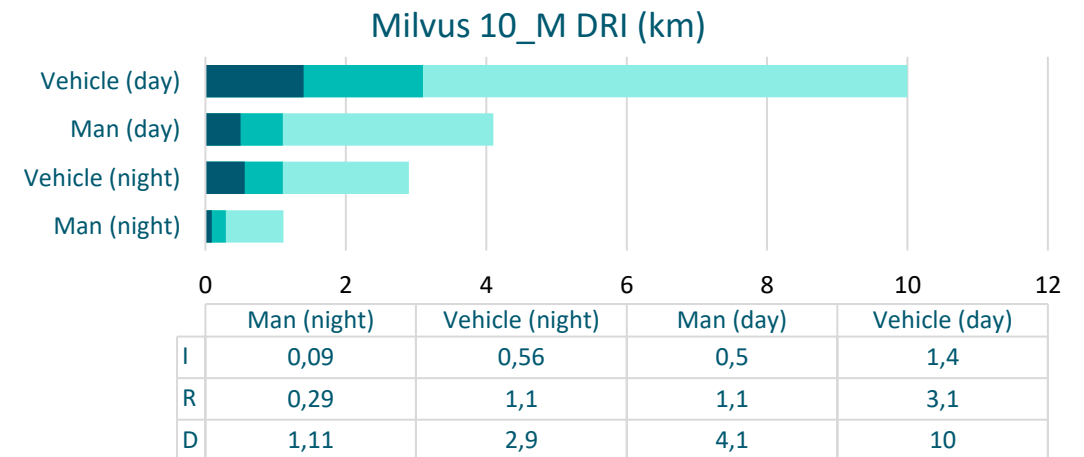
Resolution	Full HD (1920x1080)
Lens	3,3mm > 33,0 mm (F#1,8 > F#3,4)
Zoom	x10 optical / x16 digital
HFoV	59,2° > 6,7°

Infrared camera

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

Others

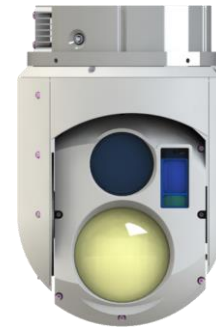
LRF	Option
Laser pointeur	Option



Milvus family – MLV_14Z

PHYSICAL

Weight	1,7kg (3,7 lb)
Height	215mm (8,5")
Diameter (op / stall)	140mm (5,5") / 150mm (5,9")
Pan	360°
Tilt	-90 ° / +120°
Power / Voltage	Typ 15W – max 40W / 22-30VDC



SENSORS

Daylight camera

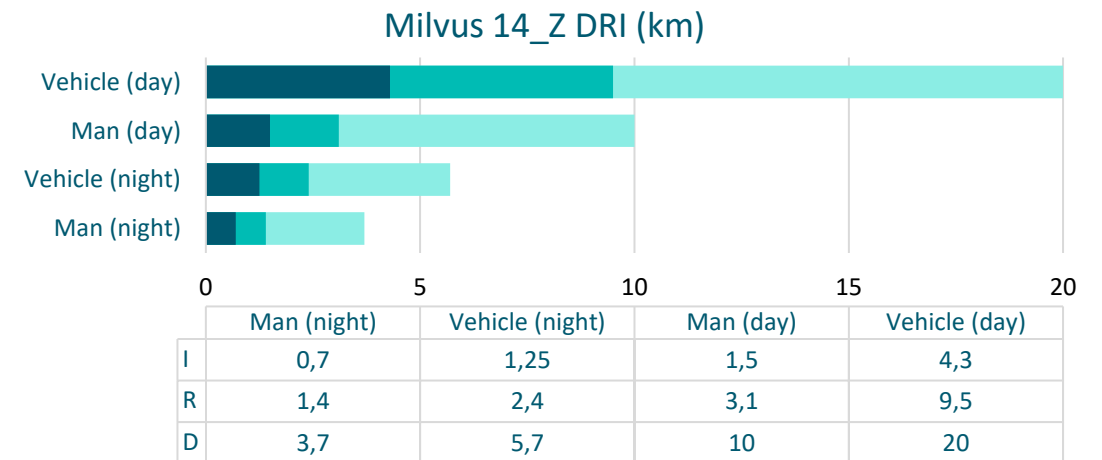
Resolution	Full HD (1920x1080)
Zoom	x30 optical / x12 digital
HFoV	63,7° > 2,3°

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



Milvus family – MLV_16MWIR

PHYSICAL

Weight	2,4kg (5,3 lb)
Height	240mm (9,5")
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

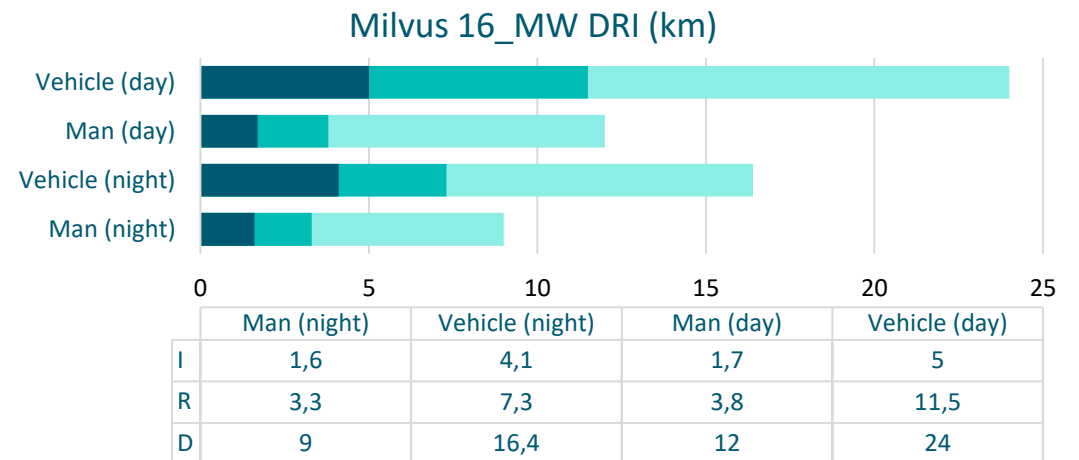
Resolution	Full HD (1920x1080)
Zoom	x30 optical / x12 digital <i>Optional : x36 optical / x32 digital</i>
HFoV	63,7° > 2,3° <i>Optional : 52,6° > 1,95°</i>

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



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

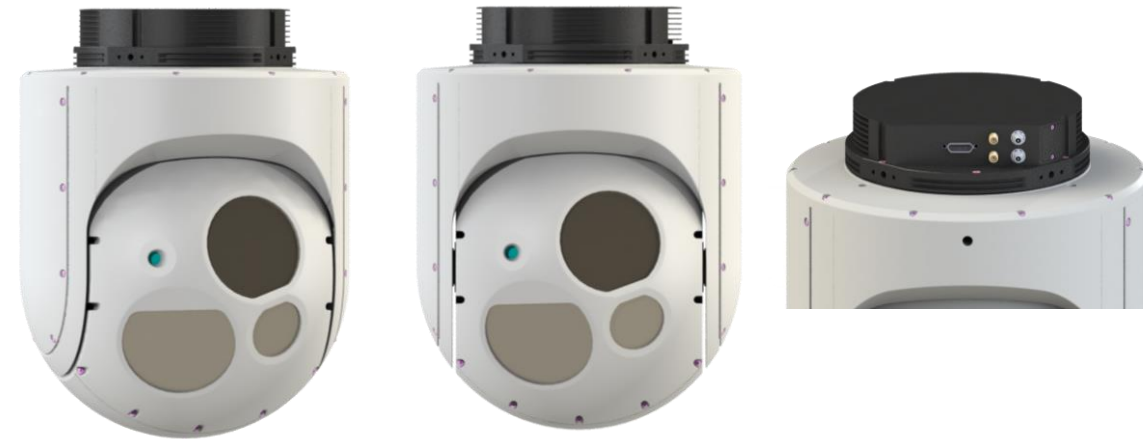
Resolution	Full HD (1920x1080)
Zoom	x30 optical / x12 digital <i>Optional : x55 optical / x32 digital</i>
HFoV	63,7° > 2,3° <i>Optional : 62,1° > 1,29°</i>

Infrared camera

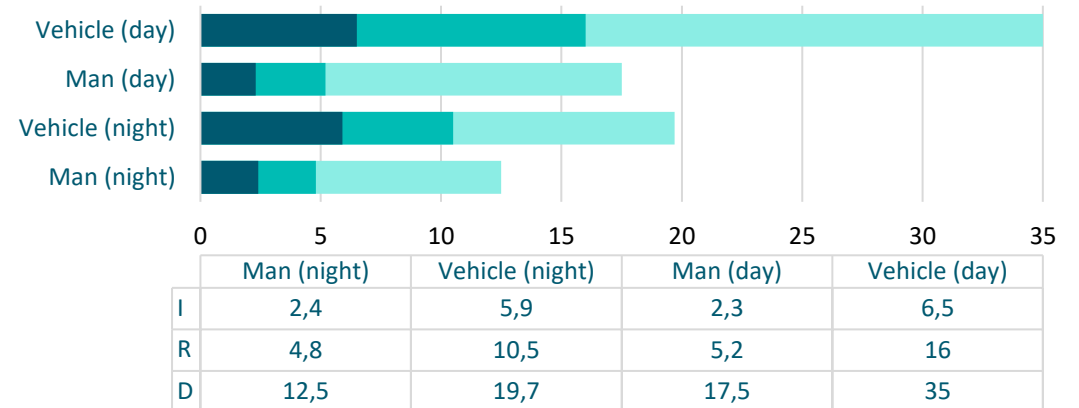
Technology	Cooled MWIR
Resolution, pixel	VGA (640x512), 15µm
Lens	20mm > 275mm (F#5,5)
Zoom	x15 optical / x8 digital <i>Optional : x25 optical / x8 digital</i>
HFoV	26,5° > 2,0° <i>Optional : 29,8° > 1,28°</i>

Others

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



Milvus 25_S DRI (km)



Customer applications





Examples

