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NEMOSYS XR HDTM brings new users' benefits, such as longer range and deep learning algorithms, significantly improving surveillance, detection and identification capabilities.

This solution has been designed and developed to provide customers with robust, easy-to-use and performing systems.

Associated to VIGISENS software suite, with automatic target detection, classification and video tracking algorithms, and linked to radar or detection devices, NEMOSYS XR HDTM range is dedicated to civilian and military applications.

- Sensitive and Critical Infrastructure Protection (CIP) as military camps and airports
- Border surveillance
- Coastal, maritime surveillance and VTS
- Counter UAV applications

- Deep learning classification
- Automatic target detection and video tracking
- Solution designed and manufactured in France, no export restrictions linked to a third country
- Qualified and field proven in maritime & coastal applications.







		CAMIR Cooled	Thermal came	ra		
Sensor		Cooled, snapshot FPA				
FPA Format		1280 x 720 pixels				
Pitch		1260 x 720 pixeis				
Spectral Band		3 to 5 μm				
System NETD		28 mK typical (<30 mK)				
Focus control		Auto (Global or on ROI) / Manual				
2 available configurations		CAMIR-H	· · · · · · · · · · · · · · · · · · ·	CAMIR-HD-900		
Continuous optical zoom		14x - F=50 to 690 mm		13x - F=70 to 900 mm		
HFoV (+/-5%)		14.59° to 1.06°		10.45° to 0.81°		
iFOV		199 – 14				
F/#				/4		
17"		D		•		
NATO townst Detection (4.1)		DRI				
NATO target (2.3m x 2.3m)	Detection (1pl)	26.8 km		28.5 km		
	Recognition (3 pl)	16.7 km		19.4 km		
	Identification (6 pl)	10.4 km		12.6 km		
Human Being	Detection (1pl)	18.9 km		21.7 km		
target (0.5m x 1.8m)	Recognition (3 pl)	8.9 km		11 km		
(0.5m x 1.8m) Identification (6 pl) DRI according to STANAG 4347 / TRM4 Sof			5.0 km 6.2 km			
DRI according to S	STANAG 4347 / TRM4 SO			r km		
		CAMEZOOM Day camera				
Sensor			CMOS sensor – Approx 2.1 Mpixels			
Resolution		1920 x 1080 (1080 p)				
Minimum Illumination (sensor)		5 mLux real time (@25fps) – ICR ON (B&W)				
Spectrum selection		Visible, Near Infrared (Defog), Visible + Near Infrared				
Focus control		Auto / Manual				
Digital zoom				- 8x		
4 available configurations		CAMEZOOM-350	CAMEZOOM-500	CAMEZOOM-1030	CAMEZOOM-2000	
Continuous opt	ical zoom	35x -F=10 to 350 mm	33x -F=15.2 to 500 mm	64x - F=16 to 1030 mm	60x - F=16.7 to 1000 mm (x2) F=33.4 to 2000 mm	
WFoV (HxV) (+/-5%)		31.1° x 17.8°	20.7° x 11.7°	19.6° x 11.1°	22.4° x 12.7° (x2) 11.3° x 6.3°	
NFoV (HxV) (+/-5%)		0.9° x 0.5°	0.6° x 0.3°	0.3° x 0.2°	0.4° x 0.2° (x2) 0.2° x 0.1°	
F/#		1.6 - 3.7	3.0 - 6.4	2.8 - 9.6	3.5 – 8.8 (x2) 7 - 18	
		Evternal Cou	mmunication		(XZ) 7 10	
Control protocols		External Communication Extended PELCO-D protocol				
Control protocols		ONVIF Profile S protocol Dedicated protocol for high-speed communication				
		VIGISENS software ICD				
			tform: PT-610			
Pan Range		N x 360°				
Tilt Range		+/-90° with software and mechanical stops				
Pan speed		0.03°/s to 60°/s				
	Tilt speed		0.03°/s to 40°/s			
	Position Accuracy		<0.1° (1.75 mrad) typical			
Position Accura	псу					
	icy	0.005° (87 μrad)				
Position Accura	ncy	0.005° (87 μrad)	aracteristics			
Position Accura	ncy	0.005° (87 μrad)	aracteristics			
Position Accura Resolution	•	0.005° (87 µrad) Physical ch		ding to MIL-STD-810	G)	
Position Accura Resolution Sealing Operating Temp Storage Tempe	perature	0.005° (87 μrad) Physical challe IP67 -32°C to +55°C (C2 α -40°C to +71°C	& A1 Climates accor		,	
Position Accura Resolution Sealing Operating Tempe Storage Tempe Environment	perature rature	0.005° (87 µrad) Physical characteristics IP67 -32°C to +55°C (C2 6) -40°C to +71°C Compliant to standard	& A1 Climates accor	maritime application	S	
Position Accura Resolution Sealing Operating Temp Storage Tempe	perature rature (with option)	0.005° (87 µrad) Physical ch IP67 -32°C to +55°C (C2 6 -40°C to +71°C Compliant to standa < 890 (w) x 800 (d) x	& A1 Climates accor	maritime application st performing configu	S	

Options: C2 / Radar integration – Windows cleaning system – VIGISENS software suite