CAYMAN-K2CO24 Driving Assistance and Security System

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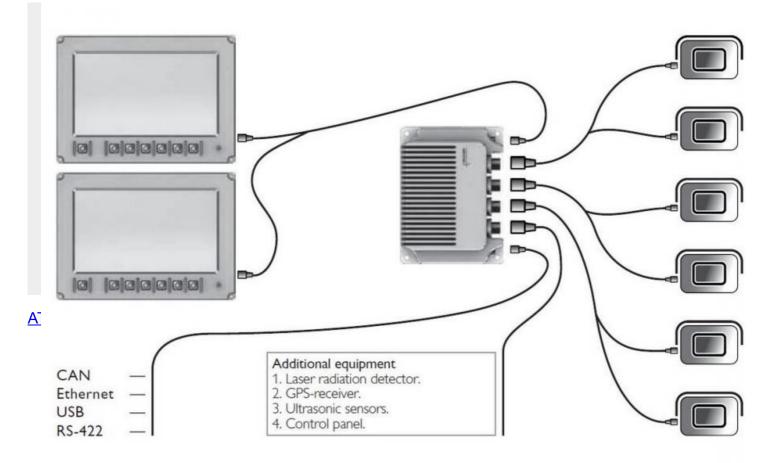
Driving assistance system CAYMAN K2CO24 has been developed for active support of the vehicle (including armored vehicles, combat tanks, SP artillery mounts etc) in critical driving situations. The main purpose of the system is continious monitoring of the vehicle surroundings to detect potentially dangerous situations at an early stage and help drivers of tactical wheeled vehicles avoid accidents. Moreover, the system supports safe driving in total darkness when headlights are off.

The system is built with components that are more rugged to navigate unstructured environments.

CAYMAN K2CO24 consists of 4 hybrid cameras mounted on the body of the vehicle (in front, at the rear and on each side), providing a complete overview of the surroundings and keeping the vehicle from straying from its pathway or hitting the obstacles in its blind spot. Each camera has a daily channel with a high-quality CMOS detector and a thermal imaging channel equipped with a high-sensitivity passive long-range infrared receiver (LWIR) that makes possible to the driver to monitor the situation in all weather conditions.

The image from the cameras is reflected on the highdefinition color display, which is installed in the cab of the vehicle. The system is powered by an onboard network of a vehicle with a voltage of 12-24V.





TECHNICAL CHARACTERISTICS

DETECTOR		1 LV		HAKACIEKI	51105			
DETECTOR			L la a i i l					
Technology				ed VOx Micro				
Resolution		336 x 256			640 x 512			
Pixel size		17 μ						
Operating wavelength		7.5-13.5 μm						
Sensitivity		<30 mK						
OPTICS	1							
Objective	ective		7.5 mm		14.25 mm		35 mm	
Objective F nu	mber	F/*	1.4	F/	1.2	F/1.2 17.6° 8.8	1.2	
Field of view (h	norizontal)	90.2°	45.1°	44°	22°	17.6°	8.8°	
Field of view (v	vertical)	68.4°	34.2°	33.4°	16.7°	13.4°	6.6°	
Focusing range	е	8 m	÷∞	10 r	n÷ ∞	10 m	ן÷∞	
Detection		300 m	± 15%	600 m	± 15%	1150 m	± 15%	
Recognition		75 m :	± 15%	150 m	150 m ± 15%		250 m ± 15%	
Identification	J		40 m ± 15%		75 m ± 15%		180 m ± 15%	
ELECTRONIC	S					·		
Frame rate	25 Hz (PAL) / 30 Hz (NTSC)							
Video output	PAL, NTSC							
Display	TFT/LED, 800×600							
TELEVISION I	MODULE							
Objective		2.8 mm (Wide FoV 109°x82°) ÷ 12 mm (Narrow FoV 22°x18°)						
Minimum illumination		0.01 LUX (COLOR); 0.001 LUX (B&W)						
Standard of outcoming	(720 x 576) PAL, NTSC							

signal CVBS			
OPERATING PARAMETERS			
Starting time	3 sec		
Temperature range	-30°C ÷ +65°C		
Display dimensions (10") (L x W x H)	280 x 200 x 40 mm		
Camera dimensions (L x W x H)	196 x 95 x 170 mm		
Display weight	1.65 kg		
Camera weight	3 kg		
Protection level	IP67		
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