



Night Vision System NVS

24/7 surveillance, around the clock!



- Maximum sensitivity 0,00047 lux
- 1/2" CCD EXview CCD Sensor
- Automatic iris control
- Day / night operation
- 12 Bit digital
- 58 dB SNR
- Remote control by RS 232
- KAPPA DRE function for clear view in low contrast conditions like fog
- Configurable back light compensation
- Integrated LED ring light (940 nm)
- Orientation aid with line generator function (LG)
- Control unit available for computer-independent operation

With a verified minimum illumination of 0,00047lx the KAPPA NVS is one of the most light-sensitive cameras on the security market. The NVS is a professional high-end camera system that features 12 bit digital signal processing, high resolution and excellent signal-to-noise ratio. The system is designed for sophisticated surveillance tasks and as an optical aid (for general orientation or while reversing) in vehicles for special purposes such as hazardous materials transporters or ambulances. The exceptional sensitivity to light is achieved through the innovative

KAPPA circuit arrangement in combination with Sony's Exview CCD sensor.

Another advantage of the camera is its DRE feature (Dynamic Range Enhancement), which provides a clearer view in fog, haze, smoke or rain. Designed as a system, the NVS comes with an automatically controlled lens, enabling it to operate around the clock, in pitch darkness as well as in bright sunlight. The integrated infrared LED ring light uses non-visible light waves (940 nm; zero lux). The anodized black housing is small and inconspicuous.



NVS and control unit

realize visions.



NVS System (Night Vision System)

Technical Data



Sensor		
Type:	1/2" interline transfer NIR CCD (Sony EXview HAD CCD)	
Video norm:	CCIR	EIA
Area:	6.4 x 4.8 [mm], 752 x 582 pixel	6.4 x 4.8 [mm], 768 x 494 pixel
Signal Processing		
System:	12 Bit DSP	
Signal/noise ratio:	>58 dB (measured in a dark image at 20 ms integration, field integration and 0 dB amplification)	
Sensitivity:	(20 ms integration, 3000 K, field integration, Gamma = 1 and 50 % video level without IR filter) 0.01 lx at 14 dB; 0.0025 lx at 26 dB; 0.00047 lx at max gain	
Resolution:	740 lines (horizontal)	750 lines (horizontal)
Signal outputs:	Monochrome video, 1 V _{pp} / 75 Ω	
Functions		
Short integration:	1/50 to 1/100 000 s automatic [AIT], 1/50 s fix	1/60 to 1/100 000 s automatic [AIT], 1/60 s fix
Gain:	Recommended: 0 to 26 dB automatic [AGC], fixed 0 dB, 0 to 36 dB (RS 232 adjustable)	
Gamma:	0,45 / 1, switchable	
LG:	Line generator for two reticles (adjustable by RS 232)	
DRE:	Dynamic Range Enhancement (adjustable by RS 232)	
Synchronization:	Internal	
RS 232:	AIT, AGC, Gamma, DRE, LG etc. (additional accessories required, see "Optional")	
General		
Power supply:	10-36 VDC, 5 W (incl. illumination)	
Illumination:	Switchable, 24 LED (light emitting diodes), infrared, 940 nm	
Lens:	Focal length 12 mm (infrared optimized), 30° horizontal optic angle, auto iris control	
Connections:	KTN NVS 7-pin plug (Amphenol T 3106 00), 5 m cable (up to 30 m available)	
Operating temperature:	-30° C to +60° C	
Relative humidity:	10 % to 90 %, non-condensing	
Housing:	IP 67, aluminum, black anodizing	
Housing dimension:	66 Ø x 128 mm	
Weight:	690 g	
Standard equipment:	Camera, operating manual, removable stand adapter, KTN NVS	
Order no.:	NVS 951-1140	
Optional		
Integration into the modular software package KAPPA ImageBase (KIB) via PCI-bus frame grabber.		
Software for serial control and control cable (see extra datasheet)		
Control Unit - NVS (12 V IN / Video out / Power, LED and DRE on/off) Order no.: 999-0789		
Stand adapter ¼"		

We are constantly checking the accuracy of the technical data. We are prepared to provide more detailed information on request.

Technical data are subject to change without notice!! 071105

