

Night Vision System

III NVS

24/7 surveillance, around the clock!



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

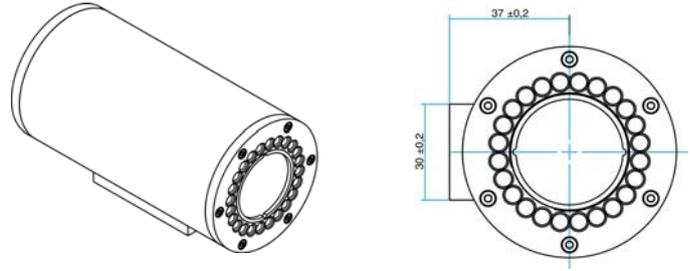


NVS and control unit (optional)

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)
Optional: Control unit available for computer-independent operation

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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 lux at 14 dB; 0.0025 lx at 26 dB; 0.00047 lux 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.	951-1140 NVS

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, variable	

We are constantly checking the accuracy of the technical data.
We are prepared to provide more detailed information on request.
Technical datas are subject to change without notice!

