



## Rugged MFZ-SD 8 HS Driver Assistance Mono Camera

MFZ-SD driver assistance camera increases the safety of the mission crew and the road users by providing a high sensitivity for clear view even under low light conditions.

Kappa optronics is one of the few camera manufacturers with comprehensive know-how in design, development and production of extremely rugged, custom-made camera systems for diverse high-end applications. Kappa has many years of experience with rugged products used in the aerospace and defense industries, under environments that require the highest resistance to mechanical, climatic and electromagnetic stress, as well as to surrounding substances and external impacts.

## Technical data

### Sensor

Type	1/2" interline transfer NIR CCD (Sony EXview HAD CCD)
Signal output	Video signal CCIR
Area (H x V)	6.4 x 4.8 mm, 752 x 582 pixel
Filter	Calflex X

### Signal processing

System	12-bit DSP
Sensitivity	0.01 lux at 14 dB, 0.00047 lux at max. gain
Exposure	1/50 to 1/100 000 s, automatic [AIT], 1/50 s fix
Camera functions	Automatic shutter, automatic gain
Synchronization	Internal/ external, reset/restart

### Optics

Focal length	6 mm (other focal lengths available upon request)
Wavelength	400-1000 nm
Aperture range	Fixed 8 (factory setting to different values possible)
Field of view	56° HFOV, 43° VFOV

### General technical data

Power input	9-36 V DC, 14,5W
Heating power consumption	10.5 W
Camera power consumption	4 W
Power supply range	18,5V to 32,5V, no micro power cut protection
Operating temperature	-25° C to + 65° C
Relative humidity	10 % to 90 %, non condensing
Standard equipment	Camera, mechanical and electrical ICD, video signal cable
Control input	RS232 service interface
Overall dimension	Refer technical drawing KAPPA A115.0001.01
Video signal cable	10.5m BNC double shielded, client specified length up to 20m upon request

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

#### Kappa optronics GmbH

Kleines Feld 6  
37130 Gleichen | Germany  
Fon +49.5508.974.0  
Fax +49.5508.974.100  
info@kappa.de  
www.kappa.de

#### Kappa optronics Inc.

825 Primrose Ave., Unit I  
Monrovia, CA 91016 | USA  
Fon +1.626.256.4343  
Fax +1.626.256.6484  
info@kappa-optronics.com  
www.kappa-optronics.com

#### Kappa France

84, Che. Ruisseau Fontbazy  
31450 Donneville | France  
Tél + 33.5 61 27 82 81  
Fax + 33. 9 58 63 66 31  
info@kappa-vision.fr  
www.kappa-vision.fr