



Rugged MFZ-HD 02150 SDI Driver Assistance Color Camera

The high definition MFZ-HD camera increases the safety of the mission crew and the road users by providing a nearly latency-free video transmission.

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	2/3" interline transfer CCD progressive scan with micro lenses (Kodak KAI 02150)
Signal output	HD-SDI, high definition digital video (HDTV)
Area (H x V)	10.56 mm x 5.94 mm (16:9), 1920 x 1080 active pixel
IR Filter	BG40 1mm, 305nm to 710 nm

Signal processing

System	14-bit DSP
Sensitivity	Full well capacity: 20 000 e ⁻
Exposure	1/25 to 1/100 000 s, Gamma 0.7
Camera functions	Automatic shutter, automatic gain, automatic white balance
Synchronization	Internal

Optics

Focal length	8 mm (other focal lengths available upon request)
Wavelength	400-1000 nm
Aperture range	Fixed 8 (factory setting to different values possible)
Field of view	67° HFOV, 41° VFOV

General technical data

Power input	9-36 V DC, 14,5 W
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	RS232C service interface
Overall dimension	Refer technical drawing KAPPA A115.0001.01
Video signal cable	Recommended cable as drawing video HVF1.0 /4.8BAF BNC double shielded
Power cable	Not included, recommended 0,5mm ² (AWG 21 for length ≤ 20m)

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!

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