

MT-MP-MicroCAM-VNIR6418

Miniature Low-Light-Level VNIR Camera with MIPI Output

VNIR Camera with 640×480 Resolution



MT-MP-MicroCAM-VNIR6418 is a compact low-light-level VNIR camera with MIPI output that can perform from day time down to moonless star-light conditions. The camera has an all-digital global shutter CMOS image sensor operated in the 640x480 format with special large area pixels providing improved light sensitivity in the 400nm – 1100nm spectral band from visible to Near Infrared (VNIR). This new low-light-level VNIR camera can work at very low light levels down to 0,3mLux. The camera supports MIPI CSI-2 Standard output and supports frame rates up to 25 fps in global shutter mode. The camera measures **58mm × 55,5mm × 23mm** without the lens and cable connectors, and weighs less than **88 grams** without optics. The camera has a Cs-mount lens interface and recommended lens is a 25mm f/0.95 lens. Different lens options can be provided upon request.

Application Areas:

- Low-Light-Level Imaging
- Security and Surveillance
- Driver Vision Enhancement
- Industrial Machine Vision
- Traffic Control
- Scientific Visible/NIR Imaging
- Drone and UAV based imaging



Detailed Technical Specifications

MT-MP-MicroCAM-VNIR6418

Electrical Specifications		
Video Format	640 × 480	Pitch: 18µm
Sensor Type	CMOS	
Exposure Control	Global Shutter	
Spectral Response	VNIR: 400nm – 1100nm	
Digital Video Resolution	12-bit	
Video Output	MIPI Format Stream/Video	
Frame Rate	≤ 40 fps	
Integration Time	20ms to 180ms	
Full-Well-Capacity	60 Ke- ± 10%	
Programming Interface	I ² C	
Read Noise	≤ 30 e-rms	
Supply Voltage	5V DC	
Power Dissipation	≤ 1,35 W	

Mechanical Specifications	
Dimensions	58mm × 55,5mm × 23mm (w/o optics)
Weight	88 grams w/o optics
Mounting	Screw hole for tripod

Optical Specifications	
Recommended Lens	f/0.95, 25mm
Mount	Cs-Mount