MT-MIMC-V6418

CMOS VNIR Camera with USB 2.0 / IP

MT-MIMC-V6418 is a compact CMOS VNIR camera. It has a CMOS based sensor in the 400nm-1100nm VNIR spectral band. The sensor has a format of 640x480 and an enourmous pixel pitch of 18µm.

MT-MIMC-V6418 is a compact camera electronics built using our new modular camera platform called UCPIS (Ultimate Camera Processing and Interfacing System). This system handles all caibrations and processes for the sensor. The video interface is based on USB 2.0 or H.264/265 stream over ethernet.

The camera is built with industrial components (-40/+85^{o} C). The camera measures 44mmx44mmx50mm without optics. It weighs less than 120 grams without optics. The camera has a CS-mount lens interface and comes with a 25mm f/0.95 lens. Different lens options can be provided upon request.

Application Areas

- Low Light Level Applications
- Security and Surveillance
- Driver Vision Enhancement
- Traffic Control
- Scientific Imaging
- Drone and UAV-based Imaging

Detailed Technical Specifications

MT-MIMC-V6418

Electrical Specifications		
Array Size	Format: 640 × 480	Pitch: 18 µm
Active Area	11.52 mm × 8.64 mm	
Detector Type	CMOS	Spectrum: 400nm-1100nm
Sensor Core	ROIC: MT01M18GD	
Video Output	USB 2.0 UVC H.264/265 IP Stream over Ethernet	
Camera Control	UVC endpoint RS-232 / UART	
Frame Rate	≤ 25 fps	
Input Referred Noise	≤ 30 e- rms	
Supply Voltage	5V M5-4PIN (delivered with the camera)	
Power Dissipation	≤ 4W	

Mechanical Specifications	
Dimensions	44mm × 44mm × 50mm (w/o optics) 38mm x 38mm x 38mm (w/o optics and body)
Weight	≤ 120 grams (w/o optics) ≤ 60 grams (w/o optics and body)
Mounting	2 holes with M2 size

Optical Specifications	
Lens	f/0.95, 25mm
Mount	CS-Mount