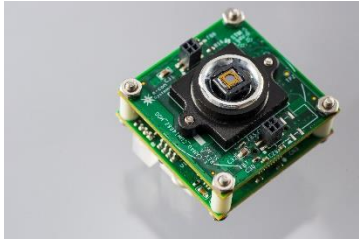


## UNS31000 Specifications



### Description

Tuneable multi-spectral camera module based on  $\mu$ FPF filter

- Python SDK
- Powered by raspberry-PI

### Applications

- Low Cost NIR Spectroscopy
- Small form-factor Tuneable imaging filter
- Fast switching optical modes

### Features

- UART interface for wavelength control
- 2-lane MIPI camera interface (RPI compatible)
- Unique mechanical solution for  $\mu$ FPF filter
- Temperature + pressure sensor
- LUT saving option

### Components

- Sensor module – ARDUCAM OV9281
- Lens – DSL936C-NIR-F3.2
- Driver – UNS\_DRV V3
- $\mu$ FPF rev.U1
- $\mu$ FPF holder+flex rev.6

	Nnominal value	Comments
<b>Camera</b>		
Clear aperture	1.3 mm	
EFL	8.5 mm	
FOV	30°	
Max Frame-Rate	60 FPS	
<b>Filter</b>		
		none polarized light. Normal incidence
FWHM	35 nm	10% variance
Wavelength range	710-940 nm	
Wavelength accuracy	$\pm 5$ nm	
Max peak transmission	50 %	
repeatability	$\pm 2$ nm	
Angular dependency	-1 nm/°	
FWHM Angular dependency	2 nm/°	
CWL Temperature coefficient	-1 nm/°C	
<b>Electrical</b>		
Input Voltage	5 Vdc	
Power Consumption	<0.1W	
<b>Working Conditions</b>		
Operating Temperature Range	10-40 °C	
Humidity	<90%	None condensing
<b>Packaging</b>		
Size	60x40x25mm	

