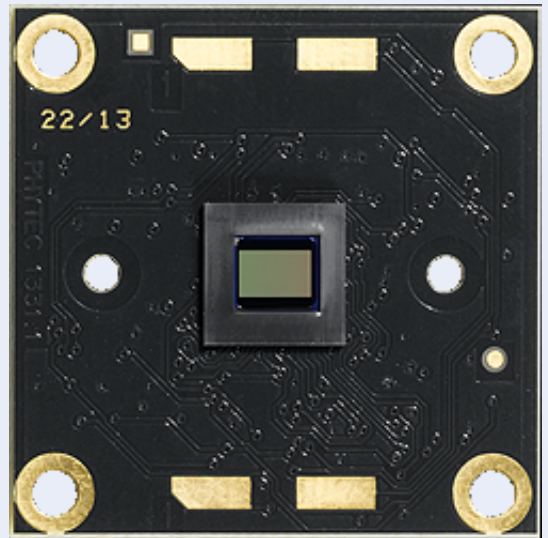


CAM



Overview

Digital Camera Module with W-VGA resolution for direct connection with SOM interface (color).

VM-010-COL-LVDS is equipped with the Aptina MT9V024 color CMOS sensor. Image data format is 8-bit Bayer Pattern.

This camera module is equipped with the serial phyCAM-S+ interface. It can connect directly to the SOM LVDS camera interface. All PHYTEC phyCARD and phyFLEX SOMs offer this interface, which is implemented on the PCB.

All camera drivers and demo programs are already implemented in the Board Support Package for the respective SOM.

Trigger and strobe signals in order to synchronize the camera can be connected via an additional, three-pole connector.

The camera module is available with three housing options: PCB-version (sensor only), with M12 or with C/CS-mount lens holder.

Technical Details

VM-010-COLOR

Camera Characteristics

Resolution	WVGA
Image Resolution (H x V)	752 x 480
Sensor Size	1/3" 4.51 x 2.88 mm
Pixel Size	6.0 x 6.0 μm
Color / Monochrome	WVGA
Sensor Technology	CMOS
Sensor Chip	Aptina MT9V024
Scanning System	progressive
Shutter Type	global
Frame Rate, max (fps)	up to 60 fps (Vollbild)
Video Resolution	n/a
Sensitivity	4.8 V/lux-sec
Dynamic Range	>55 dB linear
High Dynamic Range	>80...100 dB
Exposure Time	programmable
Gain	x1...x4
AEC	yes
AGC	yes
White Balance/AWB	n/a
Ext. Trigger / Sync.	Trigger / Strobe / LED Light
ROI	yes

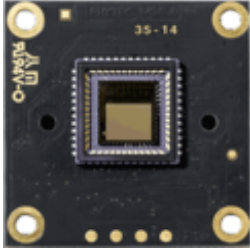
Binning	2x2 / 4x4
Mirror	programmable
LED Lighting	optional
Electrical Interface	
Interface Type	digital
Connection	phyCAM-S+
Data Format	8 Bit seriell
Interface Mode	Y8
Dataline Shifting	-
Parameter Settings	I ² C
Supply Voltage	3.3 V
Power Consumption	320 mW
Standby Power	120 mW
Mechanical Specifications	
Lens Mount	none / M12 / C-CS
Dimensions (mm)	34 x 34
Mounting	4 x M2.5
Weight	7g
Operating Temperature	-25 to 85°C
Connections	
Signal Output	Hirose 8 pol.
Trigger / Sync.	JST 3 pol. Crimp

Pricing plus VAT

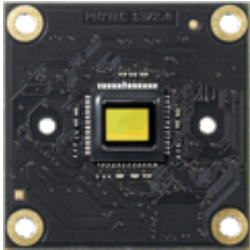
VM-010-COL-LVDS

Quote

Related Products



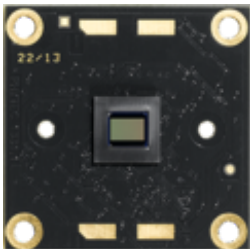
VM-012: phyCAM-P - monochrome



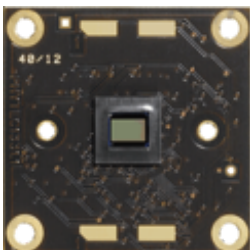
VM-011: phyCAM-P - monochrome



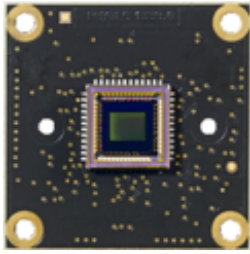
VM-011: phyCAM-P - color



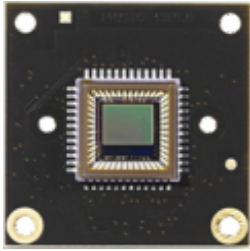
VM-010: phyCAM-P - monochrome



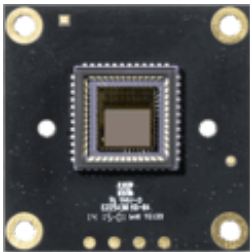
VM-010: phyCAM-P - color



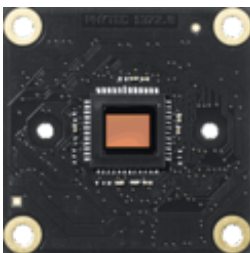
VM-009: phyCAM-P - color



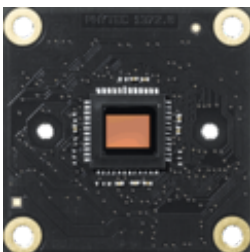
VM-006: phyCAM-P monochrome



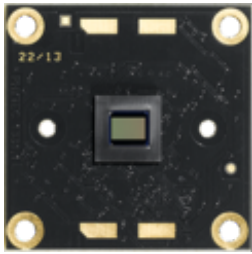
VM-012: phyCAM-S+ - monochrome



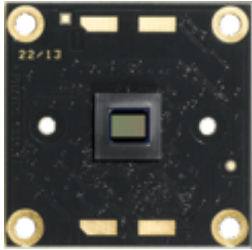
VM-011: phyCAM-S+ - monochrome



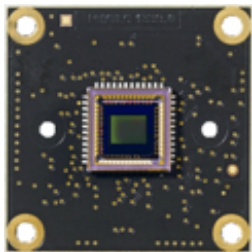
VM-011: phyCAM-S+ - color



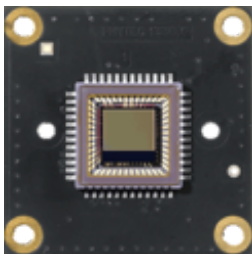
VM-010: phyCAM-S+ - monochrome



VM-010: phyCAM-S+ - color



VM-009: phyCAM-S+ - color



VM-006: phyCAM-S+ monochrome



VM-008 Video Converter



VM-050: Thermal Imaging Camera



VM-051: Thermal Imaging Camera

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- phyBOARD-Zeta
- phyBOARD-Mira
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