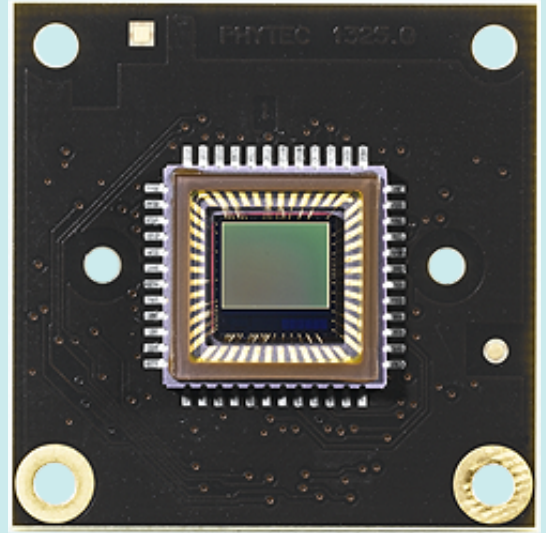


CAM



Overview

Digital Camera Module with 1.3 Megapixel resolution for direct connection with SOM interface (monochrome).

VM-006-BW can connect directly to the parallel processor camera interface. All PHYTEC PCBs with phyCAM-P connection (e.g. all SOMs with OMAP and i.MX processor) can directly connect the sensor board with a cable. All camera drivers and demo programs are already implemented in the Board Support Package for the respective SOM.

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

All VM-006-BW variants are optionally available with an integrated multiplexer. This allows to switch the camera from 8-bit to 10-bit interface operation by an I²C bus command.

This option is essential if an application requires both, 8-bit and 10-bit data (for example for 8-bit live preview and 10-bit analysis) but the processor interface does not support this function.

Technical Details

	VM-006- BW	VM-006- BW-MUX
Camera Characteristics		
Resolution	1.3 Mpixel	1.3 Mpixel
Image Resolution (H x V)	1280 x 1024	
Sensor Size	1/2" 6.66 x 5.32 mm	1/2" 6.66 x 5.32 mm
Pixel Size	5.2 x 5.2 μm	5.2 x 5.2 μm
Color / Monochrome	monochrom	monochrom
Sensor Technology	CMOS	CMOS
Sensor Chip	Aptina MT9M001	Aptina MT9M001
Scanning System	progressive	progressive
Shutter Type	rolling	rolling
Frame Rate, max (fps)	up to 30 fps (Vollbild)	up to 30 fps (Vollbild)
Video Resolution	n/a	n/a
Dynamic Range	68.2 dB	68.2 dB
Exposure Time	programmable	programmable
Gain	x1...x15	x1...x15
AEC	-	-
AGC	-	-
White Balance/AWB	n/a	n/a
Ext. Trigger / Sync.	Trigger/Strobe	Trigger/Strobe
ROI	yes	
Binning	2x2	2x2
Mirror	programmable	programmable
Electrical Interface		

Interface Type	digital	
Connection	phyCAM-P	
Data Format	8 / 10 Bit parallel	
Interface Mode	Y8 / Y10	Y8 / Y10
Dataline Shifting	-	yes
Parameter Settings	I ² C	I ² C
Supply Voltage	3.3 V	3.3 V
Power Consumption	363 mW	363 mW
Standby Power	300 µW	300 µW
Mechanical Specifications		
Lens Mount	none / M12 / C-CS	none / M12 / C-CS
Dimensions (mm)	34 x 34	34 x 34
Mounting	4 x M2.5	4 x M2.5
Weight	7g	7g
Operating Temperature	0 to 70°C	0 to 70°C
Connections		
Signal Output	FFC 33 pol.	FFC 33 pol.
Trigger / Sync.	FFC / Molex 11 pol.	FFC / Molex 11 pol.

Pricing plus VAT

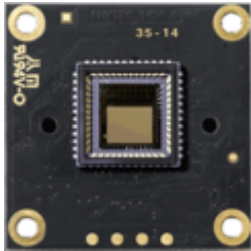
VM-006-BW

Quote

Download

See here for the VM-006 phyCAM-P Monochrome Download section.

Related Products



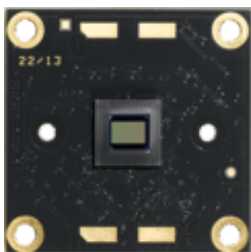
VM-012: phyCAM-P - monochrome



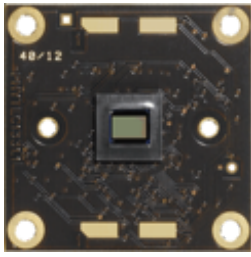
VM-011: phyCAM-P - monochrome



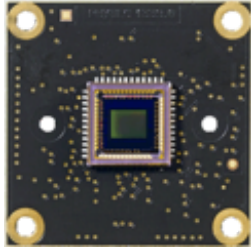
VM-011: phyCAM-P - color



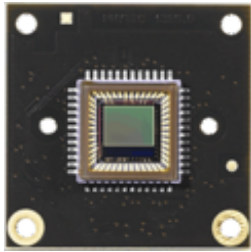
VM-010: phyCAM-P - monochrome



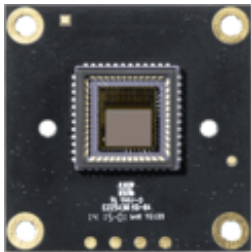
VM-010: phyCAM-P - color



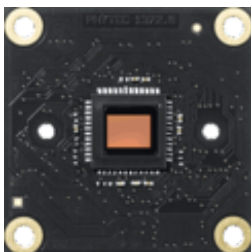
VM-009: phyCAM-P - color



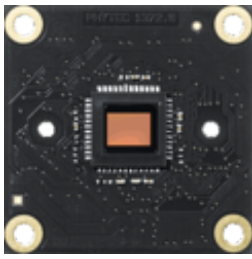
VM-006: phyCAM-P monochrome



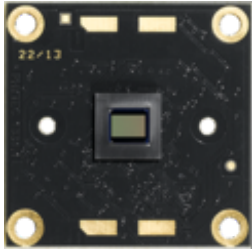
VM-012: phyCAM-S+ - monochrome



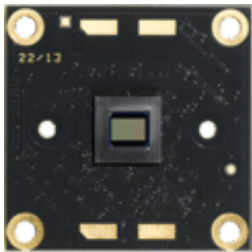
VM-011: phyCAM-S+ - monochrome



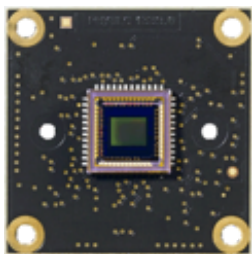
VM-011: phyCAM-S+ - color



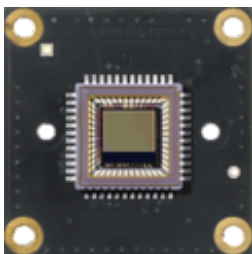
VM-010: phyCAM-S+ - monochrome



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

Featured Products

phyCORE-i.MX 8
phyCORE-i.MX 7
phyCORE-i.MX 6UL/ULL
phyCORE-i.MX 6
phyCORE-AM57x
phyCORE-AM335x
phyBOARD-Segin
phyBOARD-Zeta
phyBOARD-Mira
phyBOARD-Wega

Custom Solutions

Custom SOMs
Custom SBC+
Housing Design

Company

About PHYTEC
Production in Germany
Jobs
Imprint
EU-GDPR

Contact

Support

Events

Knowledge Database

RMA



 Deutschland

deutsch

english

polski

русский

 France

 America

 India

 中国