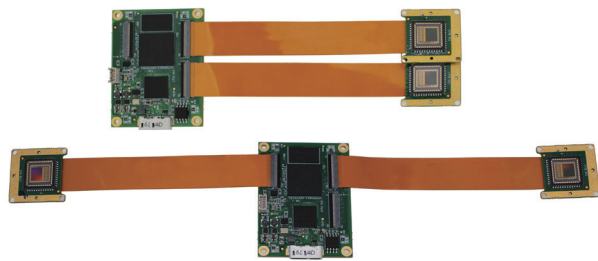


Venus Series

VEN-134-90U3M-D NIR



- Ultra small and flexible
- 1/2" Global Shutter CMOS sensor
- Optimized NIR response
- Compatible with GenICam™ and USB3.0 Vision®
- USB3.0 Interface
- 1.3 Megapixels
- 2 sensor boards
- FPC cable up to 460mm
- Very attractive price

The VENUS series (VEN-U3) camera is DAHENG IMAGING's first board level industrial digital camera. And the VEN-134-90U3M-D NIR is the first product in this series. It is a monochrome USB3.0 Vision camera with two Onsemi PYTHON 1300 CMOS sensors, the sensor has optimized response in the near-infrared band. It is a good choice for users who have requirements for space, weight, consumption and heat.

VEN-134-90U3M-D NIR is more flexible for installment and suitable for more applications. There are three connection ports in the main board and each sensor board can be freely connected to one of three ports by FPC cable. The length of FPC cable can be extended up to 460mm. They can be put in both sides or the same side to meet users' application requirements for different structure products.

The VEN-134-90U3M-D NIR board level camera is easy for use and installation, especially designed for binocular vision applications such as handheld 3D scanner, desktop 3D scanner and so on.

- Mini USB3.0 interface with 10-bit or 8-bit Mono output
- Programmable ROI, increased frame rate with partial scan
- Gain and exposure programmable
- Adjustable URB
- Software reset function
- Hot plugging available
- Support embedded operating system Linux , Android
- Support hardware trigger and software trigger
- Compatible with GenICam™ and USB3.0 Vision®, can be used in a wide range of 3rd-party software such as HALCON and LabVIEW
- PC with Intel Core 2 Duo, 2.4GHz above and 2GB above memory is recommended
- Free SDK and examples for various programming tools
- Regulations: CE, RoHS, GenICam, USB3.0 Vision

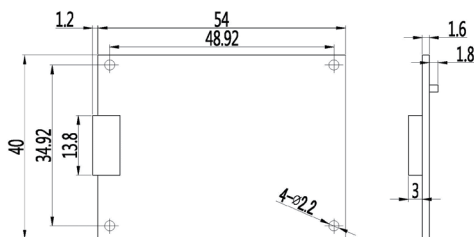
Performance Specifications

Model	VEN-134-90U3M-D NIR
Interface	USB3.0
Resolution	1280 × 1024 × 2
Frame rate	90 fps
Sensor	1/2", Global Shutter Onsemi PYTHON 1300 CMOS
Cell size	4.8 μm × 4.8 μm
Spectrum	Mono, NIR

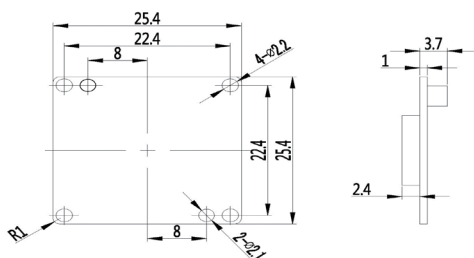
Mechanical Specifications

Dimensions (mm)	main board	54.0 × 40.0 × 6.4
	sensor board	25.4 × 25.4 × 6.1
FPC cable extension	up to 460mm	

Dimensions



main board (unit: mm)



sensor board (unit: mm)

EHD imaging GmbH

Zum Rennplatz 15
D-49401 Damme (Germany)
Tel: +49-5491-2090
E-mail: info@ehdimaging.de

Electrical Specifications

Power requirement	5 VDC via USB cable
I/Os	1 trigger input, 1 input /1 output
Data interface	Micro B
Power consumption	<3.5W @5V

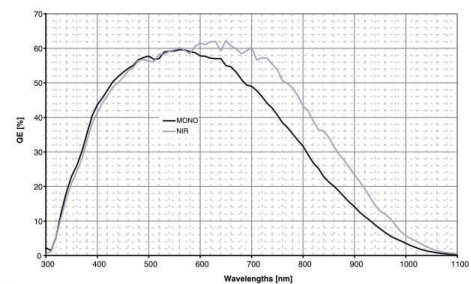
Environmental Specifications

Operating temp.	0°C ~ +45°C
Storage temp.	-20°C ~ +70°C
Operating humidity	10% ~ 80%

Optical Specifications

Lens mount	No-mount S/C-mount (optional)
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Spectral Response



VEN-134-90U3M-D NIR

For more information please see : www.ehd.de