

## Produktdaten:

# Merkur Line Scan Camera

Messen  
Prüfen  
Kontrollieren  
Sortieren  
Positionieren  
Vollständigkeitskontrolle  
Vorhandenseinskontrolle  
Oberflächeninspektion  
Teileprüfung  
Werkzeugvoreinstellung  
3D Sehen  
3D Erkennung  
Robot Vision  
Markierungskontrolle  
Koplanarität  
BGA-Prüfung  
Konturprüfung  
Fehler- und Verschmutzungserkennung  
OCR / OCV  
Zeichenerkennung  
Code Lesen  
Faden- und Stoffprüfung  
Papier- und Folienprüfung  
Metallprüfung  
Displayprüfung LCD, LED, OLED  
Mustervergleich  
Blasenkontrolle  
Robotersteuerung  
Bohrer Vermessung  
Thermografie  
Plastik-Inspektion  
2D  
**und vieles mehr...**



## Description:

The Merkur series is a smart line scan camera from AIC.

The smart camera has a FPGA and IP Core for the programming of the FPGA.

The Merkur line scan camera is an efficient solution for the inspection of endless materials such as steel bands, paper webs and glass sheets, etc.

Therefore Merkur can be used for applications and industries such as:

- the printing industry
- for the production of paper,
- when producing steel sheets, as well as
- in textile production, to detect and classify flaws in the material.

For example steel sheets are used differently according to their quality. The image processing makes it possible that the flawless parts of steel sheet is used for the bonnet and the doors and the sheet with small flaws is used for the underbody.

You can find more information on our website: [www.evt-web.com](http://www.evt-web.com).

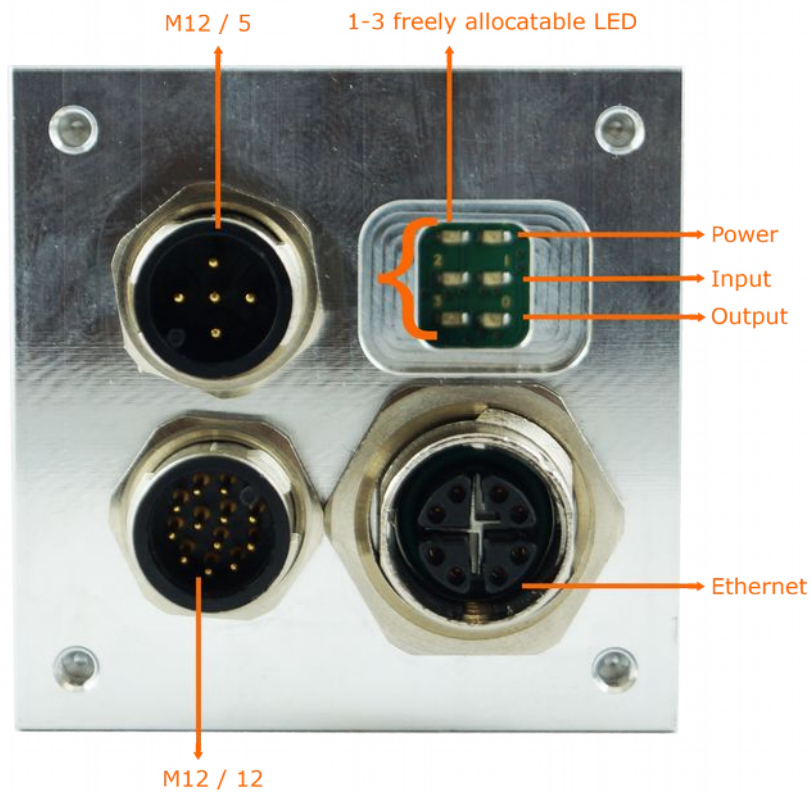
Please call us if you have any questions: **+49 (0) 721 668 004 23 0**

## Technical Data

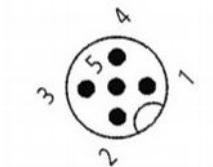
<b>Operating System</b>	Linux
<b>Processor</b>	Dual Core 800 MHz or 1.5 GHz optionally Myriad 2
<b>Interface</b>	GigE (PoE)
<b>Interface Option</b>	UART, SPI, I <sup>2</sup> C
<b>Digital I/Os</b>	4/4 galvanically separated 24V
	3 freely programmable 24V tolerant
<b>SDK</b>	C++ to receive image data & for parameterization
<b>Labrary</b>	OpenCV, EVLib, etc.
<b>Option</b>	as network camera for image transfere

## Merkur line scan camera models

<b>Merkur Z xxx</b>	<b>Resolution</b>	<b>Processor</b>
MKR 1100 ZLS	2048 Pixel	DualCore 800 MHz
MKR 1101 ZLS	2048 Pixel	DualCore 800 MHz & Myriad 2 Deep Learning Processor
MKR 1200 ZLS	4096 Pixel	DualCore 800 MHz
MKR 1201 ZLS	4096 Pixel	DualCore 800 MHz & Myriad 2 Deep Learning Processor
MKR 1300 ZLS	2x2048 Pixel	DualCore 800 MHz
MKR 1301 ZLS	2x2048 Pixel	DualCore 800 MHz & Myriad 2 Deep Learning Processor
MKR 2100 ZLS	2048 Pixel	DualCore 1.5 GHz
MKR 2101 ZLS	2048 Pixel	DualCore 1.5 GHz & Myriad 2 Deep Learning Processor
MKR 2200 ZLS	4096 Pixel	DualCore 1.5 GHz
MKR 2201 ZLS	4096 Pixel	DualCore 1.5 GHz & Myriad 2 Deep Learning Processor
MKR 2300 ZLS	2x2048 Pixel	DualCore 1.5 GHz
MKR 2301 ZLS	2x2048 Pixel	DualCore 1.5 GHz & Myriad 2 Deep Learning Processor

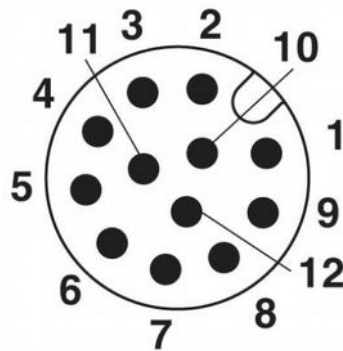


**Pin assignment M12 / 5-pin connector**



Pin	Cable assignment	Signal
1	Brown	IN+
2	White	GPIO
3	Blue	GND
4	Black	GPIO
5	Green / Yellow	GPIO

### Pin assignment M12 / 12-pin connector



Pin	Cable assignment	Signal
1	Brown	IO+
2	Blue	IO-
3	White	
4	Green	
5	Pink	
6	Yellow	
7	Black	OUT -
8	Gray	
9	Red	OUT+
10	Violet	
11	Gray / Pink	
12	Red / Blue	

### M12 / 8-pin Ethernet