

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.

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

Technical Data

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

Camera Data

Interface	GigE (PoE)
Resolution	2048 Pixel
Mono/Color	Mono
Line rate	50 kScan/s
Digital Input	4x Isolated
Digital Output	4x Isolated Push-Pull
Power Consumption	7 Watt
Power Requirements	12-24V
Synchronization	External, Software

Sensor

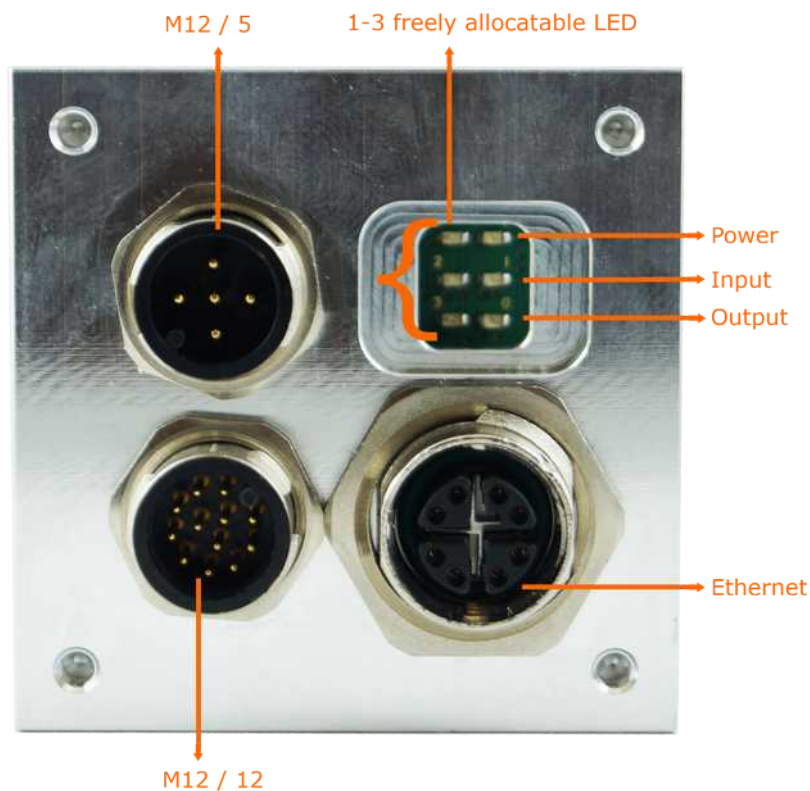
Resolution	2048 Pixel
Sensor Vendor	AMS (Awaiba)
Sensor	Dragster
Sensor type	CMOS
Sensor Size	14,3 mm
Pixel Size (H x V)	7 µm x 7 µm

Housing

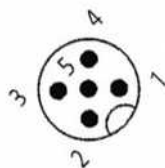
Housing Size (L x B x H)	123 x 47 x 47mm
Weight	300g
Lens Mount	C-Mount

Merkur line scan camera models

Merkur Z xxx	Resolution	Processor
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

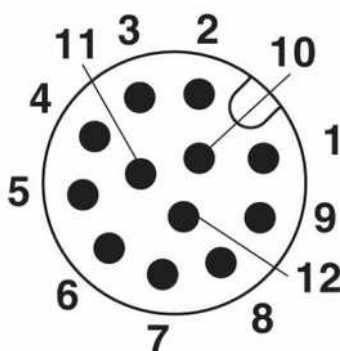


Pin assignment M12 / 5-pin connector



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