# SmartCam

## Optical Q-check

### Quality check during the forming process

The SmartCam evoVIU was mainly developed for detecting respectively measuring special quality characteristics during the material processing in the forming press. Thanks to the robust and thin design as well as the integrated fully configurable lighting and the TOF-autofocus the camera can take images from defined regions inline. Moreover the camera is equipped for outdoor use thanks to the IP67 protection. Through a big variety of different interfaces (Ethernet, Wifi, IO-Link, LTE with 5G-Ready) the results can be passed to the corresponding endpoint.

All these functions are combined through the platform evoVIU on the camera, a graphical fully web based intuitive tool for image progressing. It's also possible for an operator not specialised to image processing or programming to create and run new customised flows.

## At a glance:

- SmartCam with a robust design
- Fully configurable Internal lighting
- Various connection possibilities
- Autofocus with Integrated TOF-measurement
- Webbased App for configuration of evoVIU
- Integrated display for visualization of the current settings

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it's possible!

**evopro**

**Further information and videos can be found here:**

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# evoVIU Optical Q-Check

## PRODUCT FEATURES

### Variant - VIU05:

| | |
|---|---|
| Camera resolution (Image size): | 5 Mpixel  |  2560 x 1920 px   |   2,2µm   |   1 / 2,5"  | Colour |
| Focus distance: | < 35 mm bis 1200 mm |
| Colour of integrated lighting: | Individual camera lighting by Loxi-Lighting Module |
| Industry sectors: | Automotive |
| | Agricultre |
| | Wood industry |
| | Research & Education |

## TECHNICAL SPECIFICATIONS

### Dimensions in mm (L x W x H):

| | |
|---|---|
| Camera without plug: | 91,5 x 70,5 x 62,0 mm |

### Weight:

| | |
|---|---|
| Camera with integrated lighting: | 550 g |

### Electrical supply:

| | |
|---|---|
| Rated current (max): | 0,5 A |
| Nominal voltage: | 24 VDC |
| Wide range voltage input: | 9 bis 28 VDC |
| Max. power consumption: | 15 W |

### Processor:

i.MX8M QUAD-Core Cortex A53, 1.5 GHz + Cortex M4 266 MHz
4 GB DDR3 RAM – 16 GB eMMC     (Can be extended on request)

### Operating system:

| | |
|---|---|
| Embedded Linux | VIU–OS-2 |

### Interfaces:

| | |
|---|---|
| Electrical feed: | 5pol M12-Male B-coded |
| Triggering: | Hardware up to 24 VDC, software, protocoll |
| Communictation: | 8pol M12-Female X-coded / wireless |
| Choosable Com-Standards: | Ethernet (10 / 100 / 1000 Mbit) |
| | Wifi (802.11 ac / a / b / g / n) |
| | IO-Link 1v1 |
| | 5G-Ready (in progress) |
| | Profinet (in pipeline |
| | ISOBUS (in pipeline) |
| | Alternative interfaces on customer request |
| Internal lighting: | Exchangeable Loxi LED board with optional colour selection |
| External lighting: | Digital LED lighting for RGB colour scheme |