



### Product Specification

The Robot Image Capture Tool RCAM-5M-GE-50x4 contains all necessary components for the robot-supported image capture.

In addition with a CMOS camera with a high-resolution lens, the RCAM module is equipped with a digital lighting controller and a high-intensity Power-LED ring light.

The lighting controller is triggered synchronously via the robot's path control. With LED flashes down to 1  $\mu$ s, sharp images are captured even during fast movements.

The LED ring light is divided into four 90° sectors that can be controlled separately by the lighting controller. This allows even difficult lighting scenes to be optimally illuminated.

All evotron ring lights can be used.

The ISO 9409-1 standardised mounting plate of the RCAM module enables a simple and reliable mechanical attachment to all standardised robot arms.

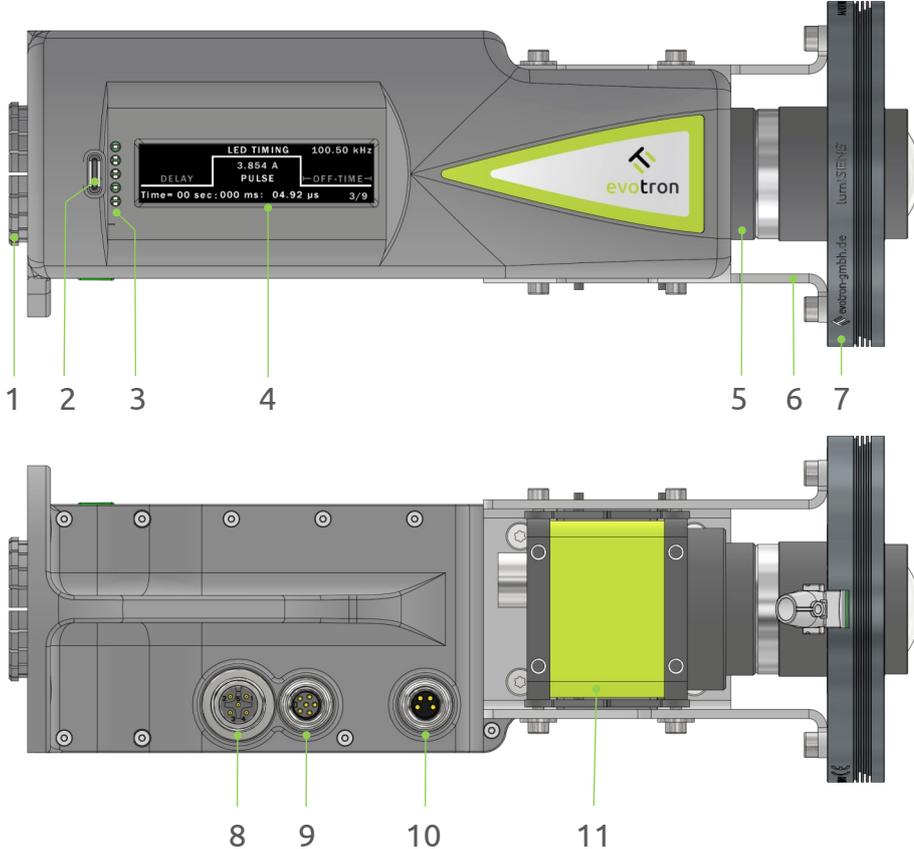
### Product Properties

- Compact robot image capture tool for all robot arms with a standardised mounting plate
- 5 MPixel GigE camera with Sony CMOS sensor
- Integrated digital controller for controlling the LED ring light and synchronising the image capture
- Powerful LED ring light with four freely programmable 90° LED sectors
- Flash times starting from 1  $\mu$ s and camera triggers are freely programmable with a resolution of 20 ns
- Direct signal connection to the robot controller (trigger, status messages, ...)
- Wireless configuration and remote maintenance via industrial WLAN interface
- No additional power supply required
- Easy mounting - ISO 9409-1 mounting plate





### Function Overview



- 1 Robot mounting plate according to ISO 9409-1
- 2 USB type C socket
- 3 LED status indicators
- 4 OLED display
- 5 Lens - C-mount
- 6 Mounting holder for LED lighting
- 7 Power-LED ring light
- 8 M12 socket Robot control connection
- 9 M8 - socket Camera connection
- 10 M8 - plug Connection LED ring light
- 11 CMOS matrix camera

### Technical Data

Parameter	min	nom	max
Supply voltage	12.0 V	24.0 V	30.0 V
Current consumption	160 mA	programmable	4.0 A
LED flash times @ 20 ns Steps	1 μs	programmable	85 s
Camera - Image sensor	Sony 2448 x 2048 Pixel, monochrome (other sensors on request)		
Lens	C-mount, (lens type on customer request)		
LED ring light	Blue 440 nm, $I_{con} = 1.0 A$ , $I_{Flash} = 4.0 A$ (other colours on request)		
Mounting connection to the robot	Mounting plate standardised according to ISO 9409-1-50-4-M6		
Dimensions (L x W x H)	187 mm x 78 mm x 85 mm		
Weight	470 g		

