

# Line Cameras

The line camera RAM-CAM series has a variety of high-performance modules with 60 MHz – 2.2 GHz frequency processing.

The resolution of the RAM-CAM series starts at 2.048 pixels in CD (Cross Direction). Higher resolution row headers are available from 4.096, 8.192 to 16.384 pixels. Thus, at the 4.096 line camera sampling rates from 20.000 to 200.000 lines / sec can be achieved easily. This allows a high resolution in MD (Machine Direction) at high production speeds.

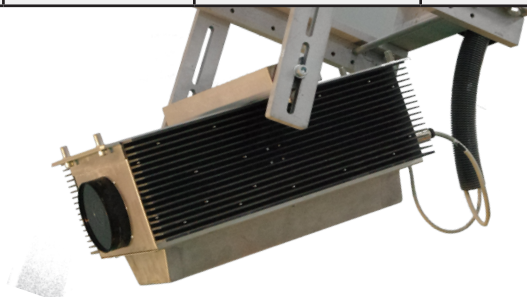
The calibration procedure allows the minimizing of the edge distortion at long lines. In connection with the process control software CAMEN the line camera can generate and process up to 256 thresholds. This allows a manufacturing of web goods with an optimally tuned defect detection.

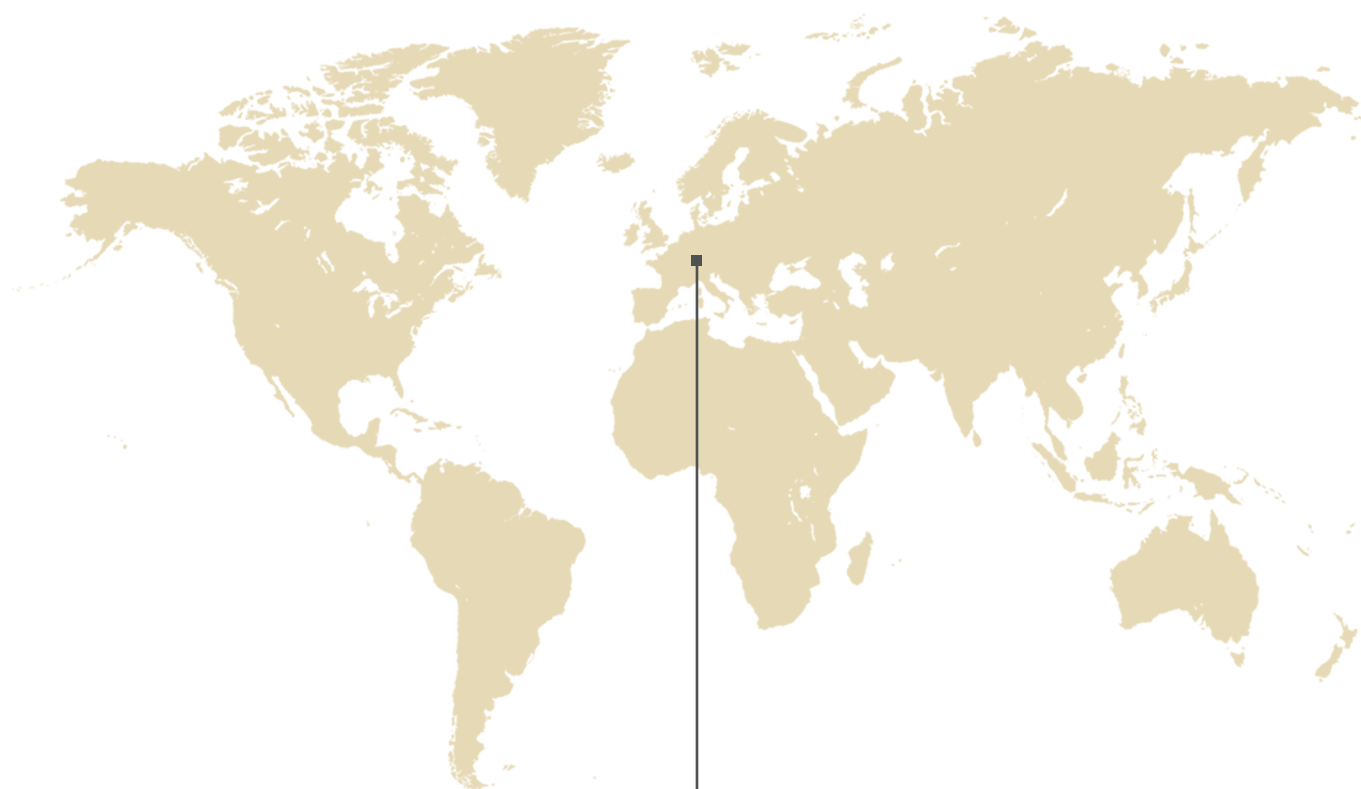
Only the relevant information and missing parts of the manufacturing process will be recognized, analyzed and displayed. The compact design of the line camera allows an optimal modularity. Camera head and processing unit are cooled passively via the side-mounted heat sink.

This robust line camera in the stainless steel design can be used in normal ambient temperature up to 50°C. In addition it is possible to compensate higher ambient temperatures by air and / or water cooling.

Our Line cameras are available with the following camera heads:

Camera	Pixel	Lines per second	shortest Exposure	Speed
RAM-CAM-2k240 RAM-CAM-2k440	2.048	40.000	25 µs	82 MPixel/s
RAM-CAM-2k4100	2.048	100.000	10 µs	205 MPixel/s
RAM-CAM-4k220 RAM-CAM-4k420	4.096	20.000	50 µs	82 MPixel/s
RAM-CAM-4k4100	4.096	100.000	10 µs	410 MPixel/s
RAM-CAM-8k240 RAM-CAM-8k440	8.192	40.000	25µs	320 MPixel/s
RAM-CAM-8k280 RAM-CAM-8k480	8.192	80.000	13 µs	640 MPixel/s
RAM-CAM-11k2200 RAM-CAM-11k4200	11.264	200.000	5 µs	2,2 GPixel/s
RAM-CAM-16k240 RAM-CAM-16k440	16.384	40.000	25 µs	640 MPixel/s
RAM-CAM-16k2100 RAM-CAM-16k4100	16.384	100.000	10 µs	1,6 GPixel/s
RAM-CAM-16k2140 RAM-CAM-16k4140	16.384	140.000	7,2 µs	2,2 GPixel/s





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