

CMOS GIGABIT ETHERNET CAMERA

Product Family Gigabit Ethernet Mini Camera

GK1185-C 5 megapixel / color
GK1185-M 5 megapixel / monochrome



Description

The Gigabit-Ethernet Mini Camera GK1185 designed for industrial and scientific image processing tasks. The camera is a part of the ABS CMOS camera family with different features for various applications. Typical fields of application for the 5 megapixel camera are high-resolution measurement technique, microscopy, documentation and surveillance.

The short-circuit-proof opto-decoupled digital outputs and opto-decoupled digital inputs are advantageous in order to use the camera under harsh environmental conditions.

The fast Gigabit Ethernet interface allows the transmission of a maximum of 9 noncompressed live images per second at full sensor resolution. Thus the user has the possibility to implement image processing applications without using an additional frame grabber. With the integrated high performance DSP developers may realize image processing or image pre-processing tasks directly in the camera.

The Gigabit Ethernet interface allows the user a cable length up to 100 m (directly connected). Inside a network the cable reach can be unlimited.

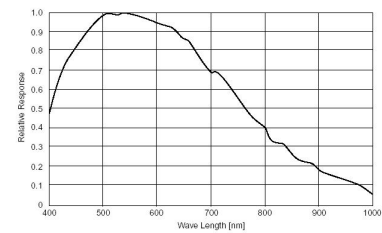
The camera can be optionally equipped with an optical fiber interface which extends cable reach up to 500 m.

Application Fields

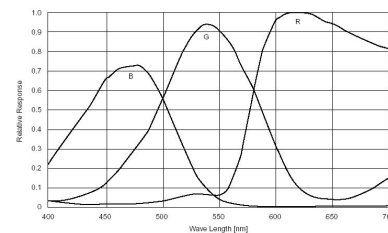
- high-resolution microscopy or measurement camera
- high-quality documentation camera / surveillance camera
- application under harsh industrial conditions
- stand-alone intelligent optical sensor

Sensor Sensitivity

GK1185-M



GK1185-C



Technical Specifications

Sensor	1/2,5", CMOS, progressive scan, monochrome or color (BAYER pattern)
Sensor resolution	2592 × 1944 pixels
Pixel size	2,2 µm × 2,2 µm
Frame rate camera	9 fps at 2592 × 1944 pixels 14 fps at 2048 × 1536 pixels 85 fps at 640 × 480 pixels
Shutter type	rolling shutter
Exposure time	102 µs to 3 s
ADC resolution	8 / 10 / 12 bit
Gain	1 to 128×
DSP power	1200 MMAC
Image memory	32 MB / 6 images (2592 × 1944 pixels)
Data interface	Gigabit Ethernet
Power supply	Power-over-Ethernet (PoE) or wide-range input 8 – 24 Volt
Power consumption	typically 5 W
Operating temperature	+0°C to +50°C
Storage temperature	-20°C to +70°C
Dimensions	31,4 mm × 45 mm × 95 mm
Weight	appr. 150 g (without lens)
Lens mounting	C-mount
Optional	<ul style="list-style-type: none">▪ digital input<ul style="list-style-type: none">2× opto-decoupled (programmable)1× TTL trigger input (fast)▪ digital output<ul style="list-style-type: none">2× opto-decoupled (programmable as strobe)▪ temperature sensor▪ RS232 connection▪ optical fiber connection (2× LC)

Dimensions

