

# HCC-1200CGE

High-Speed CMOS Color Camera  
with Gigabit Ethernet Interface



## Features

- 1280 (H) x 1024 (V) square pixels
- Up to 483 frames/sec. at full resolution
- 1.3 GByte internal memory
- Color sensor with Bayer filter
- Progressive Scan
- Digital output with up to 23 frames/sec. via Gigabit Ethernet
- 4/3" compatible sensor size

The **HCC-1200CGE** is the successor model of the HCC-1000 monochrome camera. At a resolution of **1280 x 1024** effective pixels and an image rate up to approx. **483 frames/sec.** at full resolution, the camera can record color images.

In order to acquire the data at that high speed, a RAM memory of **1.3 GByte** has been integrated directly into the **HCC-1200CGE**. Due to the **1.3 GByte** 1024 images can be stored at a full resolution - accordingly more at a lower resolution.

The camera naturally offers the possibility of reacting to a trigger event by e. g. storing 50 % before and 50 % after the trigger event. The choice of different operating modes and adjustments is effected via the Gigabit Ethernet interface.

Adjustments are e. g. the resolution, image rate, exposure time, number of frames during record, pre/post trigger and parameters for the image output. All parameters can be stored in an EEPROM and therefore are again available after switching-on.

Through the new **Gigabit Ethernet** interface a smooth application is guaranteed even in case of larger distances between notebook and camera. Due to the Gigabit Ethernet interface also a higher download speed is achieved. The Gigabit Ethernet digital output supplies the recorded images with an image rate up to 23 fps for further processing and storage on a PC.

Power and Control Input (15-pin D-SUB Jack)	
Pin	Function
1	+12V DC
2	
3	GND
4	
5	
6	
7	RXD (RS232)
8	TXD (RS232)
9	
10	Trigger Input (Opto Coupler)
11	
12	Reset Input (Opto Coupler)
13	
14	Strobe Out
15	

Gigabit Ethernet Connector (RJ-45 Jack)			
Pin	Function	Pin	Function
1	D1+	5	D3-
2	D1-	6	D2-
3	D2+	7	D4+
4	D3+	8	D4-

### Technical Data

- Resolution: 1280 (H) x 1024 (V) pixels  
1280 (H) x 512 (V) pixels  
1280 (H) x 256 (V) pixels
- Progressive scan
- Pixel size: 12 µm x 12 µm
- Active sensor size: 15.36 (H) mm x 12.29 (V) mm
- CMOS-sensor with Bayer color filter
- Image rate (standard): 1280 x 1024 up to 483 fps  
1280 x 512 up to 961 fps  
1280 x 256 up to 1893 fps
- Memory: 1280 MByte
- Sensor saturation: 100000 e
- Sensitivity: ~ 255 counts (saturation) at 300 LUX (2 ms exp.)
- Digital output: 8-bit, Gigabit Ethernet (1000Base-T)
- Frame system: 1030 lines
- Output frame rate: approx. 23 fps
- Output pixel clock: 33 MHz
- Power supply: + 12 V, approx. 0.8 A
- Ambient air temperature: 0° to 40° C
- Lens mount: C-mount
- CE standard
- Made in Germany

