# HXG20

Dual GigE, 2 Megapixel, Monochrome

Article number: 11080593

## Overview

- 2048 × 1088 px
- ams (CMOSIS) CMV2000
- 2/3″ CMOS
- 105 fps
- Dual Gigabit Ethernet




## Technical data

| | |
|---|---|
| **Sensor information** | |
| Sensor | ams (CMOSIS) CMV2000 |
| Mono/Color | Mono |
| Sensor type | 2/3″ CMOS |
| Shutter type | Global shutter |
| Resolution | 2048 × 1088 px |
| Pixel size | 5.5 × 5.5 µm |
| Exposure time | 0.02 … 1000 ms |
| **Acquisition formats** | |
| Image formats, interface frame rate max. | Full Frame, 2048 × 1088 px, max. 105 fps<br>Binning 2×1, 1024 × 1088 px, max. 211 fps<br>Subsampling 2×2, 1024 × 544 px, max. 421 fps |
| Image formats, aquisition frame rate max. (Burst Mode) | Full Frame, 2048 × 1088 px, max. 337 fps |
| Pixel formats | Mono8<br>Mono10<br>Mono12 |
| **Image preprocessing** | |
| Analog controls | Gain (0 … 12 dB)<br>Offset (0 … 255 LSB) |
| Color models | Mono |
| **Camera features** | |
| Synchronization | free running<br>trigger |

| | |
|---|---|
| **Camera features** | |
| Trigger sources | Hardware<br>Software<br>ActionCommand |
| Trigger delay | 0 … 2 sec, tracking and buffering of up to 512 trigger signals |
| Sequencer | Automated control for series of images using different sets of parameters |
| Sequencer parameter | Exposure time<br>gain factor<br>Output |
| Digital inputs | 3 input line (each with Debouncer) |
| Digital outputs | 3 output lines |
| Internal image buffer | 256 MB |
| **Interfaces and connectors** | |
| Data interface | Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type |
| Process interface | M8 / 8 pins |
| Power supply | via M8 / 3 pins |
| **Mechanical data** | |
| Lens mount | C-mount (F-mount on request) |
| Width | 52 mm |
| Height | 52 mm |
| Depth | 55 mm |
| Weight | ≤ 232 g |
| Material | housing: aluminum |

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2022-02-16

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## Technical data

### Electrical data

| | |
|---|---|
| Voltage supply range +Vs | 20 … 30 V DC (external power supply)<br>38 … 57 V DC (Power over Ethernet) |
| Power consumption | approx. 7,7 W @ 24 VDC and 105,0 fps<br>approx. 8,9 W @ 48 VDC (PoE) and 105,0 fps |

### Environmental conditions

| | |
|---|---|
| Operating temperature | +5 … +50 °C |

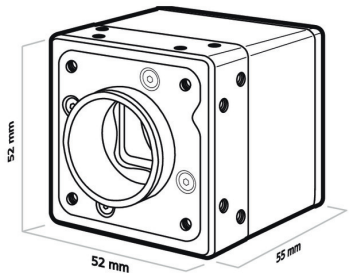
### Environmental conditions

| | |
|---|---|
| Humidity | 10 … 90 % (non-condensing) |
| Protection class | IP 40 |

### Conformity

| | |
|---|---|
| Conformity | CE<br>RoHS<br>FCC<br>EAC |

## Dimension drawing




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