



# PROGRES GRYPHAX<sup>®</sup> NAOS



## Technical data

Explore your micro universe with  
PROGrammable RESolutions 20 & 5 MPix.

### KEY FACTS

- 20 MPix microscope camera
- 30 fps at 5 MPix
- Dynamic range 71.8 dB
- USB 3.0 interface
- 1" sensor
- 12 bit
- Software included

### SYSTEM REQUIREMENTS

|                                    |  |
|------------------------------------|--|
| Personal computer                  | Intel i7 (Quad-Core) processor or comparable / 8 GB RAM      |
| Operating system                   | WIN 7 / 8 / 10   MAC El Capitan   LINUX Ubuntu 14.04 LTS     |
| Data interface                     | USB 3.0 integrated, no extra power supply needed             |
| Monitor resolution                 | 3840 x 2160 or higher  |
| Software (included in the package) | PROGRES GRYPHAX <sup>®</sup> (64 bit operating systems only) |

### IMAGE SENSOR

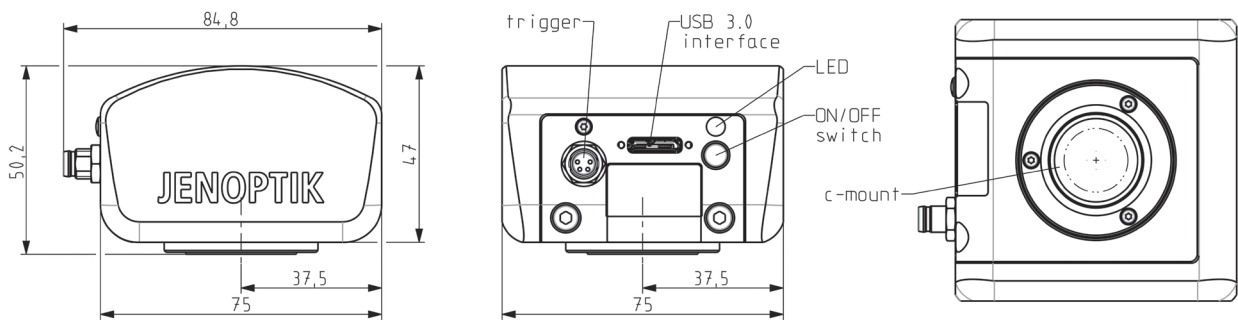
|  |  |
|--|--|
| Type   square   utilised sensor diagonal | SONY back-illuminated CMOS   1"   15.58 mm |
| Pixel dimensions                         | 2.4 x 2.4 $\mu$ m                          |
| Color or monochrome                      | Color                                      |
| Transfer method   shutter mode           | All pixel scan   Rolling shutter           |
| Full sensor resolution                   | 5400 x 3600 pixel                          |

### CAMERA

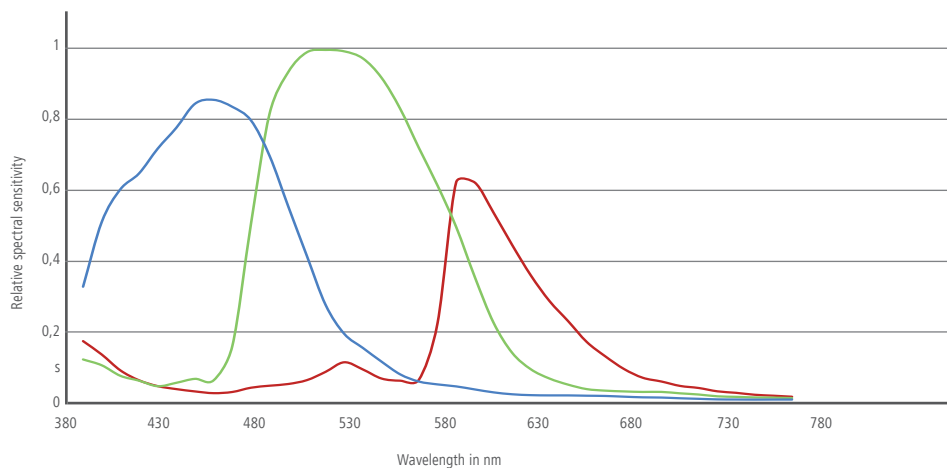
|   |   |
|---|---|
| Camera resolution in LIVE mode                  | 1800 x 1200 pixel (50 fps)   2700 x 1800 pixel (30 fps)   |
| Camera resolution in RECORD mode                | 1800 x 1200 pixel   2700 x 1800 pixel   5400 x 3600 pixel |
| Camera resolution in VIDEO mode                 | 1800 x 1200 pixel (30 fps)                                |
| Camera resolution in PANORAMA / Z-STACKING mode | 1800 x 1200 pixel up to 2700 x 1800 pixel                 |
| Exposure time min. - max.                       | 10 $\mu$ s - 10 s   |
| Gain  | Max. 10   |
| A/D conversion                                  | 12 bit (4096 grey values)                                 |
| Absolute sensitivity threshold*                 | 3.8 e-  |
| Saturation capacity*                            | 15.000 e-   |
| Dynamic range*                                  | 71.8 dB   |

\*based on EMVA 1288 standard compliance guidelines

|                                 |                                  |
|---------------------------------|----------------------------------|
| Filter                          | IR cut I optional clear-glass    |
| Hardware trigger                | OUT                              |
| Power switch                    | Yes                              |
| Optical interface               | C-mount                          |
| Power consumption               | Appr. 3 W                        |
| Dimensions                      | 85 mm x 75 mm x 50 mm            |
| Weight                          | Appr. 400 g                      |
| Storage options                 | -20°C up to +70°C                |
| Operating temperature           | +10°C up to +35°C non condensing |
| Warranty                        | 24 months                        |
| CE conformity / RoHS conformity | Yes                              |



MEASURED RELATIVE SPECTRAL SENSITIVITY\*:



PROGRES GRYPHAX® NAOS IS AN **ADVANCED** SOLUTION FOR:

- Life science
- Quality control
- Material science
- Forensics

\*based on EMVA 1288 standard compliance guidelines / effective spectral sensitivity on request