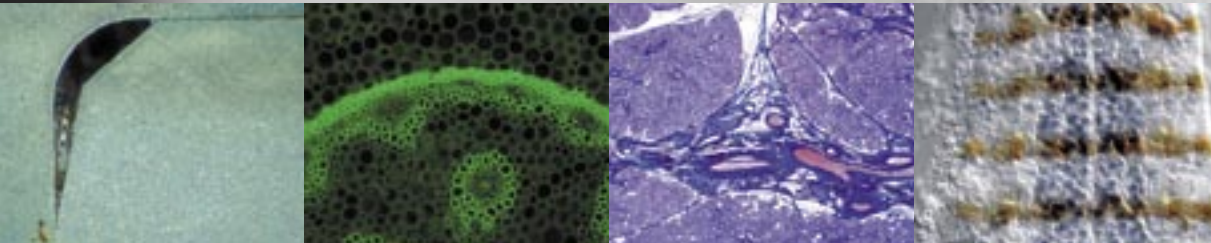


it's time to change your point of view



Precision in true color – ProgRes® C14^{plus}

The new **ProgRes® C14^{plus}** – our solution for your requirements to best color reproduction and highest resolution in all light microscope related contrast methods. Superior image quality and high flexibility are the outstanding features of this camera.

On account of the high precision Microscanning and Color Co-Site-Sampling the hermetically sealed and thermoelectrically cooled 1.4 mega pixel color sensor generates an image resolution of up to 12.5 mega pixels in true colors – without calculated interpolation.

The **ProgRes® C14^{plus}** offers high dynamic range at an excellent signal to noise ratio. Sensor, cooling, mechanic design and

sophisticated electronics including analogue gain perfectly fit together, delivering precise details in your images, digitized in 14 Bit per color channel. The selectable read out speed of the sensor, 25 MHz for fast live mode and fast image rates and 12.5 MHz for highest demands on image data, combine the optimum in workflow and best image quality in one single camera. Of course, the camera can be triggered.

The universal interfaces like FireWire®, C-Mount and Twain PlugIn offer easy adaptation of **ProgRes® C14^{plus}** to all current microscopes and PC's. The user-friendly **ProgRes®** Capture Software, as well as updates available online, are included in the scope of delivery.

ProgRes® C14^{plus}

- *Microscanning for up to 12.5 mega pixel resolution.*
- *Color Co-Site-Sampling for true colors.*
- *Selectable read out speed, high speed live image.*
- *Analogue gain for high dynamic range.*
- *Switchable cooling for low noise.*
- *User-friendly capture software.*



ProgRes®
C14^{plus}



ProgRes®
C14^{plus}



Application in contrast methods:

- Bright-Field
- Darkfield
- Phase contrast
- DIC
- Fluorescence
- Stereomicroscopy
- Repro-Photography

In the fields of:

Live-Science

- Genetics
- Microbiology
- Pathology
- Histology
- Hematology
- Cytology
- Zoology

Material sciences

- Quality control
- Geology
- Mineralogy
- Chemistry
- Semiconductor industry
- Industrial inspection

Forensics

Technical Data

CCD Sensor

2/3" 1.4 Mega pixel Progressive Scan CCD Image Sensor
Typ: Sony ICX285AQ
Active Area: 8.8 x 6.6 mm²

Pixel area

1360 x 1024 Pixel

Pixel size

6.45 x 6.45 µm

Read-out frequency

Switchable: 12 MHz and 24.5 MHz

IR cut-off filter

Hoya C-500S

Dynamic range

ca. 66 db/typical: >2000:1

Digital output

14 bit RGB

Exposure time

Up to 600 s

Gain

Analogue 1x to 8x

Image refresh rate

Up to 51 fps

Image resolution

Programmable Resolution

| | |
|----------------------|------------------------|
| 1360 x 1024 (1shot) | 272 x 204 (5x Binning) |
| 1360 x 1024 (4shot) | 340 x 256 (HFRM) |
| 2720 x 2048 (16shot) | 453 x 340 (3x Binning) |
| 4080 x 3072 (9shot) | 680 x 512 (HFRM) |
| 4080 x 3072 (36shot) | |

Cooling

Peltier-Element and fan (switchable)

Digital interface

FireWire® IEEE1394a (power & data)

Optical interface

C-Mount (0.63x TV Adaptor for microscope usage)

Tripod thread

Dual thread 3/8" and 1/4"

Software

ProgRes® Capture Software for MS Windows® 2000/XP (TWAIN and Stand-Alone)
SDK for MS Windows® and Apple Macintosh OS X

Hardware requirements

PC: Pentium IV 1.4 GHz or better; ≥512 MB RAM;
FireWire® (OHCI Standard)

MAC: G4 or better; 512 MB RAM

Power consumption

7 W

Weight

800 g / 1.76 lbs

Dimension

145 x 93 x 123 mm / 5.7 x 3.6 x 4.85 in (L x W x H)

Operating conditions

Temperature: +5°C to +35°C (41°F to 95°F)

Humidity: 5%–80%, not condensing

Registered in the U.S. Patent and Trademark Office.

This design and related specifications are subject to continuously ongoing development. We reserve the right to make changes in the interest of technical progress.

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