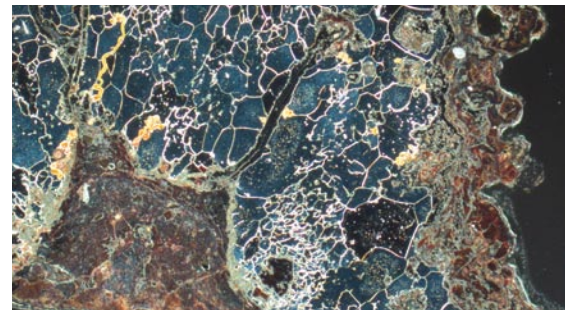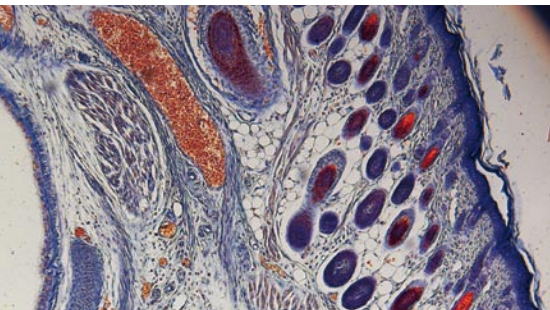# ProgRes® CCD Routine Cameras
## Visualize exact colors



## Superior color reproduction

Ease of operation, high resolution and excellent color reproduction are the distinguishing features of the cameras of the ProgRes® CCD Routine range.

With up to 7 mega pixels resolution, these cameras are ideal tools for high-quality image documentation and elementary image analysis. To facilitate precise focusing and positioning of specimens, a fast live image up to a rate of 50 fps is available in high resolution.

## High resolution in motion

The ProgRes® C7 combines a 7 mega pixels CCD sensor with a mechanical shutter, presented as the first offer of a microscope camera that requires but a single shot to deliver this high resolution with superior image quality, including of objects in motion.

ProgRes® CCD Routine cameras produce excellent digital images of finest color gradings for sophisticated applications. Each camera model can work in all contrast methods in light microscopy. ProgRes® C3 and ProgRes® C5 are optionally available with cooling.

## Benefits

- Perfect color reproduction
- Excellent image quality
- High resolution & fast live image
- Free ProgRes® capture software for easy operation
- Fit to any PC and microscope
- Safe investment
- Excellent price-performance ratio

## Digital Imaging

# ProgRes® CCD Routine Cameras
## Visualize exact colors

# Specifications

| ProgRes® camera type | C3 | C5 | C7 |
|---|---|---|---|
| Image sensor | 1/1.8″ CCD | 2/3″ CCD | 1/2.5″ CCD |
| Color / Monochrome | Color | Color | Color |
| Sensor resolution [max] | 2080 x 1542 pixel [3.2 Mpix] | 2580 x 1944 pixel [5.0 Mpix] | 3072 x 2300 pixel [7.1 Mpix] |
| Active sensor size [H x V] | 7.58 mm x 6.54 mm | 9.04 mm x 7.86 mm | 5.71 mm x 4.29 mm |
| Pixel size | 3.45 µm² | 3.4 µm² | 1.86 µm² |
| A / D conversion | 12 bit | 12 bit | 12 bit |
| Dynamic range | 61 dB | 61 dB \| 60 dB | 60 dB |
| Exposure times | 270 µs ... 180 s | 90 µs ... 180 s | 170 µs ... 5 s |
| Analog gain | 1x ... 12x (SDK) | 1x ... 16x (SDK) | 1x ... 16x (SDK) |
| Max. frame rate [image size in pixel] | 6 fps [2080 x 1542] 12 fps [1040 x 770] | 6 fps [2580 x 1944] 21 fps [646 x 488] | 18 fps [1228 x 920] |
| Image resolution  Binning: Progr. scan: | 2× ... 5× (SDK) 692 × 516 | 2× ... 5× (SDK) 2580 × 1944 \| 1290 × 972 \| 646 × 488 | 4x (SDK) 1228 x 920 |
| Cooling | optional | optional | no |
| Digital interface | FireWire a | FireWire a | FireWire a |
| Optical connection | C-Mount (0.5× or 0.63x TV pref., depends from the type of microscope) | C-Mount (0.63× TV pref.) | C-Mount (0.5× TV pref.) |
| Trigger In / Out | no | no | yes |
| Voltage supply | FireWire powered | FireWire powered | FireWire powered |
| Power consumption | approx. 6 W | approx. 6 W | approx. 6 W |
| Ambient conditions | Temperature: 0 °C ... +35 °C / Humidity: 5 % ... 80 %, non condensing | | |
| Storage conditions | Temperature: -20 °C ... +70 °C | | |
| Dimensions (L × W × H) | 89 mm × 84 mm × 93 mm | | |
| Weight | approx. 700 g | | |
| Application software | ProgRes® CapturePro for PC & MAC (TWAIN only for PC) | | |
| SDK | ProgRes® SDK for PC, MAC & Linux | | |
| External camera driver | available at: www.jenoptik.com/progres | | |
| Hardware requirements | PC: MS WIN XP/ Vista /WIN 7 \| Mac: OS X 10.4 or higher 3 GHz CPU, 1 GB RAM, 256 MB graphics, FireWire a, Multicore recommended | | |

## Fields of Application

Image analysis, documentation and archiving in micro- and macroscopy in the fields of:

- Material science, geology & mineralogy
- Life science, diagnostics
- Quality control
- Pathology & cell biology
- Forensics
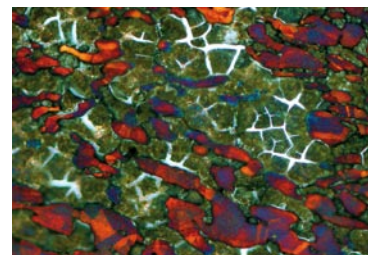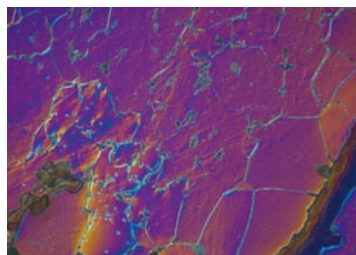


It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.