



ProgRes[®] Cameras
Perfect Digital Imaging



Optoelectronic Systems

Perfect Digital Imaging

A premium partner

The digital microscope cameras of the ProgRes® family are based on decades of experience in development and production of high-end solutions for digital imaging.

Jenoptik also offers its camera range as imaging modules for easy integration into a system solution requiring a reliable imaging component.

In addition to the standard product portfolio, Jenoptik also offers the development and production of customer-specific image processing systems based on extensive know-how in optics and precision mechanics and experience in various applications ensuring high levels of solution-oriented expertise for complex requirements in the field of digital processing.



Take your chance to ProgRes®



ProgRes® cameras are deployed in microscopy and macroscopy, in areas such as documentation, analysis and archiving, in life sciences, forensics, metallography and many other fields of material science. These cameras are suitable for all contrast methods in light microscopy and can be easily integrated into each laboratory – via C-Mount to any microscope and via USB 2.0/ FireWire interface to any PC or notebook. A broad range of camera types is available for various requirements ranging from fluorescence imaging in research or routine application to quality control in industry.

With a ProgRes® camera at hand you are ready to meet tomorrow's imaging challenges today!

The exact reproduction of colors and display of the finest details thanks to the high resolutions of ProgRes® cameras make them an outstanding solution for demanding analysis and reliable documentation. High frame rates provide fast live images, thus offering easy workflow and convenient use. In addition to their superior image quality, the benefits of ProgRes® cameras are ease of installation as well as convenient operation and not least the excellent price-performance ratio.

ProgRes[®] CapturePro Software

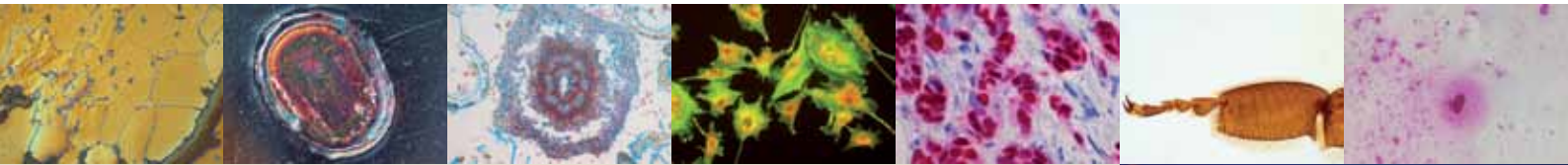
Advance your image results

The powerful capture software ProgRes[®] CapturePro is included in the delivery of each ProgRes[®] camera free of charge.

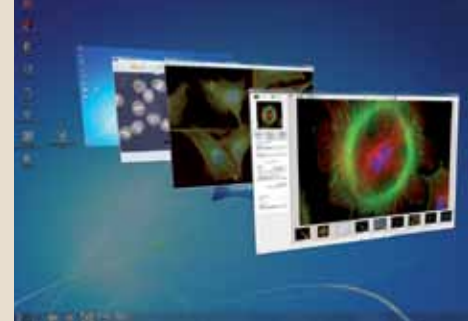
Whether for simple image documentation or advanced image processing: with merely three mouse clicks you can optimize your images – thanks to the automatic functions included in ProgRes[®] CapturePro software.

CapturePro supports the excellent quality of ProgRes[®] microscope cameras and delivers optimal image quality and reproducible results.

Calibrations and image correction matrices, e.g. shadings, can be individually generated for your camera and are saved in your own user profile.



Straight-line workflow with ProgRes[®] CapturePro



Features

- Continuous automatic exposure control
- Automatic white balance
- Multi-focus (Z-Stacking)
- Multi-fluorescence mode
- Measurement capabilities
- Image annotations
- Time-lapse
- Shading calibrations
- Multi-camera operation
- Individual user profiles

Benefits

- Included free of charge
- Ease of use
- Full support of Multicore-processors
- Full WIN support for all cameras (even WIN 7, 32 and 64 Bit)
- MAC support for FireWire cameras
- Free software updates for registered users
- Stand-alone software and TWAIN Plug-In
- Optional software development kit (SDK)

ProgRes[®] CMOS Cameras

Experience the highest performance



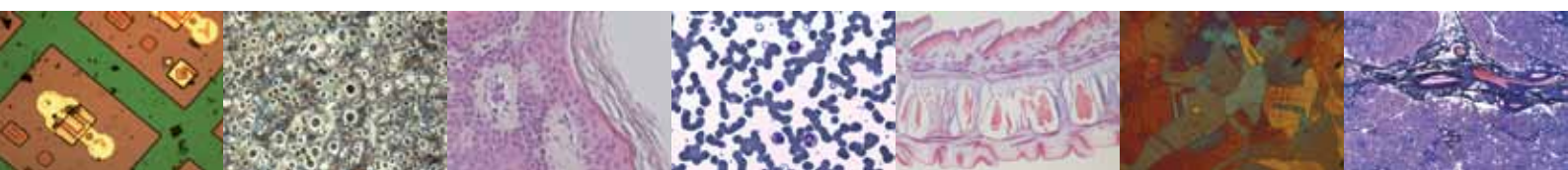
Designed to provide maximum versatility and cost-effectiveness, the digital microscope cameras of the ProgRes[®] CMOS range enable quick and precise setting of specimen and microscope.

The fast live images meet the requirements of professionals, and the outstanding CMOS technology

and the high resolutions make these ProgRes[®] cameras the first choice imaging solution for usage in education institutes and training labs.

Benefits

- High frame rates
- Good color reproduction



Excellent color reproduction | Outstanding image quality | High resolution | C-Mount |

Specifications

| ProgRes [®] camera type | CT3 | CT3 USB | CT5 USB |
|---|---|--|--|
| Image sensor | 1/2" CMOS 3.15 Mpix | 1/2" CMOS 3.15 Mpix | 1/2.5" CMOS 5 Mpix |
| Color/Monochrome | Color | Color | Color/Monochrome |
| Pixel size [W x H] | 3.2 µm x 3.2 µm | 3.2 µm x 3.2 µm | 2.2 µm x 2.2 µm |
| Dynamic range | 58 dB | 58 dB | 66 dB |
| Exposure times | 50 µs ... 3 s | 100 µs ... 3 s | 150 µs ... 3 s |
| Max. live frame rate [image size in pixel] | 10 fps [2048 x 1536] 26 fps [1024 x 768] | 9 fps [2048 x 1536] 35 fps [1024 x 768] | 5.5 fps [2592 x 1944] 17 fps [1296 x 972] |
| Cooling | no | no | no |
| Digital interface | FireWire a | USB 2.0 | USB 2.0 |
| Trigger In/Out | no | yes | yes |
| Voltage supply | FireWire powered | USB powered | USB powered |
| Dimensions [L x W x H] | 89 mm x 84 mm x 93 mm | | |
| Weight | approx. 700 g | | |

ProgRes[®] CCD Routine Cameras

Visualize exact colors



Excellent color reproduction and high resolution are the distinguishing features of the cameras of the ProgRes[®] CCD Routine range. Providing excellent digital images of the finest color gradings, they offer sophisticated use.

With up to 7 megapixel resolution, these cameras are ideal tools for high-quality image documentation and

elementary image analysis. ProgRes[®] C3 and ProgRes[®] C5 are optionally available with cooling.

Benefits

- Perfect color reproduction
- Excellent image quality
- High resolution & fast live image



Available as imaging modules for system integrators | Free ProgRes[®] capture software for easy operation

Specifications

| ProgRes [®] camera type | C3 | C5 | C7 |
|---|--|---|------------------------|
| Image sensor | 1/1.8" CCD 3.2 Mpix | 2/3" CCD 5.0 Mpix | 1/2.5" CCD 7.1 Mpix |
| Color/Monochrome | Color | Color | Color |
| Pixel size [W x H] | 3.45 µm x 3.45 µm | 3.4 µm x 3.4 µm | 1.86 µm x 1.86 µm |
| Dynamic range | 61 dB | 61 dB 60 dB | 60 dB |
| Exposure times | 270 µs ... 180 s | 90 µs ... 180 s | 170 µs ... 5 s |
| Max. live 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] |
| Cooling | optional | optional | no |
| Digital interface | FireWire a | | |
| Trigger In/Out | no | no | yes |
| Voltage supply | FireWire powered | | |
| Dimensions [L x W x H] | 89 mm x 84 mm x 93 mm | | |
| Weight | approx. 700 g | | |

ProgRes[®] CCD *SpeedXT^{core}* Cameras Breakthrough in CCD-Speed

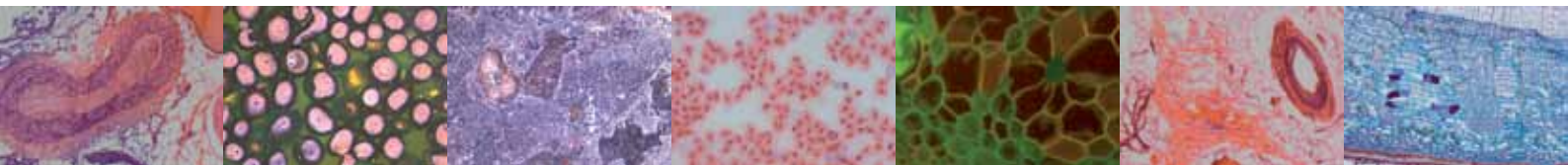


Jenoptik's innovative *SpeedXT^{core}* technology provides an improvement in live image speed of high-resolution CCD cameras. The user is enabled to facilitate precise focusing and very easy positioning of specimens without interlace effects – a clear advantage in the analysis of moving objects and for optimal task management in laboratories. Easy connection and data transfer is ensured by USB 2.0 interface.

Brilliant images in proven Jenoptik CCD quality with superior color reproduction can be achieved immediately through an overall faster workflow.

Benefits

- Outstanding live image speed
- Excellent image quality & high resolution
- Perfect color reproduction



| Analogue gain | Safe investment | Excellent price-performance ratio | Fast live image | Full WIN 7

Specifications

| ProgRes [®] camera type | <i>SpeedXT^{core} 3</i> | <i>SpeedXT^{core} 5</i> |
|---|---|--|
| Image sensor | 1/1.8" CCD 3.2 Mpix | 2/3" CCD 5.0 Mpix |
| Color/Monochrome | Color | Color |
| Pixel size [W x H] | 3.45 µm x 3.45 µm | 3.4 µm x 3.4 µm |
| Dynamic range | 61 dB | 61 dB |
| Exposure times | 30 µs ... 180 s | 30 µs ... 180 s |
| Max. live frame rate [image size in pixel] | 17 fps [2080 x 1542] 30 fps [1040 x 770] | 13 fps [2580 x 1944] 45 fps [640 x 484] |
| Cooling | no | no |
| Digital interface | USB 2.0, USB 3.0 conform | |
| Trigger In/Out | no | |
| Voltage supply | USB powered | |
| Dimensions [L x W x H] | 89 mm x 84 mm x 93 mm | |
| Weight | approx. 700 g | |

ProgRes[®] CCD Research Cameras

Discover optimal image quality



All color and monochrome cameras of the ProgRes[®] CCD Research camera range have been optimized for applications in exacting tasks. Especially when working with low-light specimens, the high sensitivity of these models produces brilliant images.

Expeditious and smooth operation is provided by sensitive CCD sensors, optionally available with cooling, offering high frame rates and a broad dynamic range.

The sophisticated microscanning technology provided in the scanning ProgRes[®] cameras allows for capturing images of up to 12.5 megapixel, even in true color.

Benefits

- Perfect color reproduction
- Outstanding image quality
- Highest resolution & fast live image
- High sensitivity & low noise



support | USB / FireWire | Ease of installation | Free software updates for registered users

Specifications

| ProgRes [®] camera type | CF/MF | CF/MF USB | CF ^{cool} /MF ^{cool} | CF ^{scan} /MF ^{scan} /C14 ^{plus} |
|--|--|--|---|---|
| Image sensor | 2/3" CCD 1.4 Mpix progressive scan | 2/3" CCD 1.4 Mpix progressive scan | 2/3" CCD 1.4 Mpix progressive scan | 2/3" CCD 1.4 Mpix progressive scan [up to 12.5 Mpix] |
| Color/Monochrome | Color/Monochrome | Color/Monochrome | Color/Monochrome | Color/Monochrome |
| Pixel size [W x H] | 6.45 μm x 6.45 μm | 6.45 μm x 6.45 μm | 6.45 μm x 6.45 μm | 6.45 μm x 6.45 μm |
| Dynamic range | 65 ... 67 dB | 65 ... 67 dB | 67 ... 69 dB | 67 ... 69 dB |
| Exposure times | 94 μs ... 180 s | 20 μs ... 180 s | 94 μs ... 300 s | 94 μs ... 300 s ... 600 s [C14 ^{plus}] |
| Max. live frame rate [image size in pixel] | 13 fps [1360 x 1024] 51 fps [680 x 512]* | 15 fps [1360 x 1024] 26.5 fps [680 x 512] | 13 fps [1360 x 1024] 51 fps [680 x 512]* | 13 fps [1360 x 1024] 51 fps [680 x 512]* |
| Cooling | no | no | yes | yes |
| Digital interface | FireWire a | USB 2.0 | FireWire a | FireWire a |
| Trigger In/Out | yes | | | |
| Voltage supply | FireWire powered | USB powered | FireWire powered | FireWire powered |
| Dimensions [L x W x H] | 89 mm x 84 mm x 93 mm [USB] / 145 mm x 93 mm x 123 mm [FireWire] | | | |
| Weight | approx. 800 g | approx. 700 g | approx. 800 g | approx. 800 g |

* HFRM = High Frame Readout Mode

The Scitech logo, featuring a green curved line above the word "Scitech" in a large, bold, sans-serif font, with "imaging specialists" in a smaller font below it. Below the text is a row of seven colored squares: yellow, orange, red, green, blue, light blue, and dark blue.

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