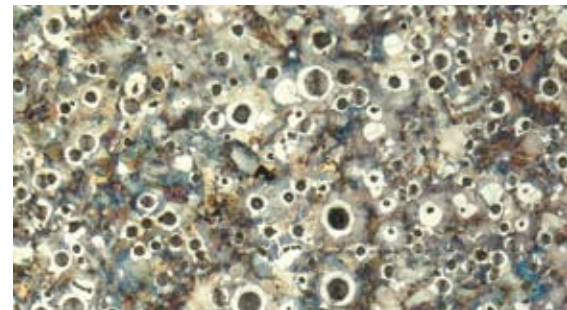
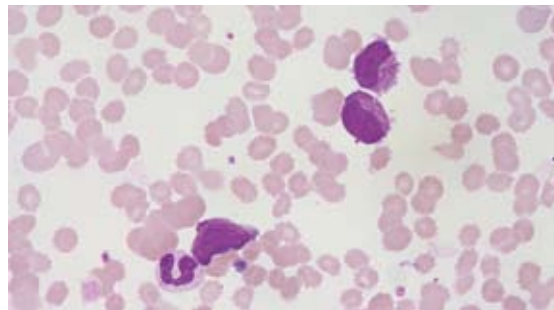




ProgRes[®] CMOS Cameras

Experience the high performance



Fast live image

Designed to provide highest versatility and cost-effectiveness, the cameras of the ProgRes[®] CMOS range allow for quick and precise setting of specimen and microscope, and hence provide comfortable operation. Fast live images meet the requirements of professionals, and the outstanding CMOS technology makes these ProgRes[®] cameras the first choice imaging solution for usage in education institutes and training labs.

High speed and high resolution

The new generation of ProgRes[®] CMOS based USB 2.0 and FireWire cameras offers rapid image refresh rates of up to 90fps@VGA. Resolutions from 1 up to 5 mega pixels allow for optimal performance in low as well as high magnifications.

Due to the large pixel size of 5.2 μm^2 the ProgRes[®] CT1 delivers high frame rates of 30 fps in full resolution and offers high sensitivity for best image quality.

Benefits

- High frame rates
- Good color reproduction
- Free ProgRes[®] capture software for easy operation
- Fit to any PC and microscope
- Safe investment
- Excellent price-performance ratio

ProgRes® CMOS Cameras

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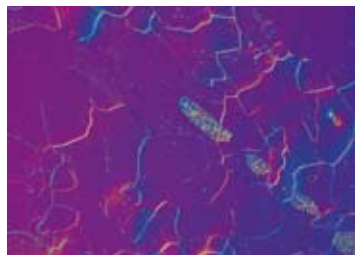
Specifications

ProgRes® camera type	CT1	CT3	CT5
Image sensor	1/2" CMOS	1/2" CMOS	1/2.5" CMOS
Color / Monochrome	Color / Monochrome	Color	Color / Monochrome
Sensor resolution [max]	1280 x 1024 pixel [1.3 Mpix]	2048 x 1536 pixel [3.15 Mpix]	2592 x 1944 pixel [5 Mpix]
Sensor size [H x V]	6.66 mm x 5.32 mm	6.55 mm x 4.92 mm	5.70 mm x 4.28 mm
Pixel size	5.2 µm ²	3.2 µm ²	2.2 µm ²
A / D conversion	10 bit	10 bit	12 bit
Pixel clock	48 MHz	48 MHz 36 MHz	48 MHz
Dynamic range	68 dB	58 dB	68 dB
Exposure times	60 µs ... 0.5 s	50 µs ... 3 s	75 µs ... 3 s
Analog gain	1x ... 8x	1x ... 8x	1x ... 8x
Max. frame rate [image size] typical via USB 2.0 ¹⁾	30 fps [1280 x 1024 pixel] 20 fps [1280 x 1024 pixel]	12 fps [2048 x 1536 pixel] 9 fps [2048 x 1536 pixel]	9 fps [2592 x 1944 pixel] 5 fps [2048 x 1536 pixel]
Image resolution Binning:	no	2x, 3x	2x, 4x
Cooling	no	no	no
Digital interface	USB 2.0	USB 2.0 / FireWire a	USB 2.0
Optical connection	C-Mount (0.5x TV pref.)		
Trigger In / Out	Synchronization with external devices; configurable via control software		
Voltage supply	USB powered	USB / FireWire powered	USB powered
Power consumption	approx. 2 W	approx. 1.9 W 2.5 W	approx. 1.8 W
Ambient conditions	Temperature: +5 °C ... +55 °C / Humidity: 5 % ... 80 %, not condensing		
Stock conditions	Temperature: -20 °C ... +70 °C		
Dimensions (L x W x H)	89 mm x 84 mm x 93 mm		
Weight	approx. 700 g		
Software	ProgRes® CapturePro PC / MAC (TWAIN for PC only); ProgRes® SDK		
External camera driver	available at: www.progres-camera.com		
Hardware requirements	PC: MS WIN 2000 / XP / Vista Mac: OS X 10.4 or higher 3 GHz CPU, 1 GB RAM, 64 MB graphics, FireWire a or USB 2.0		
¹⁾ 8-Bit-Transfer			

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
- Education and teaching



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



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