ProgRes® CCD *SpeedXT core* Cameras

Reach your goal faster with *SpeedXT core* technology

Breakthrough in CCD speed

ProgRes® *SpeedXT core 3* and *SpeedXT core 5* are the first to feature Jenoptik's innovative *SpeedXT core* technology providing very fast live speed rates of 17 fps / 13 fps in full resolution of 3 / 5 mega pixel. Due to the enhancement of the live image speed in combination with the high resolution the user is enabled to facilitate precise focusing and easy positioning of specimens without interlace effect in a more efficient way - a clear advantage in the analysis of moving objects and routine work in laboratories.
Exposure times up to 180 s ensure optimum captured images, also under low-light conditions. The maximum possible color depth is 36 bit.

Superior color reproduction

An excellent color reproduction as well as ease of installation & operation are other distinguishing features of the cameras.

The software can be easily and quickly installed, enabling users to immediately capture brilliant images in excellent, acknowledged Jenoptik quality providing finest color gradings for sophisticated applications.

Benefits

- *SpeedXT core* – outstanding CCD live image speed for easy focussing
- Excellent image quality and high resolution
- Perfect color reproduction
- ProgRes® Capture software for easy operation included
- Easy and fast installation
- Excellent price-performance ratio

Reach your goal faster with *SpeedXT core* technology – faster installation, faster focussing, faster capture – in proven Jenoptik CCD quality!

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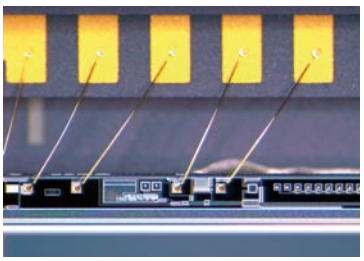
Specifications

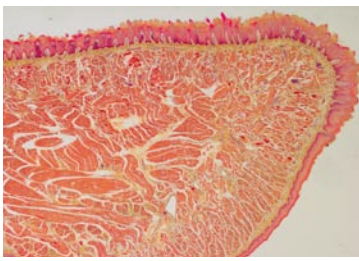
ProgRes® camera type	*SpeedXT core 3*	*SpeedXT core 5*
Image sensor	1/1.8˝ CCD	2/3˝ CCD
Color / Monochrome	Color	Color
Sensor resolution [max]	2080 x 1542 pixel [3.2 Mpix]	2580 x 1944 pixel [5.0 Mpix]
Active sensor size [H x V]	7.58 mm x 6.54 mm	9.04 mm x 7.86 mm
Pixel size	3.45 µm²	3.4 µm²
A / D conversion	12 bit	12 bit
Dynamic range	61 dB	61 dB
Exposure times	30 µs ... 180 s	30 µs ... 180 s
Analog gain	1x ... 5x	1x ... 5x
Max. 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]
Image resolution Binning: Progr. scan:	2× ... 5× (SDK) 688 x 512	2× ... 5× (SDK) 2576 × 1944 | 1288 × 972 | 640 × 484
Cooling	no	no
Digital interface	USB 2.0, USB 3.0 conform	USB 2.0, USB 3.0 conform
Optical connection	C-Mount (0.5× or 0.63x TV pref., depends from the type of microscope)	C-Mount (0.63× TV pref.)
Trigger In / Out	no	no
Voltage supply	USB powered	USB powered
Power consumption	approx. 2.5 W	approx. 2.5 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 (TWAIN only for PC); no MAC support	
SDK	ProgRes® SDK for PC; no MAC & Linux support	
External camera driver	available at: www.jenoptik.com/progres	
Hardware requirements	PC: MS WIN XP/ Vista /WIN 7 3 GHz CPU, 1 GB RAM, 256 MB graphics, USB 2.0, USB 3.0 conform, 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





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