



# Digital Cameras

## AxioCam HR - Technical Specification

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1. CCD Basic Resolution	1388 x 1040 = 1.4 megapixels					
2. Pixel Size	6.45 µm x 6.45 µm					
3. Sensor Size	8.9 mm x 6.7 mm, equivalent to 2/3"					
4. Spectral Sensitivity	<b>HRc:</b> approx. 400 - 700 nm with BG 40 IR-blocking filter <b>HRm:</b> approx. 350 - 1000 nm with BK 7 cover glass					
5. Dynamic Range	Typical > 2200 : 1 at < 8 e readout noise					
6. Full Well	Typical 17.000 e					
7. Resolution modes (S/W & RGB)	<b>Horiz.</b>	<b>x</b>	<b>Vert.</b>			
	276	x	208	(Binning 5 x 5, RGB)		
	346	x	260	(Binning 4 x 4, s/w)		
	462	x	346	(Binning 3 x 3, RGB)		
	694	x	520	(Binning 2 x 2, s/w)		
	1388	x	1040	(Einzelbelichtung) <sup>Ü1</sup>		
	1388	x	1040	(Co Site Sampling) <sup>*2</sup>		
	2776	x	2080	(Co Site Sampling) <sup>*2</sup>		
	4164	x	3120	(Co Site Sampling) <sup>*2</sup>		
8. Frame Rates <sup>*3</sup>	<b>Images/Second (20 ms Exp.)</b>	<b>Binning</b>	<b>Horiz.</b>	<b>x</b>	<b>Vert.</b>	
AxioCam HRc	5	1	1388	x	1040	
	17	3	462	x	346	
	26	5	276	x	208	
AxioCam HRm	5	1	1388	x	1040	
	11	3	694	x	520	
	15	5	462	x	346	
9. Sub Area Readout (ROI)	Freely adjustable					
10. Raw data rate	Max. 20 MB/s					
11. Exposure times	1ms to several minutes					
12. Digitisation	14 Bit / 10 Mhz pixelclock					
13. Interface	PCI interface card					
14. Optical Interface	C-Mount					
15. Signal Output Connector	TTL compatible trigger In/Out with ajustable polarity and delay time					
16. Housing	11 cm x 8 cm x 6.5 cm, 500g, aluminium, blue anodized, cooling fins, ¼" tripod connector					
17. Objective depth of impression	Max. 5 mm					
18. Protective cover glass	BK 7 for HRm, annealed, IR-blocking filter Bg 40 for HRc, annealed					

19. Cooling	Single stage Peltier
20. Max. File Size per image	Ca. 78 MB at 4164 x 3120 bei 3 x 14 Bit (RGB)
21. Product Types	Color and monochrome
22. Supportet Operating System	Microsoft®Windows 2000 Professional, Microsoft®Windows XP Professional
21. Registration	CE, cUL for Canada und USA
22. Power Supply	12 V DC, 1 A, 220 V/110 V

\*1 Single Exposure: Color Images with interpolated color quality, standard resolution for each color channel.

\*2 Color co-site Sampling: Color quality comparable with 3 chip color camera, high resolution for each color channel.

\*3 Frame rates were reached in optimal hardware environment and at a exposure time of 20 ms.

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