



Leica CW4000 Automated Karyotyping

Combining innovative imaging software and advanced digital camera technology, the Leica CW4000 karyotyping application provides a breakthrough in cytogenetic image quality. With up to 12 Mpixel image resolution, more detail is evident than in comparable images captured with standard video CCD technology. The CW4000 karyotyping application module is available in a number of configurations that are cost effective and yet provide the latest in imaging technology. Leica CW4000 Automated Karyotyping offers:

- High speed karyotyping, enhanced by superior segmentation tools, and neural network classification techniques. This ensures unrivalled accuracy, saving you time whilst increasing throughput.
- High resolution karyotyping which provides the ability to clearly visualise small banding details that may not be obvious with standard resolution imaging.
- An image editor capable of producing pedigree analysis diagrams and partial karyotypes providing a professional presentation of data.
- Complete compatibility with Leica DC Cameras to offer up to 12 Mpixel resolution, providing more confidence in your results.

Leica CW4000

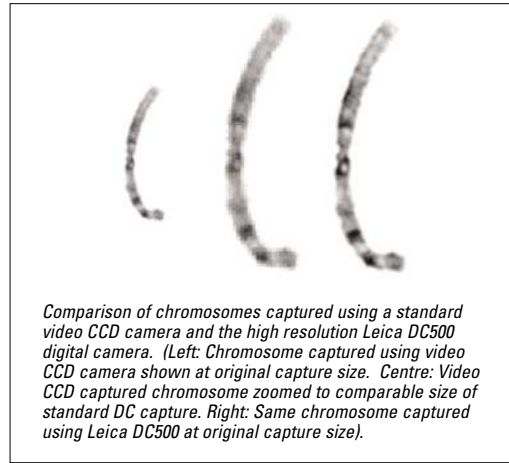
Standard & High Resolution
Automated Karyotyping

Leica

MICROSYSTEMS

Additional Benefits:

- A high resolution solution for both human and non-human chromosome analysis.
- The advanced image handling ensures that no permanent elimination of material from a thresholded metaphase is required.
- Offers superior metaphase segmentation, which is faster and more accurate. Less user interaction is required, so time savings increase.
- Acquisition of brightfield and fluorescent metaphases.
- Import .tif images from any original source for further analysis.



Comparison of chromosomes captured using a standard video CCD camera and the high resolution Leica DC500 digital camera. (Left: Chromosome captured using video CCD camera shown at original capture size. Centre: Video CCD captured chromosome zoomed to comparable size of standard DC capture. Right: Same chromosome captured using Leica DC500 at original capture size).

Image overleaf – Sample courtesy of Dr Lionel Willatt, Department of Cytogenetics, Addenbrookes Hospital, Cambridge, UK.

	Complete Cytogenetics System CW4000	System for High Resolution MFISH	System for High Resolution CGH	System for High Resolution Karyotyping	Review System	Main System	System for Standard FISH	System for Standard Karyotyping
Camera	*Digital DC500	*Digital DC350F	*Digital DC350F	*Digital DC350F	No Camera	Video CCD	Video CCD	Video CCD
Applications	KARYO	KARYO	KARYO	KARYO		KARYO		KARYO
	FISH	FISH	FISH			FISH	FISH	
	MFISH	MFISH	CGH			CGH		
	CGH							
	MFISH Filterset							
Options		CGH	MFISH	FISH	KARYO		CGH	FISH
					FISH			
					CGH			
					MFISH			

* Alternative cameras available, including Photometrics Sensys, CoolSNAP fx and Hamamatsu Orca.

Leica CW4000 is the most powerful cytogenetics imaging solution because it is:

- Designed in close collaboration with leading cytogeneticists.
- A fully networkable system that harnesses the needs of all laboratory throughput levels.
- Compatible with Leica Digital Cameras offering a high resolution solution.
- Able to take full advantage of the automated Leica Microscope facilities.
- Designed to meet the stringent archiving and security measures required for patient data.

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