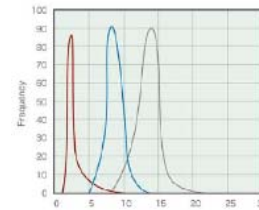


MICROTEC ADVANCED DIGITAL MICROSCOPE CAMERAS



Ultra Low read-out noise



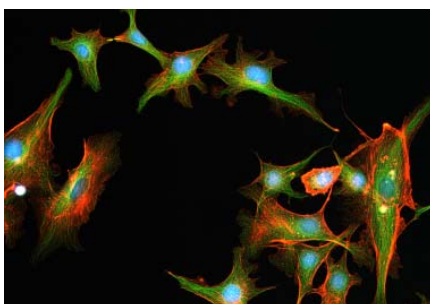
Red = MDC-C1.3F camera
Blue & Grey = conventional CCD cameras
The read-out noise is suppressed to 3 to 5 less than conventional CCD cameras

Read out noise (3electrons)

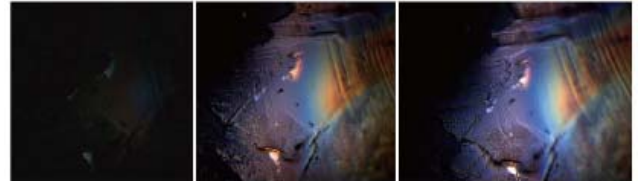
Specification

Camera	MDC-C1.3F	MDC -C3F
Sensor	CMOS	CMOS
Sensor Size	Diagonal 6.1mm	Diagonal 6.5mm
Pixel size	3.63µm x 3.63µm	2.5µm x 2.5µm
Resolution	1270 x 1030 664 x 512	2048 x 1536 1024 x 768
Fitting	C-mount	C-mount
Maximum Frames per second	21fps at 1270 x 1030 38fps at 664 x 512	11fps at 2048x1536 27fps at 1024x768
Read out noise	3e- (r.m.s.)	3e- (r.m.s.)
Quantum efficiency	Max 67%	Max 67%
Full-well capacity	14000e-	8000e-
Dynamic range	4500:1 (Gain1X)	2500:1 (Gain1x)
ADC	12 bit	12 bit
Exposure Time	1ms to 5s	1ms to 5s
Freeze frame tech to reduce noise	Electronic digital type	Electronic digital type
Long exposure	Auto integral	Auto integral
Exposure Control	Automatic/Manual	Automatic/Manual
White Balance	Automatic/Manual	Automatic/Manual
PC Interface	USB2.0	USB2.0
USB cable	2.5m	2.5m
Operational temperature	0 to 60°C	0 to 60°C
Humidity	45% to 85%	45% to 85%
Storage temperature	-20 to 70°C	-20 to 70°C

These cameras offer features for high quality imaging through the microscope; particularly for low light level work



Excellent Quantum efficiency

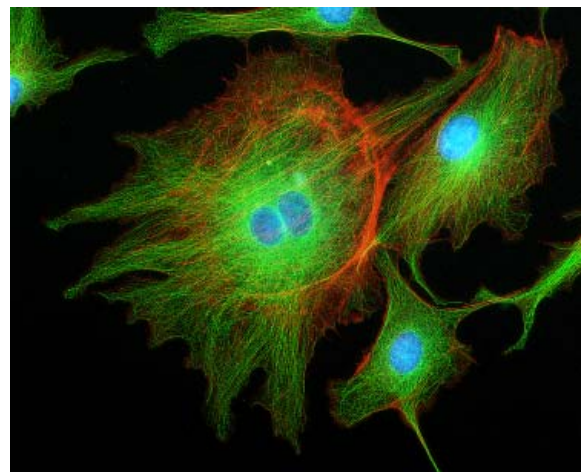


Conventional CMOS Conventional CCD MDC-C1.3F

Conventional CCD cameras have quantum efficiency in the range 40% to 60%. The MDC-C1.3F is 67%

Dynamic Range

The low read-out noise and high full-well capacity enables the MDC-C1.3F camera's dynamic range to reach 4500:1. This is 50% higher than many professional CCD cameras range of 3000:1. This enables the finest details to be displayed in the darkest and lightest areas of an image



Prices

MDC-C1.3F 1.3 Megapixel camera **£875.00**
MDC-C3F 3 Megapixel camera **£1020.00**

PRICES EXCLUDE DELIVERY AND VAT

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