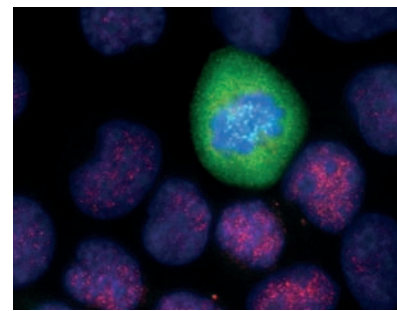
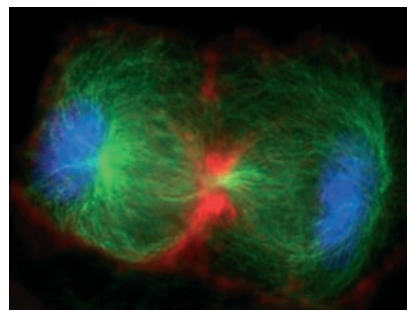
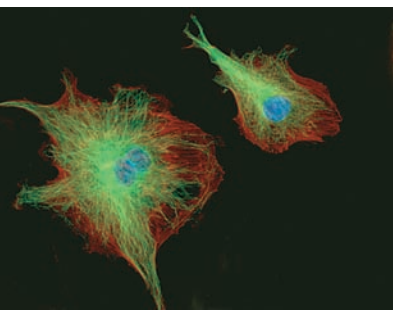


ProgRes® MF Series

Monochrome Cameras for Demanding Imaging Applications



High Quality Imaging with Low Light

Especially when working with low-light specimens the high sensitivity of ProgRes® MF models warrants brilliant images. Configured with a sensitive 1.4 megapixel CCD sensor and analog gain, MF series cameras feature high frame rates and a broad dynamic range.

Especially the cooled models MF^{cool} and MF^{scan} are adapted to handle mainly low-noise longtime exposures – not only in fluorescence microscopy.

Fine Details Exactly Rendered

For detailed image analysis and informative image documentation, the ProgRes® MF^{scan} generates image resolutions up to 12.5 megapixel. Microscanning allows for capturing overview images and high-resolution details with identical setting of the microscope's optics .

Fits Easily into Any Laboratory

With IEEE1394 Firewire and C-Mount each camera easily connects to any computer and microscope.

The delivery includes ProgRes® CapturePro image acquisition software providing comprehensive functionality that has been designed for intuitive handling. The fluorescence mode supports up to five filters, corrects auto fluorescence and automatically merges the individual images.

Benefits

- Outstanding sensitivity
- Fast frame rates
- Broad dynamic range
- Easy operation with comprehensive functionality
- Excellent price-performance ratio
- Safe investment

ProgRes® MF Series

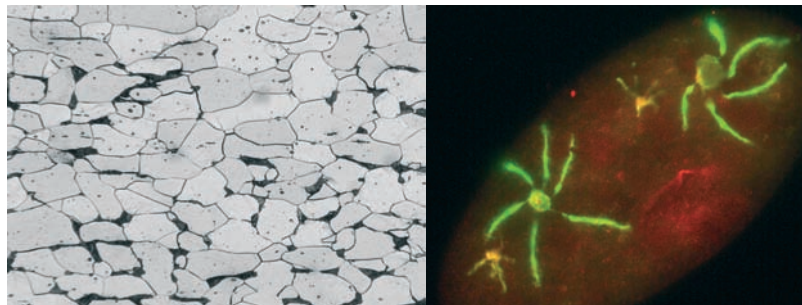
Monochrome Cameras for Demanding Imaging Applications

Specifications

| | ProgRes® MF | ProgRes® MF ^{cool} | ProgRes® MF ^{scan} |
|-----------------------------------|---|---|--|
| CCD Sensor | 2/3" 1.4 Megapixel Progressive Scan Monochrome CCD, 8.8 mm × 6.6 mm active area | | |
| Sensor resolution | 1360 × 1024 pixel | 1360 × 1024 pixel | 1360 × 1024 pixel |
| Pixel size | 6.45 µm × 6.45 µm | 6.45 µm × 6.45 µm | 6.45 µm × 6.45 µm |
| A/D conversion | 12 Bit | 14 Bit | 14 Bit |
| Pixel clock | 12 MHz 24.5 MHz | 12 MHz 24.5 MHz | 12 MHz 24.5 MHz |
| Dynamic range (at 10 ms exposure) | 67 dB 65 dB | 69 dB 67 dB | 69 dB 67 dB |
| Max. exposure | 180 s | 300 s | 300 s |
| Analog gain | 1x ... 8x | 1x ... 8x | 1x ... 8x |
| Frame rate (image size) | 33 fps (680 × 512) | 33 fps (680 × 512) | 33 fps (680 × 512) |
| Image resolution | Standard: 1360 × 1024 HFRM: 680 × 512 and 340 × 256 Binning: 2x, 3x, 4x, 5x Microscanning: - - | 1360 × 1024 680 × 512 and 340 × 256 2x, 3x, 4x, 5x - | 1360 × 1024 680 × 512 and 340 × 256 2x, 3x, 4x, 5x 4080 × 3072 2720 × 2048 |
| Cooling | - | Peltier, fan, hermetically sealed sensor | |
| Digital interface | IEEE1394a Firewire | | |
| Optical connection | C-Mount (0.63× TV adapter recommended) | | |
| Trigger | Trigger-In and Trigger-Out for synchronization with external devices | | |
| Tripod thread | Dual thread 3/8" and 1/4" | | |
| Voltage supply | 8 ... 33 VDC (via IEEE1394 connector) | | |
| Power consumption | 5 W | 8 W | 8 W |
| Ambient conditions | Temperature: +5 °C ... +35 °C Humidity: 5 % ... 80 %, not condensing | | |
| Dimensions (L × W × H) | 145 mm × 93 mm × 123 mm | | |
| Weight | 800 g | | |
| Capture software | ProgRes® CapturePro (TWAIN & Stand-Alone) | | |
| Computer requirements | PC: Microsoft Windows 2000/XP/Vista Mac: Apple Macintosh OS X 10.4 or higher 3 GHz CPU, 1 GB RAM, 64 MB graphics recommended, IEEE1394 Firewire (OHCI compliant) | | |

Fields of Application

- Life science
- Genetics
- Microbiology
- Fluorescence microscopy
- Cell biology
- Pharmacy
- Material science
- Metallography
- Mineralogy
- Chemistry
- Phase contrast microscopy
- Forensics



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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