



® Chongqing MIC Technology Co.,Ltd

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High Speed CCD Camera MC56

MC56 is a 5.0MP Microscope Camera with 2/3" CCD sensor, adopts new SpeedXT core technology, frame rate in real time can get to 13fps even with full resolution. It has advantage obviously for laboratory working and moving research specimen, users is easy to achieve fast and accurate focus and position fixed. The camera supports 180s exposure time to provide excellent image under low light surroundings, maximum color depth is 36bits.

Advantages

- Excellent CCD sensor to get high speed & easy focus-SpeedXT core
- High resolution and brilliant imaging quality
- Perfect color reproduction
- Functional MIC TECH digital microscope imaging software
- Easy installation and use
- High cost-effective

Applications

Microscope imaging analysis, documents and data save for

- Material science, geology and mineralogy
- Life science and diagnose
- Quality control
- Pathology and cito-biology
- Forensic

MC56 CCD Camera Specification

Sensor	2/3" CCD , color
Resolution	2580 x 1944, 5.0MP
Active sensor size [Hx V]	9.04 mm x 7.86 mm
Pixel size	3.4 μm x 3.4 μm
Analogue Gain	1x ... 5x
A/D conversion	12 bit
Frame rate	13 fps [2580 x 1944] 45 fps [640 x 484]
Dynamic range	61 dB
Read out noise (typical)	4 LSB (RMS)
Exposure	30 μs ... 180 s
White Balance	One-push auto, manual
Optical Interface	C-Mount (0.63× TV pref.)
PC Interface	USB2.0
Software Functions	Image preview, acquisition, video record, measuring, image processing
Power data	USB



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HIGH-PERFORMANCE DIGITAL COLOR IMAGING SYSTEM MC55

The mc55 is a 5 megapixel digital color camera that is ideal for fast and easy documentation and image analysis requirements when high-resolution detail is essential. The perfect color reproduction, fast live image preview and ease of use make the MC55 a sound choice for a broad range of scientific applications including bright field, phase contrast, DIC, etc.

Key Features

Perfect color reproduction

High resolution (2580×1944,5.0Mpix)

Fast live image (9fps 1290 x 972, 25fps 646 x 488)

Fit to any PC and microscope

Excellent price-performance ratio

MC55 Camera Specifications

Sensor	Sony ICX282 , 2/3" CCD
Resolution	2580 x 1944, 12bit
Pixels Size	3.4μm X 3.4μm
Frame Rate	9 fps (1.290 x 972)
	25fps(646 x488)
Binning	1x ... 8x
Shutter	Electronic shutter
Dynamic range	61 dB 60 dB
Read out noise (typical)	4 LSB (RMS)
Exposure	400 μs ... 180 s
Operating Temp.	-10°C ~ -60°C
White Balance	One-push auto, manual
Optical Interface	Standard C-Mount 0.63X
Digital Interface	IEEE 1394a FireWire
Software Functions	Image preview, acquisition, video record, measuring, image processing
OS	Windows 2000, XP SP2/SP3/Win7(32bit)

PC configuration needs:

CPU	Requirement	Pentium 4,2.4 GHz or above, Pentium M,1.4 GHz or above
	Recommend	Pentium D930,3.0 GHz, Dual core, Pentium M,2.6 GHz
Pixels Size	Requirement	5GB or more
	Recommend	20 GB
EMS Memory	Requirement	512Mb or More



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	Recommend	1GB
Operating System	Microsoft windows 2000,XP SP2/SP3,Vista	
Data Interface	USB2.0	
Application Software	MIC TECH Image processing Software	

MC50 MIC TECH CCD Microscope Camera with 5 megapixel

The MIC TECH MC50 is a 5.0 MP cooled color camera offering superior image quality and long exposure times, ideal for fluorescence /weak signal or any low light condition. Its high resolution, fast frame rates and excellent color fidelity all guarantee an efficient microscopy workday.

CCD chip

The 2,560 x 1,944-pixel Sony ICX282 CCD chip used in the MC50 offers 12 bits per color channel and can be used for variable exposure times between 1.6 ms and 17.9 min with the help of Peltier cooling. These features, along with the high sensitivity, color fidelity, superior contrast and extraordinary signal-to-noise ratio make the MC50 a great universal high-resolution CCD color camera.

Interface

The MC50 makes a great addition to any microscopy system not only because of its great features, but also since it is easy to integrate using a standard C-mount adaptor to connect to the microscope and the high-speed data transfer and power capabilities of the USB2.0 interface.

Software

The camera can be fully operated using the MIC TECH Image processing Software, which offers a host of image processing, storage, preview and measurement functions.

Highlights:

High resolution & high quality image.

Real time preview and focusing.

Image refresh rate up to 40fps.

12-bit color depth for outstanding color fidelity.

USB2.0 design makes it easy to carry and install.

Peltier cooled to 10° C below ambient

Exposure times ranging from 1.6 ms to 17.9 min.

Automatic exposure and white balance. Manual mode for fine tuning

Standard C-MOUNT is widely used in connection between microscope and camera.

2/3"Sony ICX282 Progressive Scan Interline CCD, good quality guarantee.

MC50 Camera Specifications

Sensor	2/3" Sony ICX282 Progressive Scan Interline CCD, Color
Resolution	2560 * 1944, 5.0MP
Pixels Size	3.4µm X 3.4µm
Frame Rate	10fps@1280X768 30fps@320X240



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Binning	2x3,3x3 or 4x4,color
Shutter	Electronic shutter
S/N Ratio	72dB
Cooling Type	Peltier cooling
Exposure	1.6 ms~17.9 min
Scanning Mode	Progressive scanning
Operating Temp.	-10°C ~-60°C
White Balance	One-push auto, manual
Optical Interface	Standard C-Mount
Power Supply.	USB
Software Functions	Image preview, acquisition, video record, measuring, image processing
Data Interface	USB2.0, 480Mbit/s
OS	Windows 2000, XP(32bit,64bit),win7, Vista; USB2.0 Port

PC configuration needs:

CPU	Requirement	Pentium 4,2.4 GHz or above, Pentium M,1.4 GHz or above
	Recommend	Pentium D930,3.0 GHz, Dual core, Pentium M,2.6 GHz
Pixels Size	Requirement	5GB or more
	Recommend	20 GB
EMS Memory	Requirement	512Mb or More
	Recommend	1GB
Operating System	Microsoft windows 2000,XP SP2/SP3,Vista	
Data Interface	USB2.0	
Application Software	MIC TECH Image processing Software	

MC35 MIC TECH 3.0 MP Professional CCD Digital Camera

MC35 adopts Sony ICX252 CCD sensor and can be used for previewing. Its 3.3 MP enables it to capture images of both bright and dark field with high quality as well as fluorescence pictures. These functions above can be realized under the cooperation of MIC TECH imaging software. MC35 is widely applied to IHC, DIC, polarization and live cell observation.

3.3MP professional digital imaging

MC35 equipped with Sony ICX252 CCD sensor of high resolution up to 2080*1542 and can capture HD images. Even under low magnification, images remain clear after magnify in some area.

Color Rendition

Applied with Germany advanced technology, MC35 is better in color reproduction.

Smooth Real-time preview



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Real-time preview and focusing refresh rate up to 25 fps and even higher when select ROI.

High transmission speed

MC35 adopts standard C adapter and can easily connect to microscope. Speed even higher when use 1394A.

Comprehensive Software

MIC TECH microscope imaging software is customer friendly and easy to master.

MC35 Camera Specifications

Sensor	Sony ICX252 AQ, 1/1.8", 3.0MP
Resolution	2080×1542 (12 bit monochrome , 36 bit color)
Pixels Size	3.45µm X 3.45µm
Binning	2x3,3x3, 4x4,5×5
Dynamic range	61dB
Readout	4 LSB (RMS)
Expose time	500µs ... 180s, auto expose
Max frame rate	6.7 fps (2080×1542), 25fps(416×308)
Data interface	IEEE 1394a FireWire
Optical adapter	Standard C adapter
White Balance	Auto WB/Manual WB
Shutter control	Continuous changeable rapid electric shutter
Software function	Displaying、snapping、DOF expanding、videoing、measuring、reporting and other advanced functions

MC15 MC15-MIC TECH CCD Microscope Camera with 1.4 megapixel

The MIC TECH MC15 camera, color or monochrome mode, offers all of the properties required to provide dependable gray scale value and fluorescence microscopy images: high resolution, extremely fine sensitivity, a cooled CCD chip, variable exposure times and full-preview function.

Easy installation and controls

The MC15 can be quickly and easily mounted onto all light microscopes with a C-mount adaptor. Furthermore, it can be fully operated via MIC TECH Image processing Software, which offers a host of image processing, storage, preview and measurement functions.

Highlights:

1,360 x 1,024 pixel image resolution (1.4 Mega pixel)

1/2" ICX205 Sony HAD CCD

4.6 micron pixels that provide high sensitivity and a large dynamic range

10-bit color depth for outstanding color fidelity.

Exposure times ranging from 6 ms to 650ms.

Peltier Cooling Mechanism, suppressing thermal background noise and obtain high-contrast images

Easy to use camera control interface with the standard C-Mount

Standard C-MOUNT is widely use in connection between microscope and camera.



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USB2.0 Interface means smooth, live preview on the computer display

Supporting third-party software, you can choose the one as you like

MC15 Camera Specifications

Sensor	1/2"ICX205 HAD CCD	Sony	Readout Noise	12e-
Resolution	1360x1024		Data Interface	USB2.0 (480 Mbit / sec)
Pixels Size	4.6µm x 4.6µm		Power Supply	USB
Frame Rate	15fps@ 1360*1024		Electricity	≈200 mA
Shutter	Electronic		White Balance	Manual/Auto One-touch
S/N Ratio	66dB		Exposure control	6ms~650ms. Auto and Manual Exposure
Scanning Mod	Progressive scanning		Spectral Response	400nm~1000nm
Operating Temp	-10°C ~ 60°C		OS	Windows 2000, XP SP2/SP3, Vista;
Software Functions	Image preview, acquisition, video record, measuring, image processing			

MC20-MIC TECH High Sensitive CCD Camera with 1.4 megapixel

Applying SONY Exview HAD CCD, the same CCD used in Olympus DP72, MC20 acquires images of competitive quality with reasonable price. Its Peltier cooling mechanism can significantly reduce the thermal noise caused by long time exposure, suitable to observe hypo fluorescence, bright&dark field, DIC, living cell, IHC, etc.. Standard C-Mount spectral interface makes it work with any standard trinocular biological microscope, stereo microscope, metallurgical microscope smoothly.

High sensitivity

The MC20 camera has a resolution of 1,360 x 1,024 pixels. Highly efficient readout technology coupled with Peltier-cooling of the CCD chip results in images of superior signal-to-noise ratio. Highly sensitive CCD elements are capable of detecting even the faintest signals. The electronic shutter offers variable exposure times ranging from 1/44000s to 115s.

High frame rates

The MC20 provides several resolutions using various read-out modes. With a video-like resolution it delivers 60 frames per second. At its full resolution –1,360 x 1,024 pixels – the MC20 still offers an impressive 15 frames per second.

Highlights

High resolution & high quality image.

Speed of preview 15fps, resolution 1360x1024.



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USB2.0 design makes it easy to carry and install.

12-bit color depth for outstanding color fidelity.

Peltier cooled to 10° C below ambient

Exposure times ranging from 1/44000s to 115s.

Automatic exposure and white balance. Manual mode for fine tuning

Standard C-MOUNT is widely use in connection between microscope and camera.

2/3" SONY ICX285 CCD, good quality guarantee.

MC20 Camera Specifications

Sensor	2/3"SONY ICX285 CCD	Readout Noise	8e-
Resolution	1360x1024,12 bit	Spectral Response	400nm~1000nm
Pixels Size	6.45µm x6.45µm	Data Interface	USB2.0 (480 Mbit / sec)
Frame Rate	15fps@1360x 1024	Power	DC 5V ± 5%
	30fps@640*4 80	Electricity	≈200 mA
Binning	2x2,4x4	Optical Interface	Standard C-Mount
Shutter	Electronic shutter, continuous variable speed	White Balance	Manual/Auto One-push
S/N Ratio	72dB	Exposure	1/44000s~115s, Auto
Scanning Mode	Progressive scanning	Software	Display, capture, video, measure
Operating Temp	-10°C ~ 60°C	Applicatio n	Faint light, chemiluminescence, bioluminescence, flow cytometry, GFP,FISH,NIR ,FRET, bright or dark field, DIC, living cells, IHC and so on.
Cooling	Optional. Semiconductor cooling mode, 20 ° C below the environment temperature.		



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Deep Cooled Monochrome/Color CCD Camera MC21

Professional-grade CCD microscope camera MC21 is our latest CCD microscope camera developed independently. It is a high resolution deep cooled CCD camera in high sensitivity. Effective pixels can reach 1360 (H) * 1024 (V). Since our MC21 puts the imported 2/3 " CCD sensor--SONY EXview HAD CCD into use, its imaging effect is comparable to Olympus DP71.

MC21 is equipped with high-speed USB2.0 interface to collect data, and does not need to configure a video conversion device. Easy installation with our drive and software can realize real-time preview, images capture and video record. You are not only able to basically process your microscope image, but also measure the length, angle, area of the shooting objects and print a graphic report.

MC21 is suitable for the following applications:

MC21 can be connected to any standard trinocular biological microscope, stereo microscope and metallurgical microscope to capture your microscopy images. Mainly used in weak fluorescence, chemiluminescence, bioluminescence, flow cytometry, bright and dark field observation, imaging observation of GFP, FISH, NIR, FRET, DIC, live cell, immunohistochemistry, etc.

Highlights:

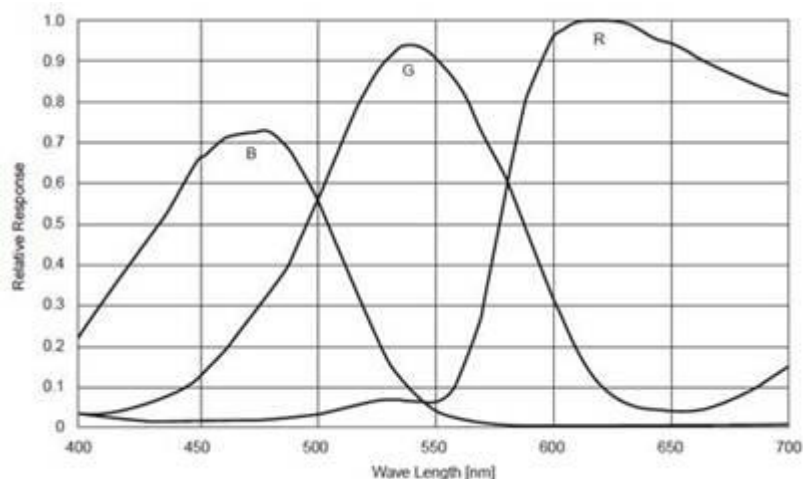
2/3 " CCD sensor--SONY EXview HAD CCD, 1.4MP

Deep cooled to - 28C° at ambient temperature

High sensitivity suitable for weak fluorescent and infrared observation

USB2.0 data interface

MC21(Color) spectrum response curve:



MC21(Monochrome) spectrum response curve:



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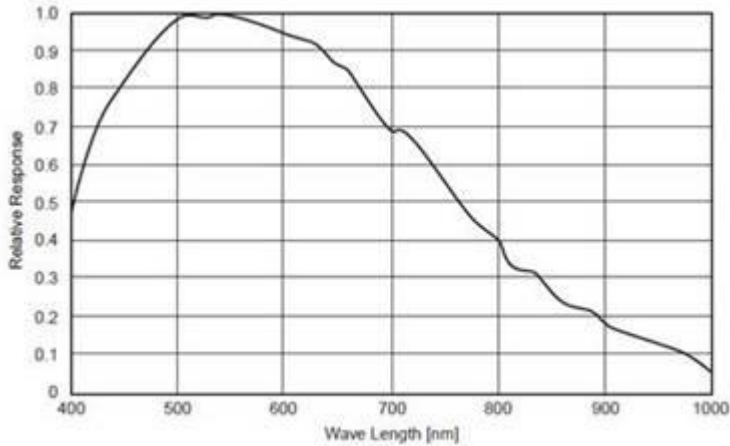
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MC21(Color) Technical Parameters

Model	MC21 Color	Camera type	Color CCD Camera
Sensor	Sony	Pixel size	6.45um×6.45um
Sensor model	ICX285AQ	Frame rate	15fps@ 1360*1024
Sensor size	2/3-inch (4:3)	Shutter type	Electronic shutter
Effective resolution	8.8mm (H) X 6.6mm (V) diagonal 11mm	Exposure control	Automatic/manual
Effective pixels	1360H x 1024V (1.4MP)	Dynamic range	67dB
A/D conversion(color depth)	12bit	Data connector	USB2.0 (480Mbit/sec)
Scanning mode	Progressive scanning	Supporting connector	SDK, WDM, TWAIN, direct show
Spectrum response	400nm~1200nm	Camera connector	Standard C-mount
Readout noise	4LSB	Working temperature	-30℃~+70℃
G sensitivity	1300mv	Working power(current)	DC 5V±5%
Cooling	semiconductor refrigeration, - 28C° at ambient temperature	Operating system	Windows2000、XP、Vista、Windows7 32bit/64bit
Controller	Image size, image acquiring, exposure	Applications	Weak fluorescent, chemiluminescence,



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	time, GAMMA, contrast ratio, brightness, RGB gain, saturation		bioluminescence, flow cytometry, bright and dark field observation, imaging of GFP, FISH, NIR, FRET, DIC, and live cell, IHC, infrared observation.
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MC21(monochrome) Technical Parameters

Model	MC21 Monochrome	Camera type	Monochrome CCD Camera
Sensor	Sony	Pixel size	6.45um×6.45um
Sensor model	ICX285AL	Frame rate	15fps@ 1360*1024
Sensor size	2/3-inch (4:3)	Shutter type	Electronic shutter
Effective resolution	8.8mm (H) X 6.6mm (V) diagonal 11mm	Exposure control	Automatic/manual
Effective pixels	1360H x 1024V (1.4MP)	Dynamic range	72dB
A/D conversion(color depth)	12bit	Data connector	USB2.0 (480Mbit/sec)
Scanning mode	Progressive scanning	Supporting connector	SDK, WDM, TWAIN, direct show
Spectrum response	400nm~1200nm	Camera connector	Standard C-mount
Readout noise	4LSB	Working temperature	-30℃~+70℃
G sensitivity	1300mv	Working power(current)	DC 5V±5%
Cooling	semiconductor refrigeration, - 28C° at ambient temperature	Operating system	Windows2000、XP、Vista、Windows7 32bit/64bit
Controller	Image size, image acquiring, exposure time, GAMMA, contrast ratio, brightness, RGB gain, saturation	Applications	Weak fluorescent, chemiluminescence, bioluminescence, flow cytometry, bright and dark field observation, imaging of GFP, FISH, NIR, FRET, DIC, and live cell, IHC, infrared observation.