Soffmere

Catymage from Catalyst Biotech is an advanced yet user-friendly and intuitive software, supplied with CatCam E-Series Cameras. It allows you to control all the functions of the camera along with acquisition, processing, analysis and browsing of the images. A simple user interface makes the installation a simple task and is compatible with all the versions of Windows OS.

Catymage has a very User-friendly UI design with well arranged menus and toolbars to ensure quick operation. It has a unique design of Five sidebars to control - Camera, Folders, Undo/Redo, Layer and Measurement.

Hardware Control Module

Exposure & Gain

Auto / manual exposure; Up to 5 times gain

White Balance

Advanced single-click intelligent white balance setting, temperature and tint can be manually adjusted

Color Adjustment

Hue, saturation, brightness, contrast, gamma initialization adjustment

Frame Rate Control

Adjustment of frame rate available for different computer configurations;

Natural light/DC, AC 50 HZ, AC60 HZ switch function thoroughly eliminates video flicker;

Parameters

calibration information, exposure and color setting information);

Image Processing & Analyzing module

Video measurement; Video calibration, Gray calibration; Video EDF; Image stitch; Video scale bar, date and etc.

Image Processing and Enhancement

Control and adjust image by contrast, etc.

Easy video or image calibration. Various video and image measurement methods like area, perimeter, angle etc..

EDF(Extended Depth of Focus)

Aimed at generating a clearer image by combining a sequence of previously captured multi-focus images;

Segmentation & Count function

Integrates the advanced 6 image segmentation and particle counting algorithm

Image Stacking

Image stacking adopts advanced image matching technology

Color Composite

Color composite adds appropriate pseudo color to monochrome fluorescence images.







Power Frequency Setting(Anti-filcker)

Check the "horizontal" or "vertical" option to eliminate the mirror effect:

Skip and bin sampling

Bin mode can obtain low noise video stream; Skip mode obtains sharper and smoother video stream.

Load, save, overwrite, import, export self-defined parameters of camera control panel (including

Video functions

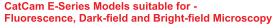
Various professional functions: Video broadcast; Time lapse capture; Video record; Video watermark; Video stream grid;

Image stitching can automatically combine a sequence of relevant images into a perfect larger one

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Technical Specifications	CatCam300EF	CatCam500EF
Image Sensor (CCD)	1/1.8" Color	2/3" Color
Scan Mode	Inter	aced
Pixel size (active pixel)	3.45µm x 3.45µm	3.4µm x 3.4µm
Pixels	3.1MP	5.0MP
Max. Resolution	2048 x 1536	2560 x 1920
Sensitivity	455mv with 1/30s Accumulation	260mv with 1/30s Accumulation
Speed / Frame Rate (frames/sec)	6 @ 2048x1536 41 @ 640x480	45 @ 2560x1920 9 @ 1280x960
Dynamic Range	70	dB
SN Ratio	62	dB
A/D Converter		Parallel, BB to PC
Binning	1x1,	2x2
Spectral Range	380 - 650nm (w	vith IR-cut Fiter)
Optical Interfce		e C-Mount / r Ocular-tube
Size of mounting barrel		m and n with adaptor
Computer Interface		olug and thrust e of 1.8m length
Exposure	0.18ms~77ms, ROI Auto & Manual	0.20ms~105ms, ROI Auto & Manua
White Balance		Balance / Fint Adjustment
Operating Temperature	-10 ~	50°C
Operating Humidity	30 - 80	0% RH
Image output	USB 2.0,	480Mb/s
Power supply	USB 2	.0 Port
Cooling System	Nat	ural
Accessories included	Two ad (dia. 30mm, dia. 3	daptors 0.5mm, one each



System requirement

- CPU equivalent to Intel Core 2
- 2.8GHz or Higher
- 2GB RAM or more
- 100MB or more of free Hard Disk space
- CD ROM Drive
- Hi-Speed USB2.0 port













CatCam **E-Series**

Upgrade to

IMAGE ANALYSIS SYSTEM

without changing

YOUR EXISTING MICROSCOPE



Keeping up with the legacy of CatCam, the E-Series is a easy-to-use digital scientific camera with a color CMOS/CCD sensor interfacing with a computer via high-speed USB 2.0 and compatible with all the versions of Windows OS. It allows independent operation for high-definition digital imaging at a hardware resolution between 1.3MP to 14MP effective pixels without using any image grabber card and optimizes for real-time acquisition, fine-tuning exposure & white balance settings to achieve the best balance between resolution and contrast. It captures microscope images and displays real-time video on your PC screen. It offers full-screen -size display and the best resolution your computer monitor can provide. CatCam E-Series comes coupled with the multi-functional user-friendly advance software, Catymage, which allows you to preview live images, capture still images and save in various formats, record videos, edit images and also perform micrometry.





CatCam E-Series works excellent with all kinds of microscope, be it compound upright, inverted or stereo microscope. It optically interfaces with the ocular-tube (by replacing the eye-piece) in case of monocular or binocular microscope and with the C-mount / photo-tube in case of trinocular microscope

Easy to Connect - Convenient to use

CatCam E-Series is a plug-and-play device. It interfaces with the computer via High speed USB 2.0 port with a single data cable eliminating the need of framegrabbers. This facilitates the user with a choice to connect to either a desktop or a laptop computer. No external power supply is needed as the device gets power from USB port.

Speed and Resolution

Each model of CatCam E-Series has an option to select between higher and lower resolution, which helps in providing you with an ideal ratio between speed of data transmission (fps) and the resolution of your specimen's image. The unique sensor architecture is able to provide - frame rates fast enough to capture high speed cell events and lower noise for better signal-to noise measurements at the short exposure times required to achieve high frame rates.

Camera Control

The camera control has been integrated into the user-friendly intuitive software, Catymage, which controls every operation of the camera and post image acquisition process with just the click of PC mouse/keyboard buttons.







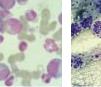




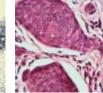
















Technical Specifications	CatCam130E	CatCam200E	CatCam300E	CatCam500E	CatCam800E	CatCam900E	CatCam1000E	CatCam1400E
Image Sensor (CMOS)	1/3" Color	1/2" Color	1/2" Color	1/2.5" Color	1/2.5" Color	1/2.4" Color	1/2.3" Color	1/2.3" Color
Scan Mode				Progr	Progressive			
Pixel size (active pixel)	3.6µm x 3.6µm	3.2µm x 3.2µm	3.2µm x 3.2µm	2.2µm x 2.2µm	1.67µm x 1.67µm x 1.67µm x 1.67µm x 1.67µm	1.67µm x 1.67µm	1.67µm x 1.67µm	1.4µm x 1.4µm
Pixels	1.3MP	2.0MP	3.1MP	5.0MP	8.0MP	9.0MP	10.0MP	14.0MP
Max. Resolution	1280 × 1024	1600 × 1200	2048 x 1536	2592 × 1944	3264 × 2448	3488 × 2616	3584 × 2748	4096 × 3288
Sensitivity (@550nm)	1.0v/lux-sec	1.0v/lux-sec	1.0v/lux-sec	0.53v/lux-sec	0.31v/lux-sec	0.33v/lux-sec	0.31v/lux-sec	0.724v/lux-sec
Speed / Frame Rate (frames/sec)	15 @ 1280x1024 26 @ 640x512 50 @ 320x256	16 @ 1600x1200 50 @ 800x600	8 @ 2048x1536 22 @ 1024x768 43 @ 680x510	5 @ 2592×1944 18 @ 1280×960 60 @ 640×480	1.9 @ 3264x2448 8 @ 1600x1200 27 @ 800x600	1.9 @ 3488x26161 8 @ 1744x1308 27 @ 872x654	1.9 @ 3584x27486 8 @ 1792x1374 27 @ 896x684	.9 @ 3584x274861.8 @ 4096x3288 8 @ 1792x1374
Dynamic Range	71dB	71dB	61dB	66.5dB	65.2dB	65.2dB	65.2dB	65.3dB
SN Ratio	44dB	42.3dB	43dB	40.5dB	34dB	34dB	34dB	35.5dB
A/D Converter	10-bit, 8-bit RGB to PC	12-bit, 8-bit RGB to PC	10-bit, 8-bit RGB to PC	12-bit, 8-bit RGB to PC	10-bit, 8-bit RGB to PC	10-bit, 8-bit RGB to PC	10-bit, 8-bit RGB to PC	12-bit, 8-bit RGB to PC
Binning	1x1, 2x2, 4x4	1x1, 2x2	1x1, 2x2, 3x3	1x1, 2x2, 4x4	1x1, 2x2, 4x4	1x1, 2x2, 4x4	1x1, 2x2, 4x4	1x1, 2x2, 4x4
Spectral Range				380 - 650nm (w	380 - 650nm (with IR-cut Fiter)			
Optical Interfce			Micros	scope C-Mount / P	Microscope C-Mount / Photo-tube or Ocular-tube	r-tube		
Size of mounting barrel			23	3.2mm and 30mm/3	23.2mm and 30mm/30.5mm with adaptor	or		
Computer Interface			USB 2.0 hc	ot plug and thrust v	USB 2.0 hot plug and thrust via a USB cable of 1.8m length	.8m length		
Exposure	0.14ms~2000ms, ROI Auto & Manual	0.14ms-2000ms, 0.128ms-2000ms, 0.128ms-2000ms, 0.21ms-2000ms, 0.38ms-2000ms, 0.38ms-2000ms, 0.38ms-2000ms, 0.4ms-2000ms, ROI Auto & Manual	0.128ms~2000ms, ROI Auto & Manual	0.21ms~2000ms, ROI Auto & Manual	0.38ms~2000ms, ROI Auto & Manual	0.38ms~2000ms, ROI Auto & Manual	0.38ms~2000ms, ROI Auto & Manual	0.4ms~2000ms, ROI Auto & Manual
White Balance			ROIW	hite Balance / Man	ROI White Balance / Manual Temp Tint Adjustment	stment		
Operating Temperature				-10 ~	-10 ~ 50°C			
Operating Humidity				30 - 80	30 - 80% RH			
Image output				USB 2.0,	USB 2.0 , 480Mb/s			
Power supply				USB 2	USB 2.0 Port			
Cooling System				Nat	Natural			
Accessories included			Тwo ас	daptors (dia.30mm	Two adaptors (dia.30mm, dia.30.5mm, one each)	each)		