





# GX Microscopes Cameras for Microscopy

The GX Microscopes range of cameras for microscopy provide high levels of functionality at excellent prices and have been specially designed for microscopy use. The GXCAM family includes a range of useful accessories and a very comprehensive GXCAPTURE software package making them the most popular range of cameras we supply.

Product Code	Product Name	Picture	Resolution	Application	Output	Microscope & Lens Connection	Software included with camera	Software Functionality Rating 1-5 (5= most functions)	Accessories Included	Special Features
GXMGXCAM-1.3	GXCAM-1.3 Digital Microscope C-Mount Camera		1.3MP 1280x1024 Colour	General Brightfield Microscopy Phase Contrast DIC Bright Fluorescence	USB 2 to PC (powered via USB2)	C-Mount Fits to photoport of trinocular head of microscope (requires c-mount adapter, not included) OR fits direct into eyepiece tube	GXCAPTURE	4	1. Eyepiece Adapter kit to fit into 23.2mm, 30mm and 30.5mm eyepiece tubes 2. Stage graticule slide for measurement 3. calibration USB cable	Function Rich Software Useful Accessories as Standard
GXMGXCAM-3	GXCAM-3 Digital Microscope C-Mount Camera		3MP 2048x1536 Colour	General Brightfield Microscopy Phase Contrast DIC Bright Fluorescence	USB 2 to PC (powered via USB2)		GXCAPTURE	4		
GXMGXCAM-5	GXCAM-5 Digital Microscope C-Mount Camera		5MP 2592 x 1944 Colour	General Brightfield Microscopy Phase Contrast DIC Bright Fluorescence	USB 2 to PC (powered via USB2)		GXCAPTURE	4		
GXMGXCAM-XGA	GXCAM-XGA Microscope C-Mount Camera		XGA 1024x768 (4X video resolution) True Colour 8bits per pixel	General Brightfield Microscopy Phase Contrast DIC Bright Fluorescence Especially useful in teaching and industrial applications for high quality strain-free image display	Analogue XGA Output Connects direct to PC monitor or XGA projector	C-Mount Fits to photoport of trinocular head of microscope (requires c-mount adapter, not included)	Not applicable	Not applicable	DC Power supply	Extremely high refresh rate of 60fps direct to a PC monitor or projector No computer Needed Flicker-free True Colour Crosshair Overlay
GXMMC280A	MC280A Video Microscope Eyepiece Camera		640x480 (video resolution)	General Brightfield Microscopy	Analogue Video Output Connects direct to Video monitor or Projector	Fits 23.2mm or 30mm eyepiece tubes	Not applicable	Not applicable	Video Connector	No need for camera adapter fits eyepiece tube direct
GXMMC280B	MC280B Digital Microscope Eyepiece Camera		640x480 (video resolution)	General Brightfield Microscopy	USB 2 to PC (powered via USB2)	Fits 23.2mm or 30mm eyepiece tubes	Simple capture program and TWAIN driver	1	USB cable	No need for camera adapter fits eyepiece tube direct

[www.gxmicroscopes.com](http://www.gxmicroscopes.com)

## GXCAM Family of USB-2 Colour Digital Microscopy Cameras

	<b>GXCAM-1.3</b>	<b>GXCAM-3</b>	<b>GXCAM-5</b>
<b>Image Sensor</b>	1/2" CMOS	1/2" CMOS	1/2" CMOS
<b>Sensitivity</b>	1.8v/Lux-sec at 550nm	1.8v/Lux-sec at 550nm	0.8v/Lux-sec at 550nm
<b>Max. Resolution</b>	1280 x 1024 (1.3M Pixels)	2048 x 1536 (3M Pixels)	2592 x 1944 (5.17M Pixels)
<b>Speed (PC dependent)</b>	12 frames/sec @ 1280*1024	3 frames/sec @ 2048 x 1536 12 frames/sec @ 1280*1024	2 frames/sec @ 2592 x 1944 3 frames/sec @ 2048 x 1536 12 frames/sec @ 1280*1024
<b>White Balance</b>	Automatic/Manual	Automatic/Manual	Automatic/Manual
<b>Auto-Exposure</b>	Automatic/Manual	Automatic/Manual	Automatic/Manual
<b>Image Output</b>	USB 2.0, 480 Mb/s	USB 2.0, 480 Mb/s	USB 2.0, 480 Mb/s
<b>Power Supply</b>	USB 2.0	USB 2.0	USB 2.0
<b>SOFTWARE:</b>			
<b>Image File Formats</b>	JPEG, PNG, SFT, TGA, BMP, TIF, PCX + many more	JPEG, PNG, SFT, TGA, BMP, TIF, PCX + many more	JPEG, PNG, SFT, TGA, BMP, TIF, PCX + many more
<b>Functionality</b>	Over 200 functions	Over 200 functions	Over 200 functions
<b>Measurements</b>	Calibration and Interactive	Calibration and Interactive	Calibration and Interactive
<b>PHYSICAL CHARACTERISTICS:</b>			
<b>Weight</b>	250g	250g	250g
<b>Camera Size</b>	60mm diameter	60mm diameter	60mm diameter
<b>USB Cable</b>	1.5 meter long	1.5 meter long	1.5 meter long
<b>Mount</b>	C/CS Mount	C/CS Mount	C/CS Mount



*Designed specifically for high performance scientific imaging these excellent cameras represent outstanding value for money.*

They are supplied complete with a set of adapters for attaching them to the eyepiece tube of most microscopes.

For microscope users with a trinocular headed microscope, all you need is the microscope manufacturer's c-mount adapter for a 0.5in chip camera to attach to the photoport.

Also included in the kit is a stage graticule calibration slide, essential for making calibrated measurements with the GXCAPTURE software.

GXCAPTURE is the software program supplied free with the camera which provides a live image from the microscope or lens making focussing and illumination set-up simple, a single click captures the image which can then be saved to disk in a wide range of file formats. The live image can be interactively adjusted to provide the optimum viewing and capture conditions, ideal for teaching and group discussion environments.

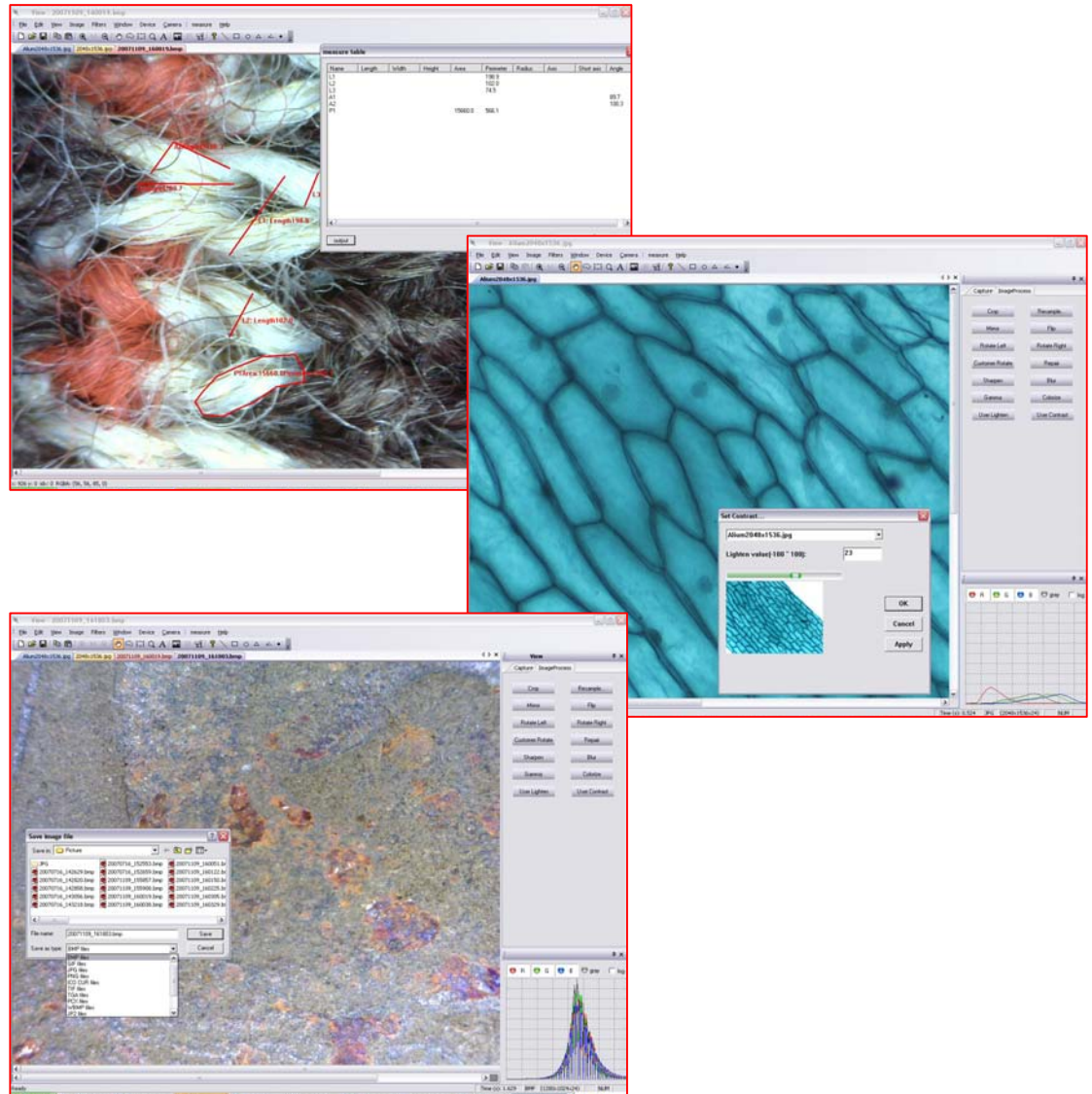
The software contains a huge suite of sophisticated image processing, annotation and measurement functions normally associated with programs sold at high prices.

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## GXCAPTURE Software

With every GXCAM USB digital camera we supply a copy of the GXCapture software application which provides a rich range of camera control, image processing and image measurements.



### Function List

<b>Camera Control</b>	Colour Balance
	Resolution
<b>File Formats</b>	Exposure incl .Auto exposure
	Gain
<b>Image processing</b>	10 file formats including JPG with user definable compression
	Reduce/Increase bits/pixel
	Resize
	Mirror/Rotate/Flip
	Transparency
	Greyscale
	Histogram display
	Histogram equalisation and stretching
	Image sharpening and smoothing filters
	FFTs
<b>Measurements</b>	Image colour component splitting
	Image merging for multiprobe fluorescence
	Line
	Point Count
	Area (square, circle, polygon)
	Calibration
	Exportable results table

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## GXCAM-XGA Analogue XGA Camera

<b>GXCAM-XGA</b>	
<b>Resolution</b>	4 X Higher Than Standard Video Resolution 1028x 768
<b>Interlacing</b>	Non-interlaced , giving a flicker free image, perfect for prolonged strain-free viewing
<b>Colour Fidelity</b>	True Colour 8x8x8 bits per colour
<b>Output Connector</b>	D-Sub 15 pin standard computer monitor cable connector
<b>Mount</b>	C Mount
<b>Sensor Size</b>	0.5in
<b>Overlay Generator</b>	Crosshair overlay on/off, ideal for inspection tasks – Flicker-Free!
<b>Exposure</b>	Manual Control Pot
<b>RGB</b>	Manual Control Pots
<b>Refresh rate</b>	More than twice video rate at 60 frames per second
<b>Pixel Type</b>	5.2um square
<b>Connects to</b>	PC display or projector for high resolution imaging. No PC needed

*The perfect solution for industrial and teaching applications. This new technology represents a giant leap in terms of performance and resolution compared to video cameras.*

The GXCAM-XGA simply plugs direct into your computer display or high resolution projector to provide stunning images from your microscope or lens system.

With extraordinarily high refresh rates and excellent colour fidelity, this new class of camera will revolutionise many high speed industrial inspection applications and hugely enhance teaching and group discussion environments in colleges, universities, hospitals and research institutions.



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