
Microscope Cameras

Microscope Camera Overview

PAXcam™ is a feature-rich, high-resolution digital microscope camera. Blend its easy-to-use software, stunning hi-res image acquisition, unrivaled image database software with an attractive price and you will agree that PAXcam is a must-have for microscopic imaging applications.

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PAXcam Microscope Camera Applications

- PAXcam is a fully integrated solution with a digital microscope camera and PAX-it, the top bundled microscope imaging software for managing your imaging workflow.
- PAXcam utilizes standard USB 2.0 and USB3 interfaces. This results in high frame rate, smooth, live color preview display.
- PAXcam is excellent for microscopy, be it brightfield, polarized light, reflected or transmitted light, Nomarski DIC or macro imaging applications. To see examples of PAXcam image quality.
- Standard C-Mount means that connecting to any metallograph, microscope, or stereozoom microscope is simple. Macro lens setups are also supported!
- Superior color rendition with simple automatic and manual white balance controls.
- PAXcam leads the industry with the unique capability to create unique customizable image overlays and video text overlays, for measurement, reference, alignment, GO/No-GO decisions, or comparison to a live preview image.
- Automatic exposure & Auto White Balance functions, along with storage of user presets for improved workflow.
- PAXcam captures high resolution images or AVI full-motion video files, which can all be collected and databased PAX-it's easy-to-use software.
- Multiple models available.

PAXcam Microscope Camera Features

- Unique easy-to-use interface.
- True plug-and-play camera allows installation in minutes!
- Micron/Scale bar on live and captured images.
- Computers that come with USB 2.0 require no additional hardware. No pulling the computer apart to install tricky CameraLink or firewire cards.
- PAXcam supports Time-lapse image capture and AVI video clip capture.
- Single cable provides the connection for power, control and data transfer.
- Use multiple USB 2.0 ports or hubs for multiple cameras into one computer- all easily controlled and switchable from within the PAXcam software.
- PAXcam connects to almost every microscope with a standard microscope coupler.
- Adjustable region of interest means smaller file sizes when capturing digital images!



Which Microscope Camera is Right for You?

The main difference between the PAXcam models is the resulting resolution of the captured image, and in the light levels available for imaging.

Microscope Camera Model	Mega-Pixels	Sensor	Image Resolution	Image File Size(color, uncompressed)	Max Exposure Time	Frame Rates in Live Preview
PAXcam ARC+ (USB 2)	Up to 32MP (selectable)	1/1.8" CCD	6464 x 4864	Up to 90MB	2500ms	21 fps @ 808×608 14fps @ 1280×1024 12fps @ 1616×1216
PAXcam5+ (USB 2)	5.0 MP	2/3" CCD	2448 x 2048	15.0MB	20 sec	8fps @ 2448×2048
PAXcam5 (USB 2)	5.0 MP	1/2" CMOS	2592 x 1944	15.1MB	1150ms	60fps @ 640×480 7fps @ 2592×1944
PAXcam4u3 (USB 3)	4.2 MP	1" CMOSIS	2048 x 2048	12.5MB	4000ms	90fps @ 2048×2048
PAXcam3 (USB 2)	3.1 MP	1/2" CMOS	2048 x 1536	9.4MB	1300ms	20fps @ 1200×768 10fps @ 2048×1536
PAXcam2+ (USB 2)	2.0 MP	1/1.8" CCD	1616 x 1216	5.9MB	20 sec	30fps @ 808×608 12fps @ 1616×1216
PAXcam2u3 (USB 3)	2.2 MP	2/3" CMOSIS	2048 x 1088	6.6MB	4000ms	170fps @ 2048×1088
PAXcam2 (USB 2)	1.9 MP	1/2" CMOS	1600 x 1200	5.8MB	800ms	40fps @ 800×600 10fps @ 1600×1200
PAXcam1+ (USB 2)	1.4MP	1/2" CCD	1392 x 1040	4.3MB	20 sec, low noise	15fps @ 1392×1040

Note: Cameras with a "+" are high sensitivity and low-light compatible.

Things to Consider with your Microscope Camera

Most captured images are used for documentation, archiving, slide show presentations, written reports, or shared via email. When considering a camera's resolution, keep the final purpose in mind. Large image files are difficult to email and network administrators do not want large image files taking up precious server space. (For example, a 5 MP image can produce a 12 MB image file; a 20 MP image can be 60+ MB in size!) If image analysis functions are being performed, the process can be noticeably slower as images get to be larger in size. ***These factors mean the balance between resolution and functionality must be assessed. More resolution is not always better!***

Are you wondering which Microscope Camera is right for you? Still undecided? Consult our image library for some examples of PAXcam images taken in different applications, and view the image quality available in each camera. Or contact a PAXcam representative to discuss your particular needs. Whatever your need, the PAXcam family has the right solution for you!

PAXcam Bundle Part Numbers

Microscope Camera Model	PAX-it	PAX-it with Basic Measurement	PAX-it with Image Analysis	PAX-it with Basic Measurement & Live Measurement	PAX-it with Image Analysis & Live Measurement
PAXcam ARC+	PSP-24	PSP-24M1	PSP-24M3	PSP-24L1	PSP-24L3
PAXcam 5+	P5P-24	P5P-24M1	P5P-24M3	P5P-24L1	P5P-24L3
PAXcam5	PS-24	P5-24M1	P5-24M3	P5-24L1	P5-24L3
PAXcam4u3	P4u3-24	P4u3-24M1	P4u3-24M3	P4u3-24L1	P4u3-24L3
PAXcam3	P3-24	P3-24M1	P3-24M3	P3-24L1	P3-24L3
PAXcam2+	P2P-24	P2P-24M1	P2P-24M3	P2P-24L1	P2P-24L3
PAXcam2u3	P2u3-24	P2u3-24M1	P2u3-24M3	P2u3-24L1	P2u3-24L3
PAXcam2	PL-24	PL-24M1	PL-24M3	PL-24L1	PL-24L3
PAXcam1+	P1P-24	P1P-24M1	P1P-24M3	P1P-24L1	P1P-24L3
PAXcamEDU	P1-24	P1-24M1	P1-24M3	P1-24L1	P1-24L3

- Multiple-camera systems are also available at great prices. You can install several PAXcam Digital Microscope Cameras onto one computer. Please call for details.
- Each c-mount camera requires a c-mount coupler to attach to the microscope (not included in the PAXcam system, but can be added if you don't already have one).
- Cameras can be incorporated with other hardware such as macro stands, optical microscopes, macro zoom lenses, and more. [Click here for more information on optional hardware.](#)

PAX-it Image Management System (included)

Each full-bundle of PAXcam includes the world's #1 imaging software, PAX-it. Since 1993 thousands of organizations have used PAX-it to capture, database, measure, analyze, annotate and share their images. Contact us for a live demo and see for yourself why PAX-it has been leading the imaging industry for over 25 years!

[Learn More](#)



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