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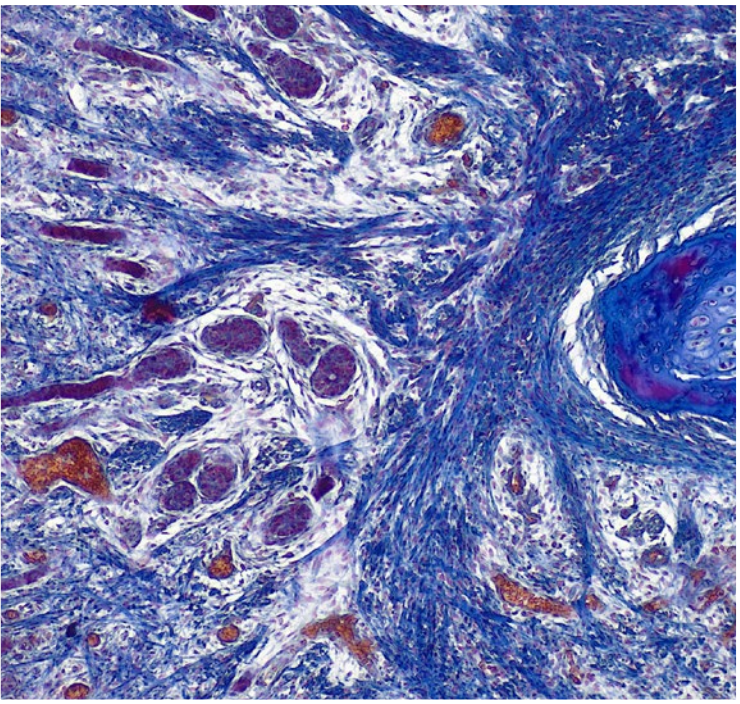
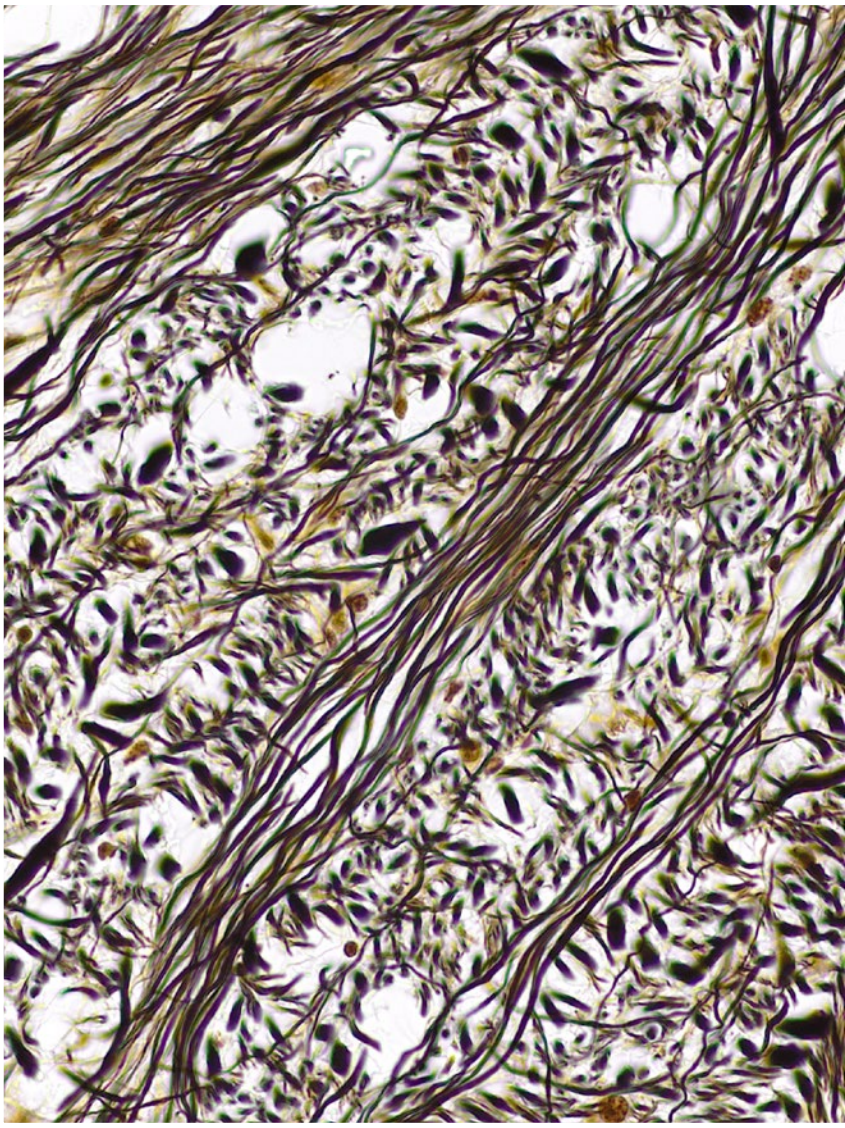
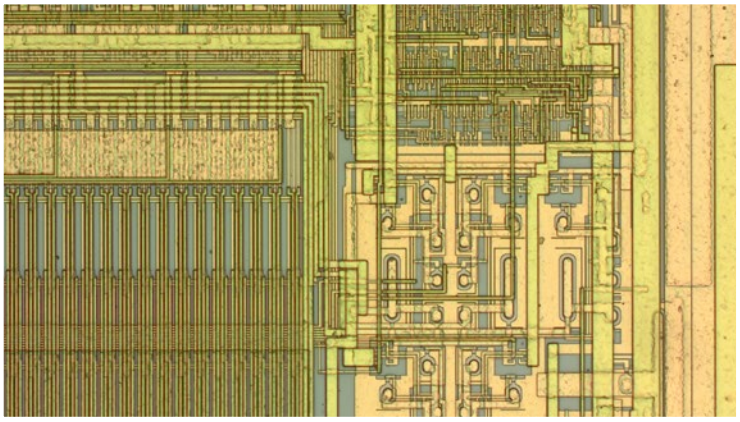
Digital Microscope Camera

LC35

Brightfield Imaging Out of the Box







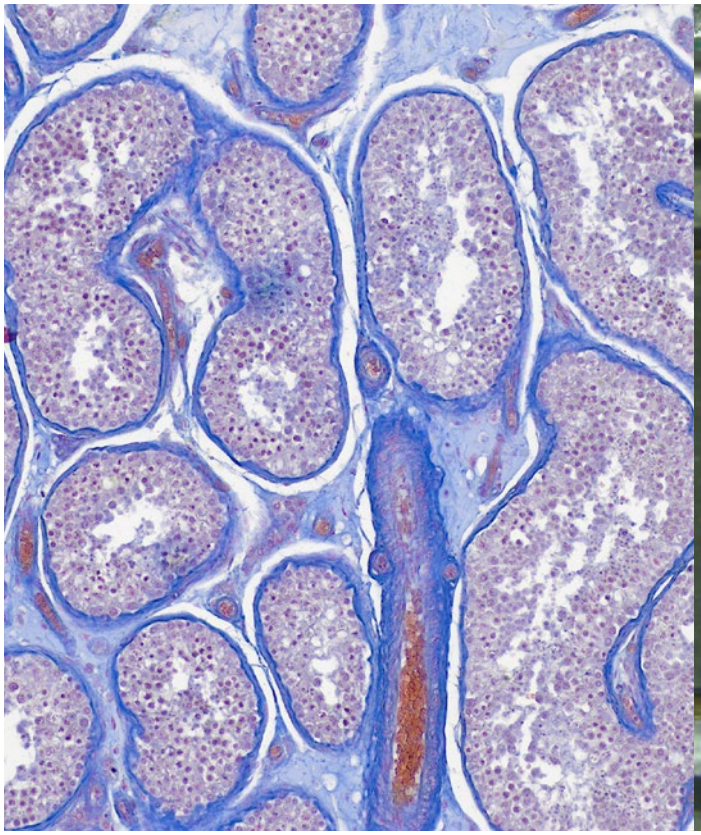
Not for clinical diagnostic use.

Value and Performance

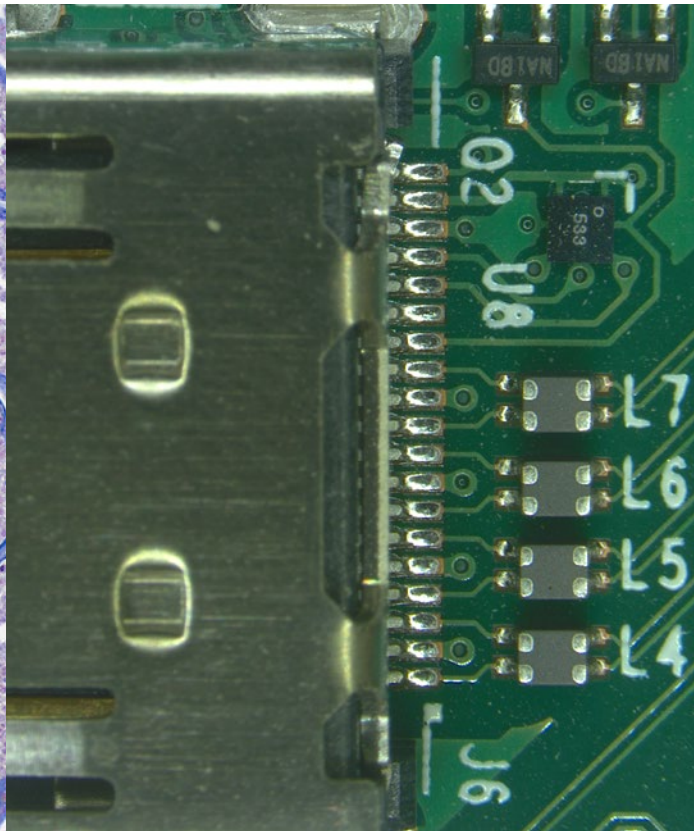
The LC35 digital microscope camera balances image quality with affordability to deliver an excellent value for standard brightfield imaging applications. As a complimentary component to our microscopes, the LC35 camera benefits from the ease of use our camera software is known for with seamless support and upgradeability to use with Olympus microscope systems.

Affordable Brightfield Imaging

The camera's 3.5-megapixel CMOS sensor enables you to capture detailed brightfield images for routine imaging, inspection, and documentation. Versatile exposure times and resolution modes make the camera flexible to use with a wide range of samples under different observation conditions.



Specimen: Human (adult) testis; Microscope: CX23, Objective: Plan Achromat 10x (NA 0.25), TV-Adaptor: U-TV0.5XC-3, Illumination: Brightfield (LED), Exposure time: 2 ms



Specimen: Computer PCB; Microscope: SZX16, Objective: 1x, TV-Adaptor: U-TV0.5XC-3, Illumination: EPI (Halogen), Exposure time: 20.8 ms

Because color is critical in brightfield imaging, the camera displays your samples in their natural color tones, reducing the need for post-image-capture corrections. With a frame rate up to 40 frames per second (fps), navigating around your sample is fast and easy, so you can achieve precise focusing and fast image capture.

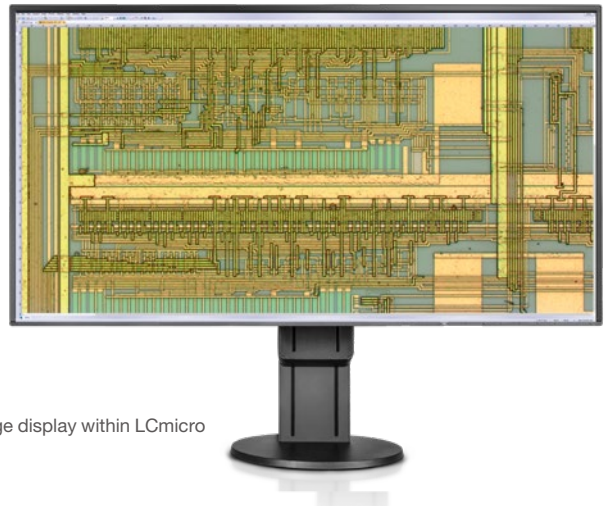
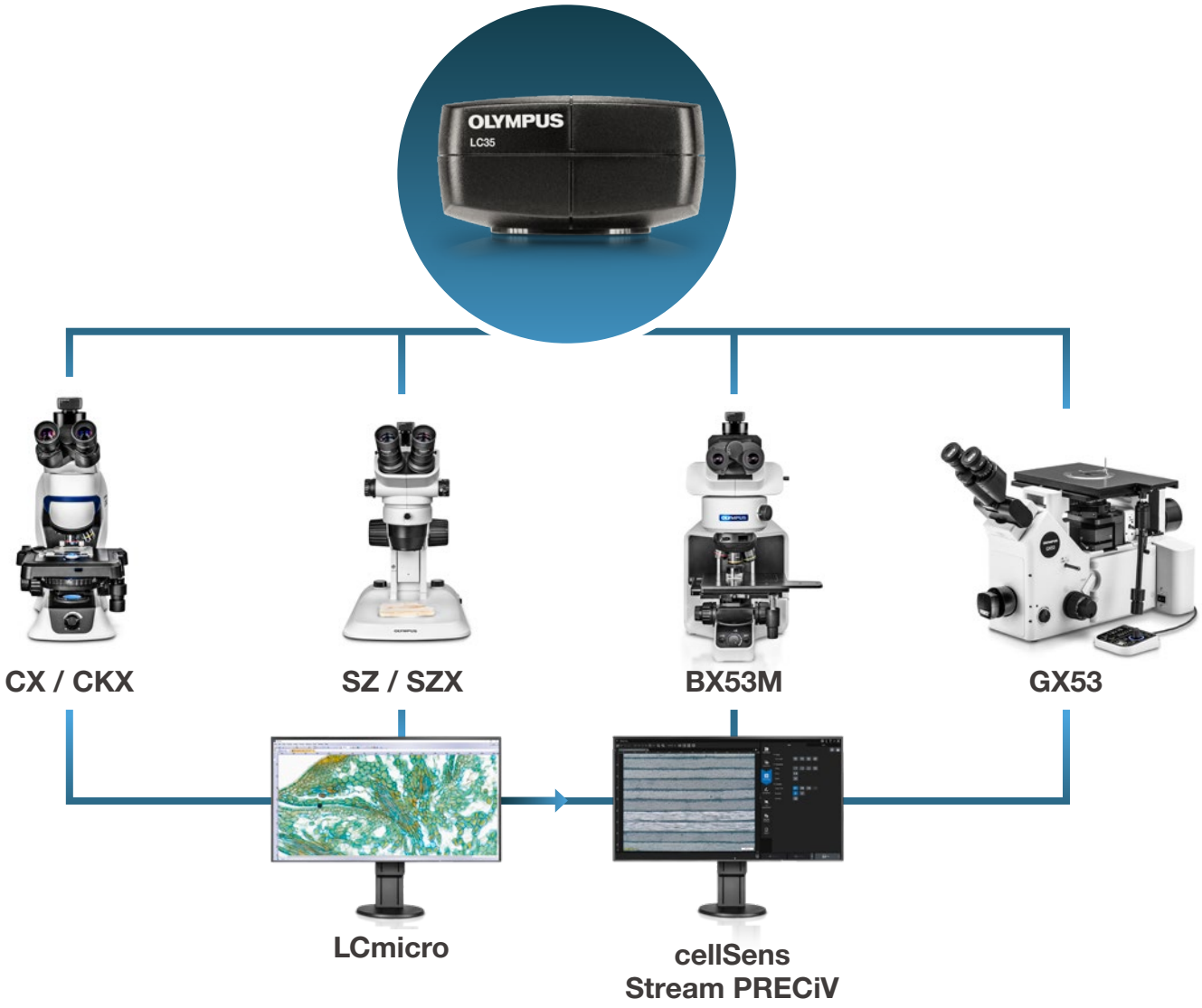


Image display within LCmicro

Seamless Support and Upgradeability

The LC35 camera seamlessly integrates with Olympus imaging systems, which includes full microscope set up assistance, software support, and optical compatibility. For basic imaging and documentation, the camera can be easily controlled using our free LCmicro software. For more advanced image acquisition and analysis tasks, the camera can be used with our advanced image analysis programs, including cellSens software for life science and OLYMPUS Stream and PRECiV software for industrial applications.



Simple to Set Up and Start Using

Setting up the LC35 camera is simple. A single USB 3.1 cord enables a fast connection to your PC or laptop for power and high-speed data transfer—no AC adaptor is required. The camera can quickly be mounted to any light microscope using different C-mount adaptors.

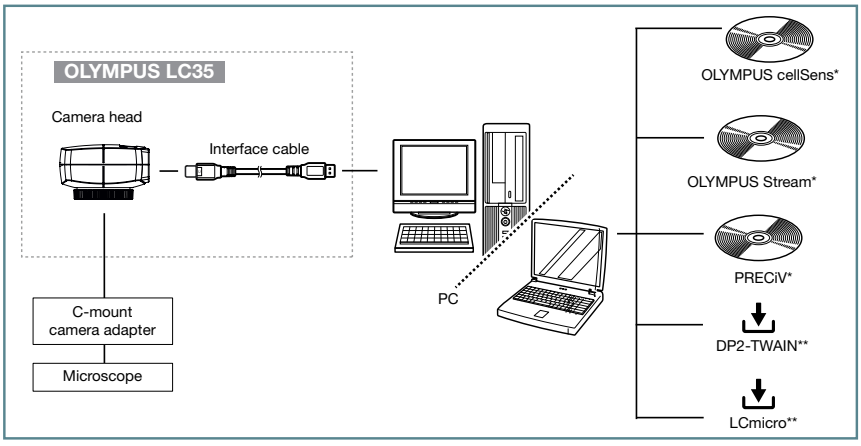
When using the camera, the intuitive software makes it easy for users of any experience level to begin capturing images right away. With only a little training, you'll quickly be able to use the camera to its full potential, including interactive measurements, commenting on images, archiving, and creating reports.

LC35 Specifications

Image Sensor	Color CMOS
Sensor Size	1/2.5-inch
Resolution (max)	2160 × 1620 pixels 1920 × 1080 pixels (full HD 16:9) 1296 × 972 pixels (fast mode)
Pixel Size	2.64 × 2.64 µm
A/D Converter (Bit Depth)	10-bits
Exposure Time	25 µs-1.5 s
Live Frame Rates*	Up to 19 fps at 2160 × 1620 pixels (full resolution) Up to 25 fps at 1920 × 1080 pixels (full HD) Up to 40 fps at 1296 × 972 pixels (fast mode)
Data Transfer	USB 3.1 Gen1 Type-C
PC Requirements	CPU: Intel® Xenon, Intel® Core i5, i7, i9, or the equivalent USB 3.1 Gen1 Type-C RAM: 8 GB Recommended: • 4 or more physical CPU cores • 8 GB RAM (dual channel)
PC Control	Windows 10 64-bit
Imaging Platform	• LCmicro • cellSens Entry, Standard, and Dimension v. 3.2 or higher** • Olympus Stream Start, Basic, and Essentials v.2.5 or higher*** • PRECiV Capture, Core, and Pro v1.1 or higher**** • DP2-TWAIN
Dimension (W × D × H)	47 mm × 46 mm × 28.8 mm (1.9 in. × 1.7 in. × 1.13 in.)
Weight	Approx. 33 g (1.16 oz)
Mount	C-mount

*Frame rate may decrease depending on the condition of your PC, monitor resolution, and/or software.
** Service update for v.3.2 required
*** Service update for v.2.5 required
**** Service update for v.1.1 required

LC35 PC Configuration System Diagram



*cellSens, Stream, PRECiV and LCmicro software are not for clinical diagnostic use.
**provided only by downloading from website

Images title page

Top Left: Human Fingertip; Microscope: CX23, Objective: Plan Achromat 10x (NA 0.25), TV-Adaptor: U-TV0.5XC-3, Illumination: Brightfield (LED), Exposure time: 2.3 ms
Botton Left: Chip Die; Microscope: BX51M, Objective: MPLN 20x (NA 0.4), TV-Adaptor: U-TV0.5XC-3, Illumination: EPI (Halogen), Exposure time: 0.7 ms
Right: Cerebellum (Golgi (silver) staining); Microscope: CX23, Objective: Plan Achromat 40x (NA 0.65), TV-Adaptor: U-TV0.5XC-3, Illumination: Brightfield (LED), Exposure time: 13.5 ms

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• Images on the PC monitors are simulated.
• Illumination devices for microscope have suggested lifetimes. Periodic inspections are required. Please visit our web site for details.
• Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer.

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