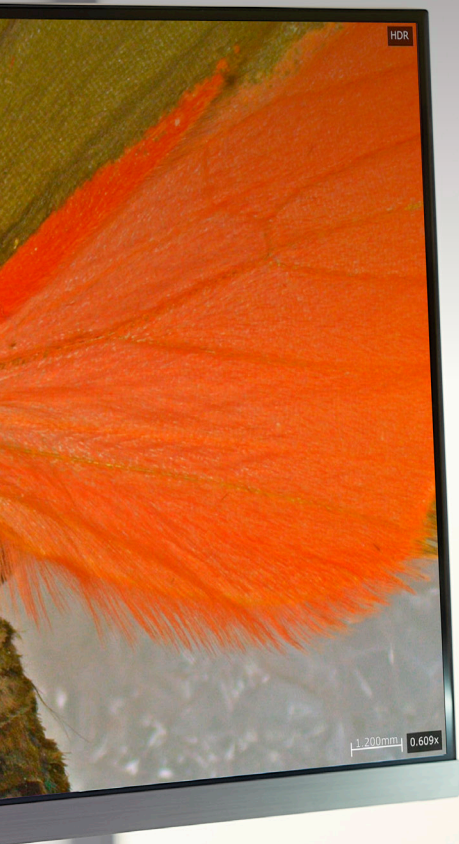


From Eye to Insight

Leica
MICROSYSTEMS

STRAIGHTFORWARD. VERSATILE. TRUSTED.

Ivesta 3 Greenough stereo microscopes





Ivesta 3 Greenough Stereo Microscopes

The Greenough stereo microscopes series, Ivesta 3, has been designed for sorting and screening of model organisms as well as specimen dissection and preparation. It enables you to see the relevant details faster thanks to an optimal 3D perception, requiring less microscope adjustments. It also allows you to handle samples effortlessly beneath the objective. With the Ivesta 3, you can ensure, in a straightforward way, an efficient and reliable documentation of results for life-science applications.



Boost your efficiency

- > Achieve optimal 3D perception of model organisms thanks to the FusionOptics technology
- > Conveniently handle samples with a large working distance of up to 122 mm, ideal for tasks like microinjection and fly sorting

Results you can rely on

- > Discuss quickly opinions and review findings with a fast live image displayed on a monitor
- > Visualize sample movements on the monitor clearly and smoothly thanks to the high frame rate (up to 60 fps), ideal for imaging of *C. elegans*
- > Switch between bright and dark samples quickly and clearly differentiate details in the displayed live image thanks to the fast auto exposure

Specific configurations for your needs

Ivesta 3

For observation only, when no camera is required for documentation.



Ivesta 3 (C-mount)

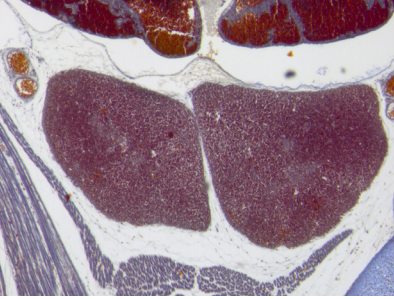
Provides the flexibility to add a camera if needed, turning it into a digital microscope solution.



Ivesta 3 (Integrated camera)

For digital image sharing directly on different devices, e.g., a monitor, mobile device, or computer.





TL3000 Ergo Transmitted Light Base

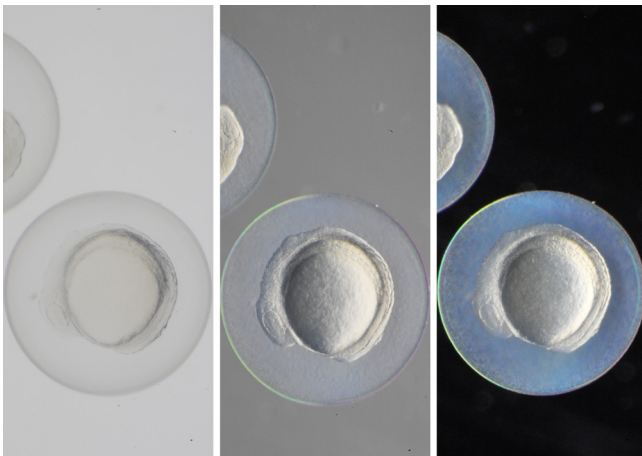


Ivesta 3 Greenough stereo microscope (Integrated camera) with TL3000 Ergo transmitted light base.

A perfect combination with Ivesta 3 to reveal more structural information in specimens, e.g. model organisms, oocytes, etc., which are used for developmental biology and entomology. This combination enables users to observe them with high resolution and contrast as well as natural color fidelity.

- > Intuitive manual operation of contrast methods and brightness
- > High contrast and uncompromised resolution at the same time
- > Large illuminated field of view, with up to 65 mm diameter, enabling entire organisms to be studied with high precision
- > Easy fine-tuning of the contrast with just the turn of a single knob

Three different contrast options



Zebrafish development, 10 somites stage. Follow semantic segmentation in high detail. Courtesy: Vermot Laboratory, IGBMC, Strasbourg, France.

TL3000 Ergo transmitted light base used with:

- > **Brightfield illumination:** See your specimen sharply and with natural colors on a bright surface.
- > **Rottermann contrast:** See outlines and other previously invisible structures of your specimen, ideal for investigating internal structures.
- > **Darkfield illumination:** Discover small light-scattering structures shining brightly in front of a pitch-black background.

Specifications

Characteristics	Ivesta 3	Ivesta 3 (C-mount)	Ivesta 3 (Integrated camera)
Optical system, lead-free	10° Greenough using best-corrected central part of the objective		
Zoom	9:1		
Viewing angle	35°		
Magnification range *	6.1x – 55x		
Maximum resolution	500 lp / mm		
Maximum numerical aperture	0.167		
Working distance *	122 mm		
Object field diameter *	37.6 mm		
Adjustable zoom limits *	Click-stops 10x, 20x, 30x, 40x and 50x		Fully coded zoom
Video/photo outlet	-	50 % video / 50 % visual, permanent	50 % video / 50 % visual, permanent
Weight (camera only)	1.6 kg	1.8 kg	2.2 kg
Standard objectives, lead-free	Apochromats 0.5x, 0.63x, 0.75x, 1.6x, 2.0x		
Ergonomic eyepieces, fixed and adjustable, with cups	10x/23, 16x/16, 20x/12		
Ergonomic eyepieces for eyeglass wearers, adjustable, with eyecups	10x/23, 16x/15,25x/9.5, 40x/6		
Interpupillary distance *	50 mm – 76 mm		
Operating temperature	10 °C to 40 °C (50 °F to 104 °F)		
Storage/Transport temperature	-10 °C to 50 °C (14 °F to 122 °F)		
Relative humidity for storage / operation	10 % – 90 % (non-condensing)		
Use	For indoor use only		
Pollution degree	2		
Altitude operation	0 m to 2,000 m (0 ft to 6,561 ft)		
Live image on an HDMI monitor	-	-	at up to 60 fps (3,840 x 2,160 pixels)
Full-screen image capture	-	-	at 12 MP
Sensor diagonal	-	-	7.81 mm (type 1/2.3" CMOS)
Pixel size	-	-	1.55 µm x 1.55 µm
Input	-	-	5 V DC / 3 A
Power consumption	-	-	15 W
Supported software	-	-	Energisight
Color filter	-	-	IR-cut coating 650 nm, not replaceable
File formats	-	-	JPG, TIF, BMP, MJPG; for overlays also PNG
Compatibility	-	-	USB 3.0, standard USB type C
High-definition connector	-	-	HDMI 2.0a, HDMI plug type A
USB connectors	-	-	4x USB 2 connectors, type B
ON / OFF Button	-	-	1x (on rear side of the microscope)
Multicolor status LED	-	-	1x (on rear side of the microscope)

*Values with basic outfit (no supplementary lens, 10x/23 eyepieces)

CONNECT
WITH US!



Leica Microsystems CMS GmbH | Ernst-Leitz-Strasse 17–37 | D-35578 Wetzlar (Germany)
Tel. +49 (0) 6441 29-0 | F +49 (0) 6441 29-2599

www.leica-microsystems.com