

Yeast Genetics

TDM Tetrad Dissection Microscope E 50i



Complete System

TDM Tetrad Dissection Microscope E 50i

- ergonomic system accelerates tests in yeast genetics
- Micromanipulator mounted on the mechanical stage
- simultaneous operation of fine focus and micromanipulator

Ergonomically optimized, simplifies and accelerates tests in yeast genetics.

The **TDM E 50i** is a complete system for comfortable and efficient tetrad dissection.

This third generation design incorporates Nikon's newest and most ergonomic laboratory microscope, the **ECLIPSE E 50i** with infinity optic.

The **TDM E 50i** includes a precision joystick micromanipulator, a holder for Ø 100 mm Petri dishes, and mechanical stage with "click-stops". The microscope is complete with long working distance optics for viewing through the reversed dish and growing medium.

Micromanipulator

The **Precision Micromanipulator** is mounted on the left side of the stage and both move simultaneously, when the microscope is focused, thus there is no need for a fixed stage. Other than the previous designs, the sideways movements are led by ball bearing slides, whereas the joystick allows for a smooth and hysteresis-free adjustment of Y- and Z-axis. The X-axis is adjusted by turning a knob.

The **Mechanical Stage** has low coaxial control knobs, which are tension adjustable. The stage is indexed with "click-stops" every 5 mm on the X- and Y-axis. Petri dishes with Ø 100 mm of various manufacturers can be used, because of the unique design of the dish holder.

Nikon's new patented one-side fine focus allows for the operation of the stage and the fine focus with one hand.

Microscope

The **Nikon Microscope ECLIPSE E 50i** is comfortably designed with a 25° binocular body. Options are available to adjust the height of the eyepieces for even the tallest of operators. Focusing and micromanipulation can be done with both arms resting on the bench top.

The **TDM E 50i** comes with an Abbe condenser, which has been modified so that it provides proper Köhler illumination over the extended distance to the object.

Stand and stage are built for right-hand operation (left-hand operation optional).



Mechanical stage with micromanipulator

Technical Data

Typ	overall magnification max. 200x
Oculars	CFI oculars 10x, field of view 22 mm
Object lens of survey	CFI Plan Achromat 2x, numeric aperture 0.06, working distance 7.5 mm
Object lens for work	CFI Achromat LWD 20x, numeric aperture 0.40, working distance 3.9 mm (at a thickness of the cover glass of 0.17 mm)
Weight	approx. 17 kg
Power	230 V, 50-60 Hz

Ordering Information

	Cat.-No.
TDM Tetrad Dissection Microscope E 50i	3.090 200
Micro needle (qty=10)	3.090 300
Micro needle holder	3.090 400

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