

STEREO/INVERTED MICROSCOPE



Descriptions

Inverted microscopes are constructed with the tip of the objective pointing upward so as to view the specimen from below. The objective is underneath the stage and light is directed on the specimen from above. This type of microscope is suitable for observation and micromanipulation of living cell and tissue cultures in Petri dishes, microtiter plates, etc. Inverted microscopes are invaluable in the laboratory for cell analysis. Choosing an inverted microscope requires taking into account the magnification by the objective lenses. A typical inverted microscope comes with three to six objective lenses, which range from **4x to 40x**.

Compound Microscope is a unique diascopic microscope with both top and bottom light illumination. It uses the CF160 optical system which is highly evaluated for its unique concept of high NA combined with long working distance has further evolved to achieve the apex in long working distance, chromatic aberration correction, and light weight

Further Information

- Dr. Alina Wagiran

Brand-Model

NIKON

Basic Specifications

Inverted Microscope

Optical : CF160 Infinity Optical System

Focusing : Via nosepiece up/down movement
Stroke (manual): up 8mm, down 3mm
Coarse stroke: 5.0mm/rotation
Fine stroke: 0.1mm/rotation
Minimum fine reading: 1µm

Focusing stroke: Up 2 mm/Down 13 mm, coarse: 37.7 mm per rotation, fine: 0.2 mm per rotation, minimum reading: 2 µm

With coarse focus knob torque adjustment ring and stage vertical movement stopper

Illumination pillar : TI-DS Diascopic Illumination Pillar 30W, TI-DH Diascopic Illumination Pillar 100W

Eyepieces lens :CFI 10x, 12.5x, 15x

With diopter adjustment

- E2-CFI 10X (20)^{*2}, E2-CFI 15X (12)^{*2}
- CFI 10X (22)^{*3}, CFI 12.5X (16)^{*3}, CFI 15X (14.5)^{*3}

Compound Microscope

Optical : CF160 Infinity Optical System

Focusing : Coaxial coarse/fine focusing (located on both sides), cross roller guide

Focusing stroke: Up 2 mm/Down 13 mm, coarse: 37.7 mm per rotation, fine: 0.2 mm per rotation, minimum reading: 2 µm

With coarse focus knob torque adjustment ring and stage vertical movement stopper

Illumination : High luminescent white LED illuminator (Eco-illumination)

- E-mail : alina@utm.my

- Built-in fly-eye lens
- Up to two 45 mm diameter filters can be installed*¹
- Light Intensity Management (LIM) feature included

With diopter adjustment

- E2-CFI 10X (20)*², E2-CFI 15X (12)*²
- CFI 10X (22)*³, CFI 12.5X (16)*³, CFI 15X (14.5)*³

Equipment Website (Manufacturer)

<https://www.microscope.healthcare.nikon.com>

Types of samples

Tissue Cultures in Petri dish, microtiter plates,

Location

Analytical Service Laboratory
(03-102-01)

Operator

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