

**MICROSCOPIO MONOCULAR ZUZI
ZUZI MONOCULAR MICROSCOPE
MICROSCOPE MONOCULAIRE ZUZI**

REF. - CODE - RÉF. - HBB003
MODELO - MODEL - MODÈLE - 116

Zuzi



Este manual es parte inseparable del aparato por lo que debe estar disponible a todos los usuarios del equipo. Le recomendamos leer atentamente el presente manual y seguir rigurosamente los procedimientos de uso para obtener las máximas prestaciones y una mayor duración del mismo.

This manual should be available for all users of these equipments. To get the best results and a higher duration of this equipment it is advisable to read carefully this manual and follow the processes of use.

Ce manuel est une partie indissociable de l'appareil et doit être mis à la disposition de tous les utilisateurs de l'équipement. Nous vous recommandons de lire attentivement ce manuel et de suivre scrupuleusement les procédures d'utilisation afin d'obtenir des performances maximales et une plus longue durée de vie de l'appareil.

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I. APPLICATION

The Zuzi biological microscope model 116 has a modern arc frame and a 30° inclined, 360° rotatable monocular head. Double layer mechanical stage and coaxial coarse/fine focusing knobs make the operation easy. It is also provided with high quality achromatic objectives, a wide field eyepiece and a LED lamp with adjustable brightness, which guarantee the best image. It can be used with rechargeable batteries (type AA, 1.5V); the batteries are charged while the microscope is connected to the mains. It is widely used for examinations, teaching demonstrations in colleges and universities, healthcare establishments, research institutes and departments of forestry and agriculture.

II. SPECIFICATIONS

1. Objectives

Category	Magnification	Numerical aperture	Working distance	Remark
Achromatic Objectives	4X	0.10	37.5	-
	10X	0.25	7.316	-
	40X	0.65	0.632	Spring

2. Eyepiece

Category	Magnification	Diameter of view-field
Wide Field Eyepiece	WF10X	Diam. 18 mm

3. Total magnification

Eyepiece	Total magnification	Objectives	4X	10X	40X
	10X		40X	100X	400X

4. Tube length: 160mm

5. Objective to primary image distance: 195mm

6. Stage size: 125mm x 115mm, moving range: 70mm x 20mm

7. ABBE condenser, N.A. = 1.25 with iris diaphragm

8. Coarse/fine focal range: 10mm

9. Illumination: 1W LED, adjustable brightness

10. Net weight: 2.75kg

III. STRUCTURE (FIGURE SHOWN BELOW)

The Zuzi microscope model 116 is composed of nine main component parts:

1. Stand: It's the base bearing total weight of microscope, which built in illumination system, electronic parts and connecting control.

2. Rise and fall support: It connects with stage, arm and condenser. Stage and condenser can move vertically through it for proper operation.

3. Arm: It's the central part connecting the frame and every main component part. It's provided with coaxial coarse/fine focus system, with tension adjustable knob and limited stopper. It guarantees the stage rise and fall smoothly.

4. Viewing head: 30° inclined, 360° rotatable monocular head.

5. Eyepiece: Uses a WF10X wide field eyepiece with pointer.

6. Nosepiece: Triple revolving nosepiece with comfortable and precise rotation.

7. Objective: 4X, 10X, 40X high-quality achromatic objectives make the imaging clear.

8. Stage: Uses a double layer mechanical stage, it can be operated much easily by coaxial knob in low position.

9. Condenser: ABBE condenser N.A. = 1.25 with iris diaphragm and filter holder.



- 1- Stand
- 2- Rise and fall support
- 3- Arm
- 4- Viewing head

- 5- Eyepiece
- 6- Nosepiece
- 7- Objective
- 8- Stage
- 9- Condenser

IV. OPERATION INSTRUCTIONS

1. Insert the eyepiece into the eyepiece tube, and screw objectives into the nosepiece in sequence of different magnification from low to high. Then put the specimen on the stage, secure it in the position and move it to the center of stage.
2. Turn on the power switch and adjust the brightness from dark to bright slowly. After working, you must adjust the brightness to a little dark before you turn it off.
3. Observe the specimen from the lower magnification objective first and move the specimen to the center of view field, then rotate to a higher magnification objective. You may use the fine focusing knob to obtain a clear image.
4. To obtain a bright and clear image, the illumination must be adjusted. When a different objective is chosen, you should adjust the iris diaphragm of the condenser and the brightness of the light.
5. When the lamp needs to be replaced, you should shut off the power switch and replace it after the lamp is cool. NOTE: The contact must be firmed, and the filament center should be adjusted.

V. MAINTENANCE

1. Exam the connection of every component part is firm when opening the package and installing the microscope. Be careful, not overexert to avoid breaking the instrument.
2. Operate correctly and put the dust cover on the microscope after work to prevent dust strain.
3. Keep the instrument in a dry and cool place and away from the pollution and corrosion.
4. Send the instrument to the authorized Technical Service if it goes out of order.
5. When the objectives and eyepiece won't be used for a long time, please place them into a dry box, and put the dust cover onto the microscope.