

ESTEREOMICROSCOPIO CON ZOOM
ZOOM STEREO MICROSCOPE
STÉRÉOMICROSCOPE AVEC ZOOM

REF. - CODE - RÉF. HDD011, HDD012

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. It is advisable to read carefully this manual and follow the use instructions in order to get the best results and extend the working life of the equipment.

Ce manuel est une partie inséparable de l'appareil et doit être disponible pour tous les utilisateurs de l'équipement. Nous vous recommandons de lire attentivement ce manuel et de suivre strictement les procédures d'utilisation afin d'obtenir des performances maximales et une plus longue durée de vie de l'équipement.

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Thank you for choosing this equipment. We sincerely wish that you enjoy your stereomicroscope Zuzi Series Z with zoom. We highly recommend that you look after this equipment according to what is stated in this manual.

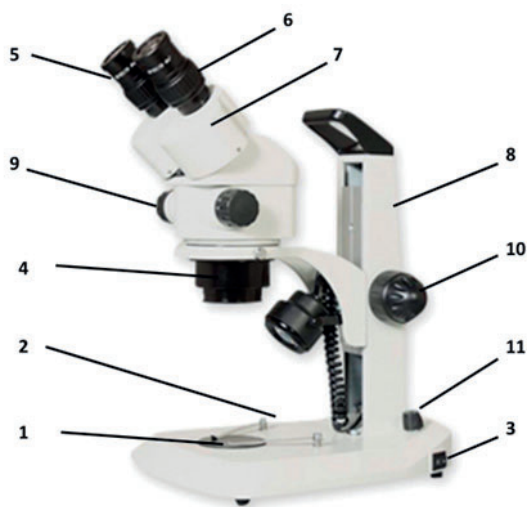
Zuzi develops its products according to the CE marking regulations as well as emphasizing the ergonomics and safety for the user.

The correct use of the equipment and the quality of the manufacturing materials will allow you enjoying this equipment for years.

The improper use of the equipment can cause accidents and electric shocks, circuit shorts, fires, damages, etc. Please, read Maintenance for safety information.

A. APPLICATION

Stereomicroscopes are widely used in electronical industry, for the assembly and inspection of precision instruments, dissection and study of propagation, also applied in the field of education, schools, carving, geology, archeology etc.

B. PARTS OF THE EQUIPMENT

1. Working stage
2. Base
3. On/off switch
4. Objective
5. Eyepiece
6. Diopter adjustmet
7. Prism house
8. Pillar
9. Magnification knob
10. Focusing knob
11. Dimmer



Trinocular Head

C. TECHNICAL SPECIFICATIONS

Code	HDD011	HDD012
Head	Binocular	Trinocular
	45° inclined, rotatable 360°	
	Option to place it at two different heights	
Interpupillary distance	55-75mm	
Diopter adjustment	± 5 dps	
Zoom ratio	1:6.4	
Eyepiece	WF10x/20mm	
Objective	1x	
Zoom	0.7x-4.5x	
Working distance	100mm	
Stage	White/black, semitransparent plastic	
Illumination	Incident & transmitted LED 3W	
Power supply	110V-240V, 50/60Hz	

D. OPERATION

1. Environment

Dry and dustless room temperature between -5°C - +40°C.

2. Power Control

Connect the plug to the socket on microscope.

You can control brightness of incident and transmitted bulb by turning dimmer.

3. Selection of working stage

1- Normally, microscope is equipped with semitransparent plastic stage locked by screw when packed. Use transmitted light to observe transparent objects.

2- Black and white plate is packed with the microscope for user's selection. To use it, please loosen the screw and take off the glass plate. Normally, use the white side. If you need to use the black side to observe white or other transparent objects and to improve the contrast, use incident light.

4. Placement of object and adjustment of head height

Put the clean object in the middle of stage and use clip if necessary. The stereomicroscope offers the possibility to place the head at two different heights in the stand, allowing the observation of objects of a wide range of sizes. If you need to change the height of the head to adapt to the size of the object, loosen the head screw, move the head and hold it in the desired position with the screw.

5. Use of eye's covers

The eye's covers are packed with the microscope as accessories. Please put them on the eyepiece to use them.

6. Focus, change magnification, adjust diopter & interpupilar distance

Place the specimen on the centre of the working stage, rotate the magnification knob (or objective cover) to a high zoom 4.5x, then turn the knob slowly till you can see a clear image in the right eyepiece, then, observe with the left eyepiece and adjust diopter if image is not clear. Then, move the left and right prism house till the interpupilar distance is suitable. If you need to change the magnification, just turn the magnification. The head can rotate 360° when the screw on the holder is loosened.

7. Additional objectives (not included)

You can use optional objectives (not included) for the observation at different magnifications. The available objectives for the estereomicroscope series Z are: 0.5x, 1.5x y 2x.

E. REPLACEMENT OF THE BULB OR FUSE

Warning: Take off the plug before replacing the bulb or fuse. Wait for the bulb to cool off in case of burnt.

1. Replace the incident bulb:

Firstly, take off the lampshade, replace the burnt bulb with a new bulb by fully inserting the feet into the porcelain socket. Then, put the lampshade back.

2. Replace the transmitted bulb:

LED bulb: Firstly, loosen the screw, then take off the frosted glass and filter, take out the burnt bulb and replace it with a new bulb by fully inserting the feet into the porcelain socket. At last, put back the filter and frosted glass and screw.

3. Replace the fuse:

Take out the wire and the fuse case inside, replace burnt fuse with new fuse and, then, put the fuse case back.

F. MAINTANCE AND STORAGE

1. The stereomicroscope is a precision instrument, it should be placed carefully and avoid impact during transportation.
2. Put it in a dry and clean place, avoid high temperature and shock.
3. Do not touch the lens directly.
4. Keep the optical surface clean. If there is dust on the surface, you can clean it with an air blower.
5. Do not use organic solvents to wipe the surface of the microscope, especially the plastic surfaces, please use neutral cleaning products.
6. All the optical parts and mechanisms are adjusted, and you cannot take them apart by yourself.
7. Add grease on moving parts regularly.
8. Put the microscope in a cool and dry place and cover it with a dust cover when it is not going to be used for a long time.