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**Ryeco**stereo-microscope ecoline RST20 RST30 RST40



Ryeco RST30

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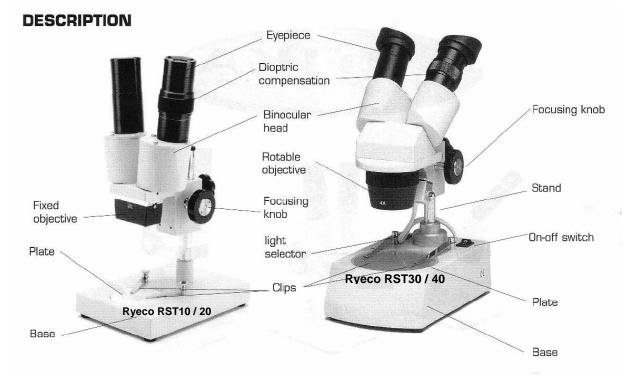
Ryeco RST40

# **Instruction Manual** Ryeco RST20, RST30 & RST40

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# INTRODUCTION

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Ryeco Stereomicroscopes series RST20 and RST30 7 RST40 are good quality stereomicroscopes with different objectives. These stereomicroscopes are the good choose for primary and secondary class teaching (Swiss Standard).

## Unpacking and assembling of the microscope

The components for series stereo Ryeco RST are shipped detached for protection. open the Styrofoam packing with care and do not leave any components attached to the packing being removed. Do not discard any of the packing materials until all components have been located. If damage occurs during transit, contact both the carrier and your supplier immediately.

When handing the components, especially all the optical parts, avoid touching any lens surface with naked hand or fingers. Any fingerprints or grease stains will negatively affect the image quality (see Ryf Cleaning Sets).

After unpacking the stand, put it on a good stable table. Loosen the lock screw of the focusing carrier, adjust the height of the focusing carrier and lock the lock screw again.

## Alignment and operation

#### Interpupillary distance

Move the two eyepiece tubes until only one circular field can be seen through the two eyepieces. If two circles appear the interpupillary distance is too big, and f 2 overlapped circles appear the interpupillary distance is too small.

#### Focusing the microscope

Try to focus the sample at the highest magnification with the focusing knob. If it cannot be done, adjust the height of the microscope along the vertical post.

#### Magnification

Select the desired magnification (when possible...) by adjusting the rotary objective revolver.

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## Knowing your microscope

For Ryeco series stereomicroscope the binocular is built together with the stereo body to form a single piece named "Stereo-head'.

## Stand, illuminator

The stand is equipped with an stainless steel pole and the focusing mechanism (with stereo head) can be moved vertically to obtain the right focusing. The fine focusing is obtained by the dedicated knobs. The STEREO series is formed by models with illumination system and models without it as showed in the summary table.

The light can be incident, transmitted and if necessary is possible to use an external cold light source. By using the correct light is possible obtain the better image of your sample.

# Cleaning and care of the microscope

#### Changing the bulb

Before changing the bulb, make sure that the power switch is off and the <u>Power cord has been</u> disconnected from the main supply.

For Incident light, unscrew the lamp collector piece out, remove the old light bulb from the socket, and carefully plug the new bulb in, screw the collector piece back after changing the bulb.

For transmitted light, remove the stage glass plate by pushing down its rear side, and move the old bulb from the socket and carefully plug the new bulb in.

Never touch the glass surface of the bulb with naked hand, any grease stain brought onto the bulb by the naked hand will negatively affect the heat dissipation, and thus, greatly shorten the life span of the bulb. Clean the bulb surface with Ryf Lens Cleaner or alcohol and tissue if the user has touched the bulb surface accidentally.

#### <u>Cleaning</u>

If dust is found on the optical surface, try to remove by air blower or better with canned air (Ryf cleaning Set).

For fingerprint, grease stain or dust which cannot be removed by the air blower possible methods are recommended:

- To breathe lightly on the glass surface and wipe with a clean piece of cloth, lens paper or cotton swab.
- Please notice that small cotton fiber may be left onto the lens surface if cotton swab is used.
- Use a cotton swab or lens paper dip with a small amount of absolute alcohol (or better with Ryf cleaning Set) and clean the lens surface carefully. No other aggressive solvents should be used.
- In no circumstances should the user clean any lens surface with dry cotton swab, cloth or lens paper. This will scratch the lens surface causing irreparable damage.
- Water is not recommended fop cleaning of lens as it will leave some water stain on the lens surface and if water residue is left on the lens, fungus can grow causing irreparable damage.