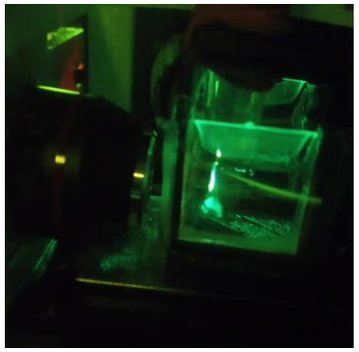
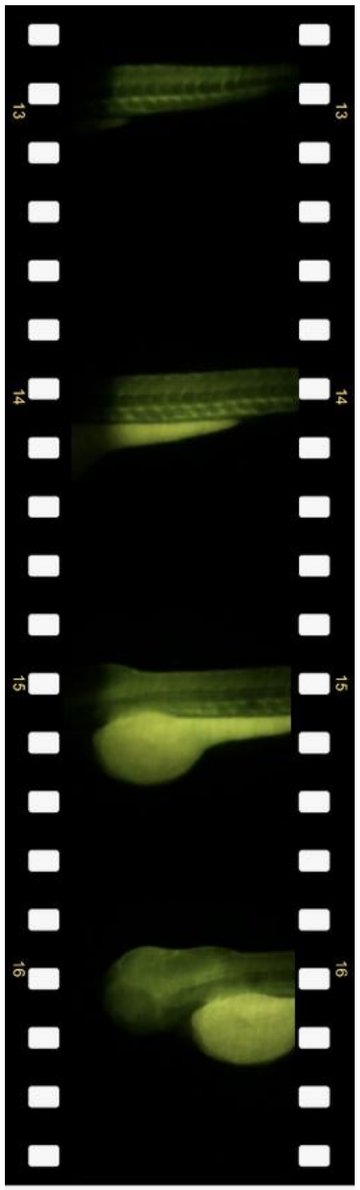
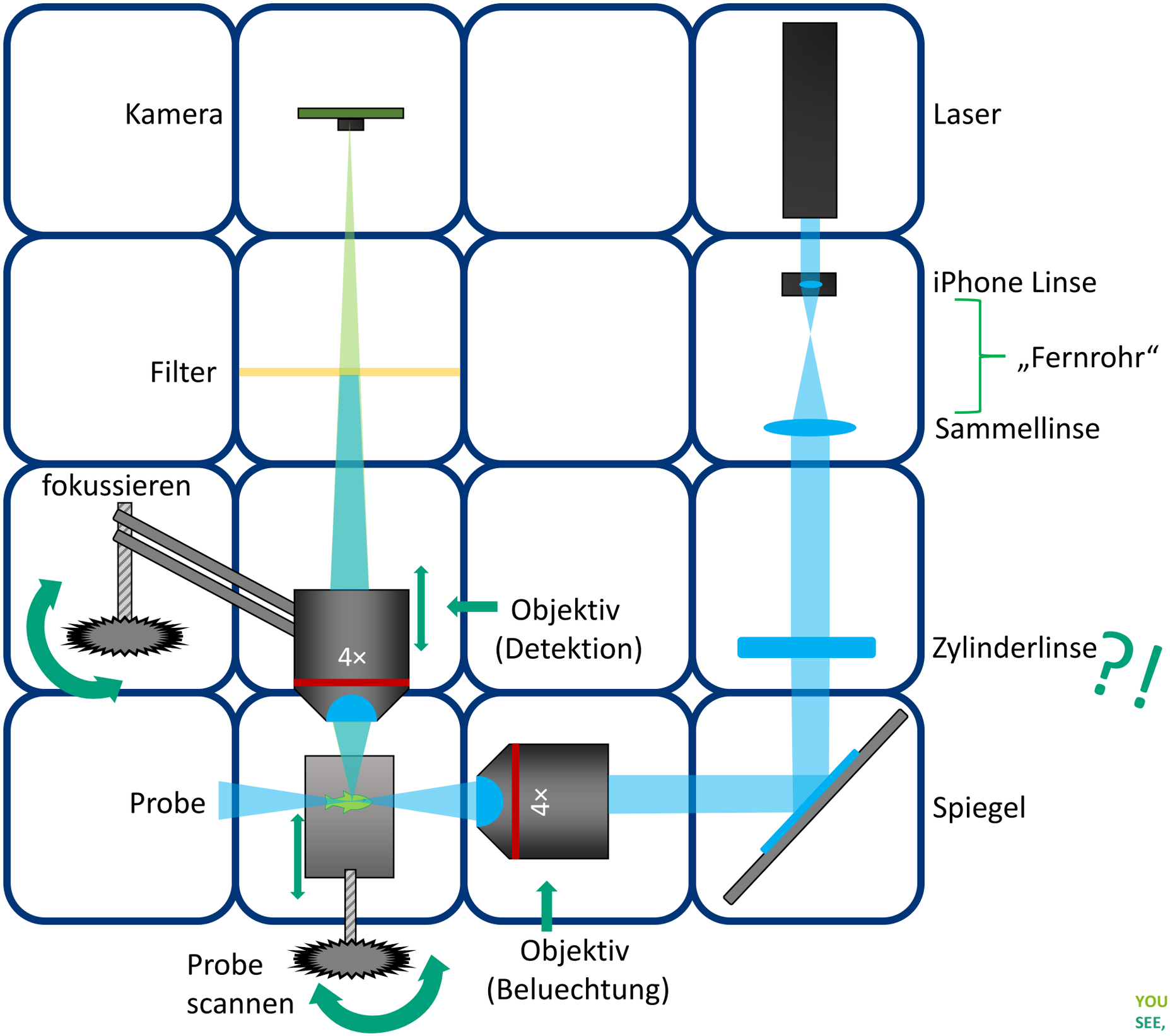
Lichtblattmikroskop



Fluoreszierend
Zebrafisch





useetoo.org

YOU
SEE,
TOO

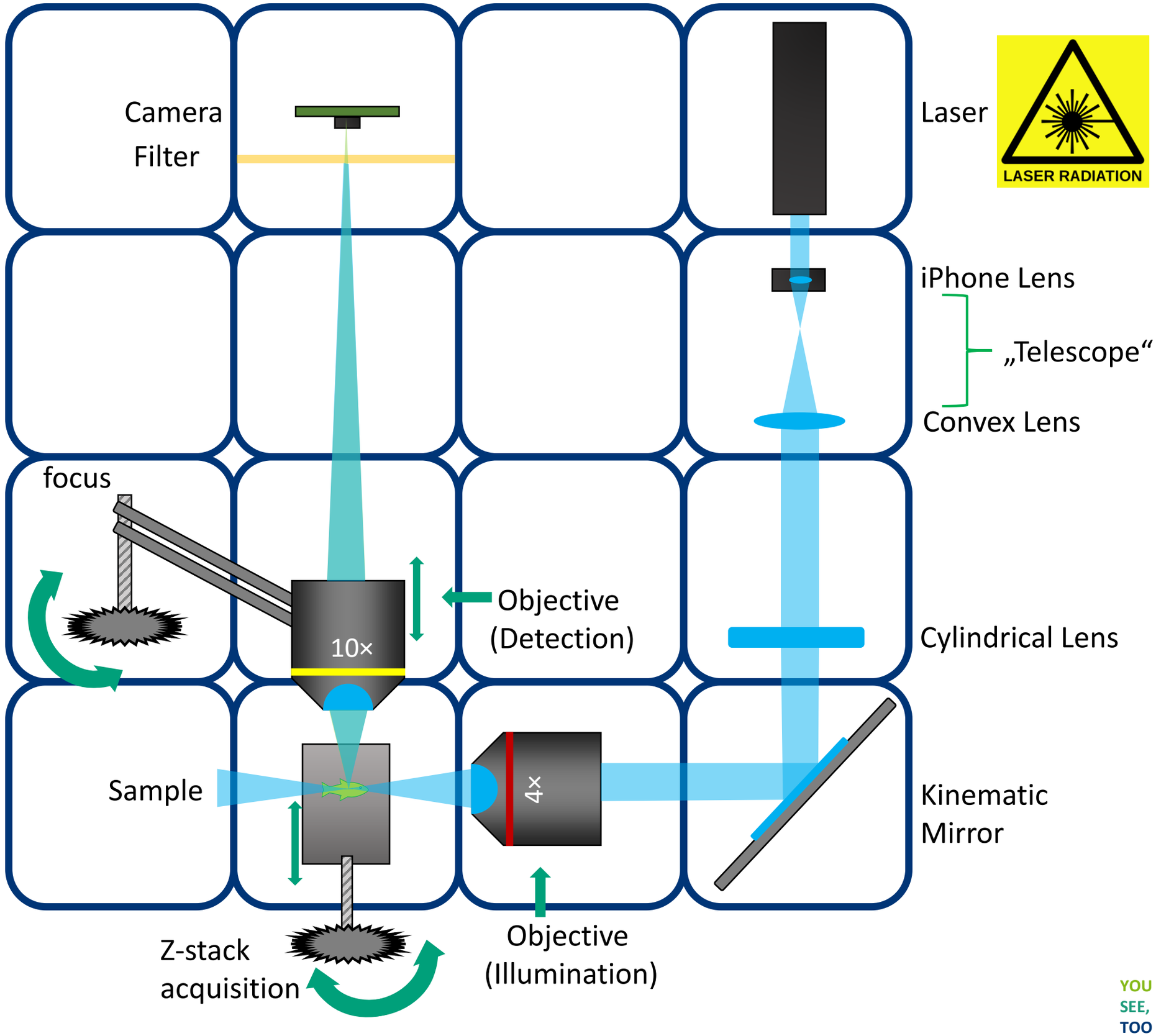
Light sheet Microscope

Assembly

1. Laser
2. Beam Expander
3. Cylindrical Lens
4. Mirror
5. Illumination Objective
6. Sample Stage
7. Z-Stage
8. Camera + Filter

Alignment

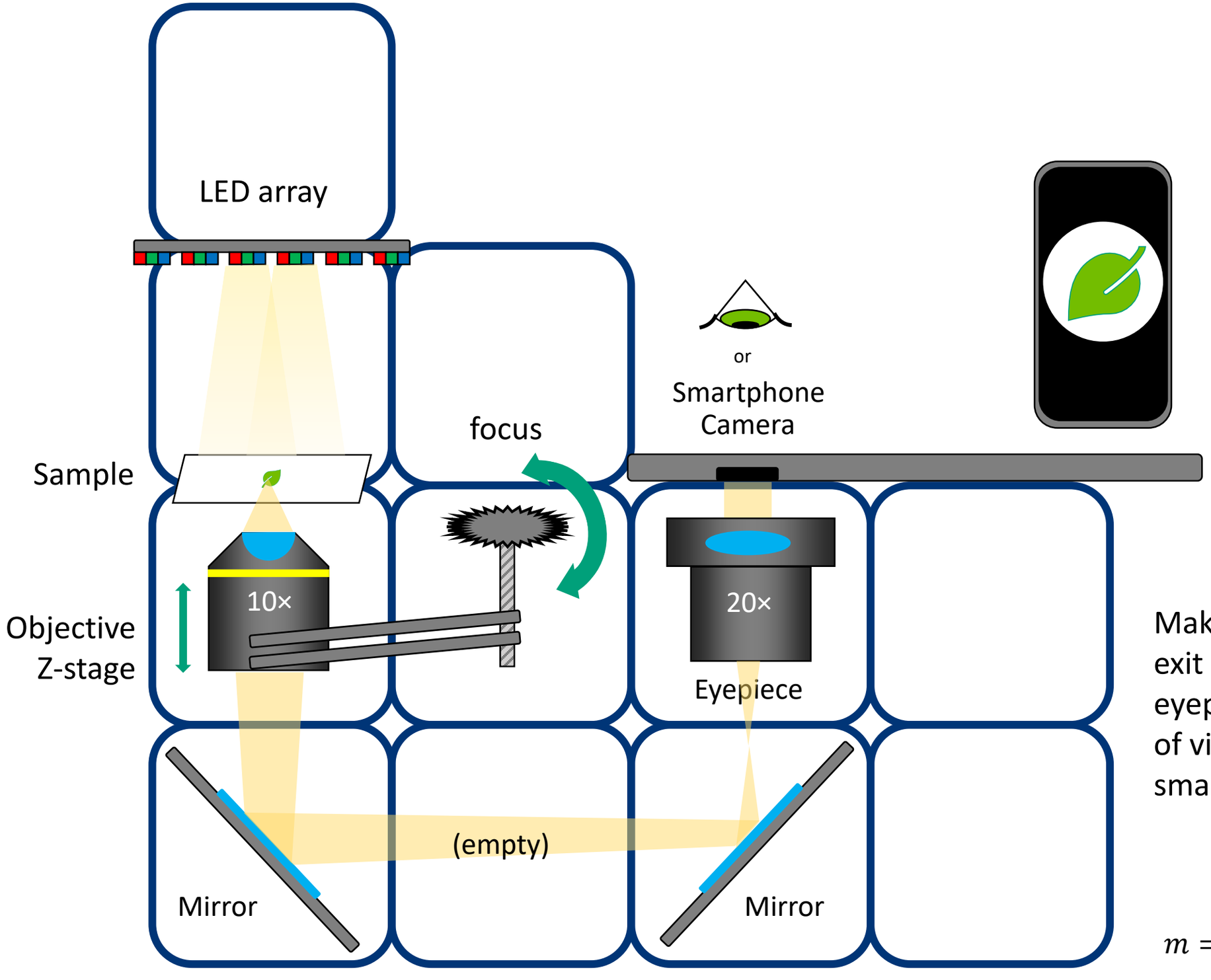
1. Laser centered
2. Beam colimated
3. Light sheet focused in the center of the S-stage, in the height of the detection objective
4. Sample plane focused on camera
5. Light sheet aligned to the sample plane



useetoo.org

YOU SEE, TOO

Smartphone Microscope



„Finite-corrected“ microscope

The smartphone camera has a short focal length lens to create an image on the camera sensor. The imaging properties are therefore similar to those of the human eye.

Make sure that the exit pupil of the eyepiece fills the field of view of the smartphone camera.

Magnification

$$m = m_{Objective} \times m_{Eyepiece}$$