

(a) Collembola counting options

Number of directory levels used to name the .xls files:

Image Pre-Treatment:

☐ Smooth ☐ Gaussian blur

Sigma (radius) for gaussian blur:  pixels

Scaling method:

Background calculation:

☒ Selection of a region of interest (roi)

Particle analysis:

☒ Automatic thresholding

Or manual thesholding:

Threshold value:

☐ Moving particle darker than the background

(b) Automatic scaling specifications

Measure of the scaling object (mean rectangle side or radius):  user unit

☐ Scaling object is a circle

Approximate upper-middle coordinates of the scaling object :

X-coordinate:

Y-coordinate:

Approximate lower-middle coordinates of the scaling object :

Y-coordinate:

Lower area boundary:  pixels<sup>2</sup>

Upper area boundary:  pixels<sup>2</sup>

Threshold value:

(c) Roi selection specifications

Approximate upper-left coordinates of the scaling object :

X-coordinate:

Y-coordinate:

Approximate lower-right coordinates of the scaling object :

X-coordinate:

Y-coordinate:

Lower area boudary:  user unit<sup>2</sup>

Upper area boundary:  user unit<sup>2</sup>

Circularity tolerance: