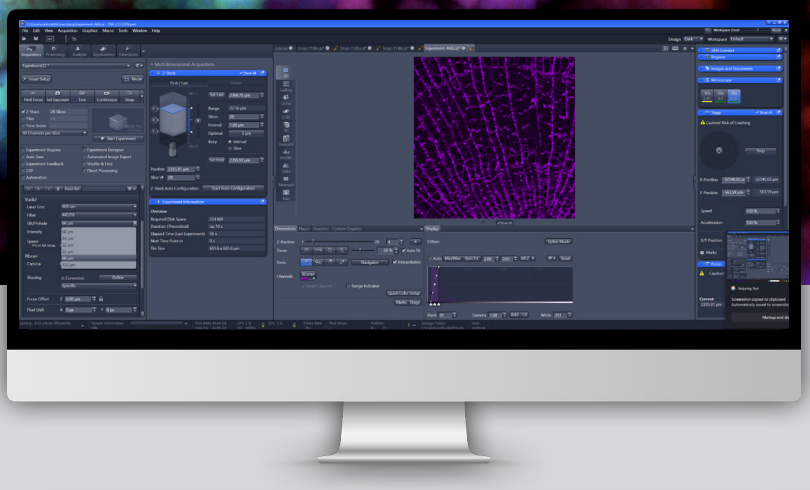
Confocal nl

# Line REscan in ZEN



**All through ZEN**
Acquisition & analysis

**Image fast**
Rapid cellular dynamics

**Go 1 mm deep**
Minimal phototoxicity

**Reach 95% QE**
sCMOS-based detection


## Fast and gentle live cell imaging through ZEN workflow

### Control your Line REscan confocal microscope

Easily control your REscan confocal unit, lasers, and cameras, thanks to the seamless integration.

### Observe rapid dynamics

Achieve fast acquisition for live samples without switching software environments.

### Image deep with close to zero phototoxicity

Reach up to 1 mm deep in your sample with gentle conditions for live samples.

### Analyze your data

Use ZEN analysis toolkit either on standalone Line REscan confocal or in combination with Airyscan.

Designed to
respect your cells

www.confocalnl.com

# Line *RE*scan in ZEN

Confocal nl

## AION

**The new standard in confocal microscopy**


>150 fps at 2400 x 2400 px

FN22 on Axio Observer

Switchable pinhole, perfect confocality with any objective

Up to 8 lines 400-1100 nm (VIS & NIR)

**Ideal for**:
Complex experiments demanding versatile solutions, VIS & NIR experiments,
Fast events across wide FOV

## NL5+

**Deep and fast 3D live cell imaging**


40 fps at 2048 x 2048 px

FN18 on Axio Observer

Motorized filter wheel with 6 or 7 position for 25 mm filters

Up to 4 laser lines (400-750 nm)

**Ideal for**:
Live cell time lapse, Thick samples, Deep imaging, Demanding 3D datasets, Fast signaling with fixed line speed

240 nm (170 nm after deconvolution)

Over 1000 fps fixed line (camera limited)

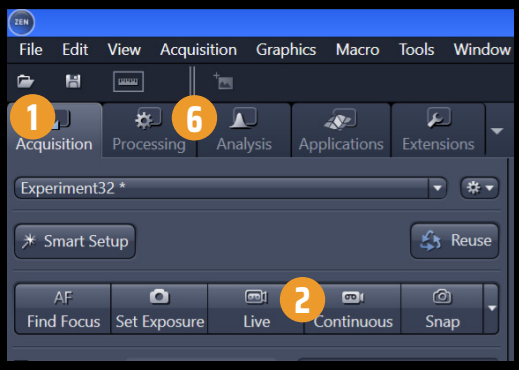
95% QE sCMOS detection

Motorized widefield/confocal switch

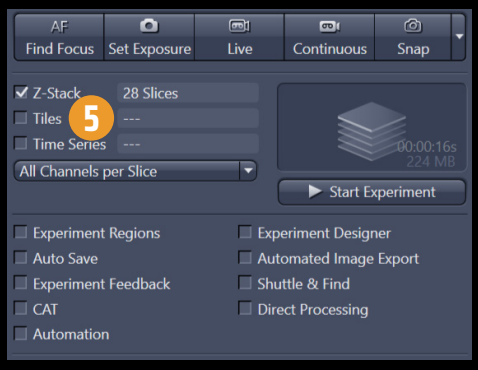
Low phototoxicity

## ZEN workflow: one platform complete control

**1** On the Acquisition tab, choose REscan **2** Find your sample in Continuous or Live mode **3** Configure Tracks **4** Set slit size, laser intensities, and acquisition speed **5** Set multi point, time lapse, z stack, or tiling **6** Analyze the data in ZEN environment.








## Applications

• Cell biology • Developmental biology • Live cell imaging • Deep Live cell confocal imaging • Neurobiology • Plant biology • $Ca^{2+}$ imaging • C. elegans • Organoids • Cleared tissue

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