

# Nikon TI (Fluorescence)

## Illumination

- 405 nm LED (395-410nm)
- 488 nm LED (475-500nm)
- 561 nm LED (535-575nm)
- 640 nm LED (605-660nm)

## Filters

## Lenses

- 4x Plan Apo (NA 0.2, WD 20mm)
- 10x Plan Apo (NA 0.45, WD 4mm)
- 20x Plan Apo (NA 0.75, WD 1.0mm)
- 40x Plan Apo (NA 0.95, WD 0.21mm)
- 60x Plan Apo (NA 1.45, WD 0.13mm)
- 100x S Fluor (NA 0.5-1.3, WD 0.16mm)

## Detector

- Photometrics Evolve 512 EMCCD, 16-bit depth, 16.5 $\mu$ m pixel pitch

## Pixel Sizes

- 4x = 3.97 $\mu$ m
- 10x = 1.6 $\mu$ m
- 20x = 0.796 $\mu$ m
- 40x = 0.40 $\mu$ m
- 60x = 0.26 $\mu$ m
- 100x = 0.16 $\mu$ m

## Extras

Stagetop incubator w. CO<sub>2</sub> suitable for all samples, DIC optics, LambdaXL with excitation and emission wheel

# Nikon TI (Colour)

## Illumination

Transmitted light (Köhler aligned)

## Filters

Not applicable

## Lenses

- 4x Plan Apo Dry (NA 0.2, WD 20mm)
- 10x Plan Apo Dry (NA 0.45, WD 4mm)
- 20x Plan Apo Dry (NA 0.75, WD 1.0mm)
- 40x Plan Apo Dry (NA 0.95, WD 0.21mm)
- 60x Plan Apo Oil (NA 1.45, WD 0.13mm)
- 100x S Fluor Oil (NA 0.5-1.3, WD 0.16mm)

## Detector

- Nikon DSRI2 colour CMOS, 7.3 $\mu$ m pixel pitch @ 4908 x 3264  
22 $\mu$ m pixel pitch @ 1636 x 1088

## Pixel Sizes

- 4x = 0.73 $\mu$ m OR 2.19 $\mu$ m
- 10x = 0.3 $\mu$ m OR 0.90 $\mu$ m
- 20x = 0.15 $\mu$ m OR 0.45 $\mu$ m
- 40x = 0.07 $\mu$ m OR 0.21 $\mu$ m
- 60x = 0.05 $\mu$ m OR 0.15 $\mu$ m
- 100x = 0.03 $\mu$ m OR 0.09 $\mu$ m

## Extras

Stagetop incubator w. CO<sub>2</sub> suitable for all samples, DIC optics, LambdaXL with excitation and emission wheel