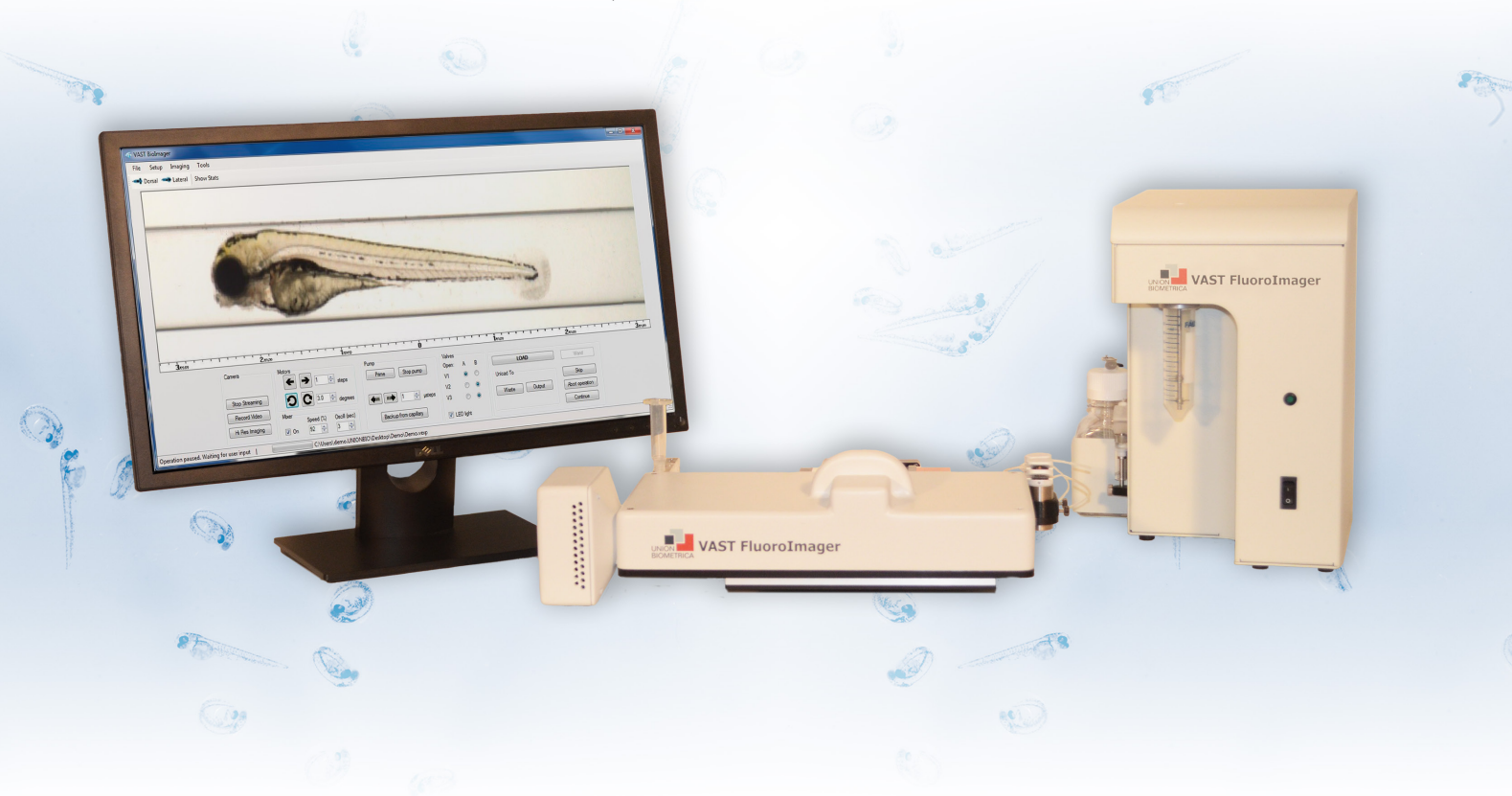


# VAST FluoroImager

Automated Positioning for Fluorescent Imaging

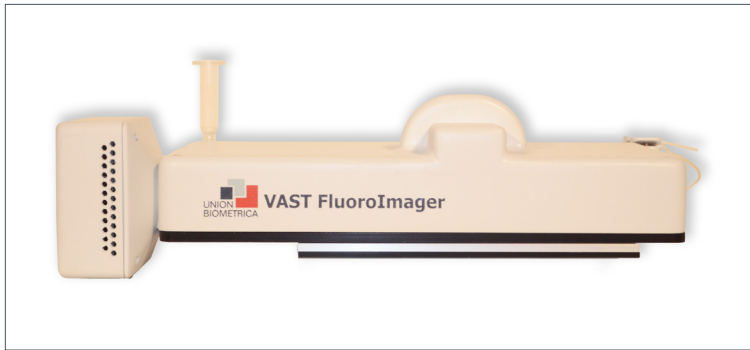


**The VAST FluoroImager** automates positioning of 2-7 dpf zebrafish larvae. The larvae are oriented accurately and reproducibly within a glass capillary using a set of rotational motors.

**Included with the VAST FluoroImager:**

- Ability to load, position, and rotate a larva to a user selected orientation
- On-board 10 $\mu$ m resolution camera captures precise images
- 360 $^{\circ}$  imaging consisting of brightfield and 1-3 fluorescent channels
  - Channel LEDs: 385nm (Violet), 470nm (Blue), 565nm (Green)
  - Channel filters: 445nm, 512nm, 615nm
- Ability to generate Optical Projection Tomography (OPT) datasets with the VASTomography software
- Cellular level imaging by mounting to an upright microscope
- Seamless larva ejection and reloading from bulk reservoir

# VAST FluoroImager



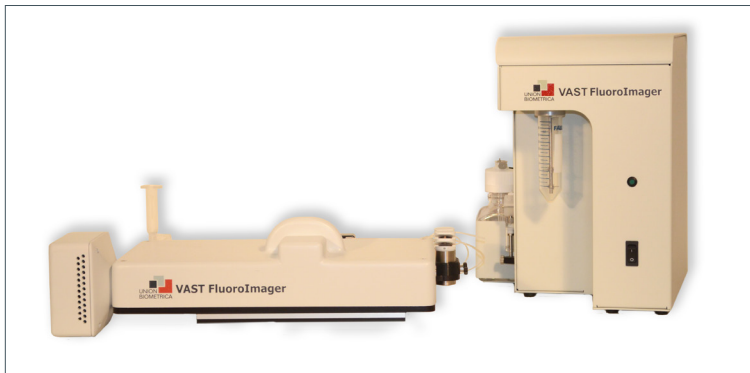
## ▲ Capillary/fluorescence illumination module

Composed of the capillary unit of the VAST BioImager with the addition of the fluorescence module containing the LEDs and detectors for capturing fluorescence from the larvae.



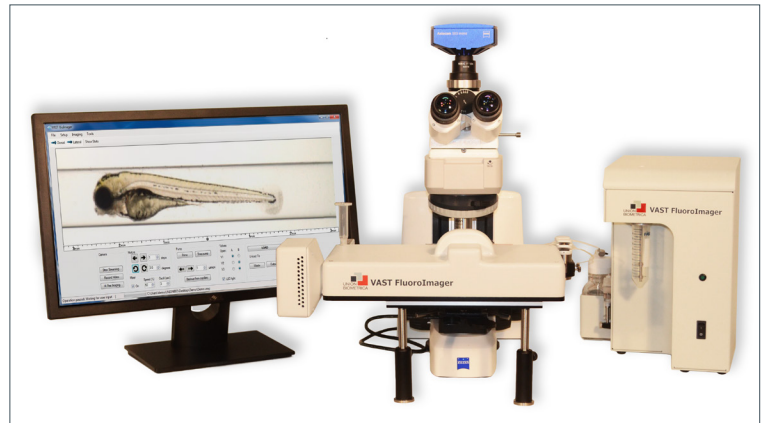
## ▲ Side View

Shows the capillary module on the right and the fluorescence illumination module to the left.



## ▲ Capillary/Fluorescence Illumination Module (left) and Control Module (right)

Samples are introduced via a standard 50 ml sample cup with a gentle, suspended stirring mechanism.



## ▲ FluoroImager mounted on an upright microscope

For cellular level imaging. Many different manufacturers make upright scopes that are compatible with this system.

### Instrument Size

#### Control Module:

30 x 28 x 33 cm (depth x width x height) Weight: 5.9 kg

#### Capillary/fluorescence illumination Module:

32 x 47 x 12 cm (depth x width x height) Weight: 6 kg