

The challenge: Genitalia are key for differentiating species but the combination of 3-dimensionality and ultra-fine detail make them difficult to image.

Hand drawings are tedious, not digital, and may overlook a key feature.

Digital imaging requires complex composite software and specialists who knew how to use it. Because it is so time consuming, fine-tuning to make sure you got just the right shot is typically not an option.

(Hand drawing?)

Figure 1. Bee imaged with conventional fiber optic illumination

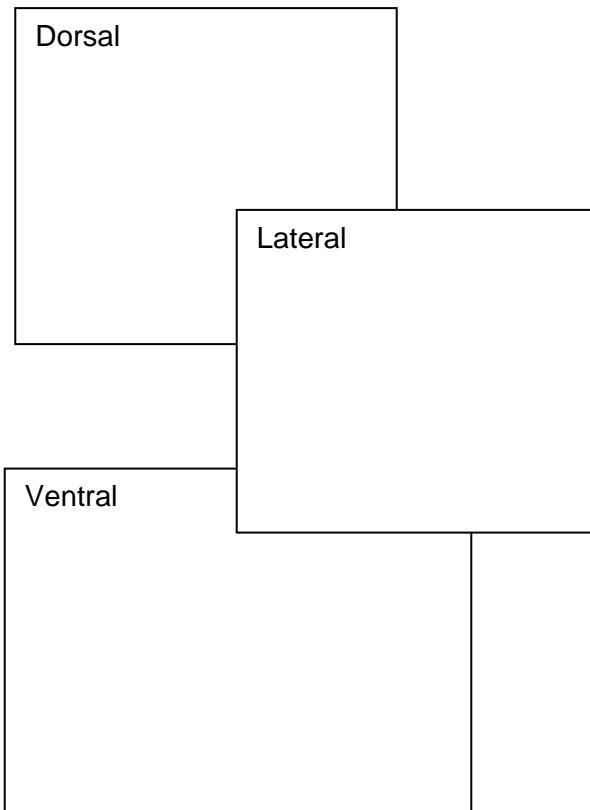


Figure 2.a, b, c. Dorsal, lateral and ventral views taken with TwinLight™

The answer:

TwinLight™ fiber optic illuminator with Xenon Flash and Microoptics new InSex rotating sample chamber

Actual time spent at the camera to capture these three images: 90 seconds! And no need to learn complex composite software
The result:

- Sharp detail with great depth of field.
- More faithful color rendition (The TwinLight™ mimics daylight. No need for color adjustments)

The TwinLight/InSex Advantage:

- One step sample preparation
- Rapid results
- No prior experience needed
- High resolution plus great 3-dimensionality

See InSex™ in action...

Visit www.microoptics-usa.com for a 3D movie showing full rotation of this specimen through 360 degrees... or request our Entomology CD from sales@microoptics-usa.com

How to take exquisite images like this in your lab:

(System description and diagram)

InSex™: a special rotating chamber made by Microptics

Sample preparation:

The wild bee genitalia were suspended in glycerin and inserted into the InSex chamber