The challenge of imaging small invertebrates

Sandra Brantley for the iDigBio Invertebrate Imaging Group





Challenges

Small size of specimens (ex. pinned insects; spiders, centipedes, worms in alcohol)

Handling time is long, especially for alcohol preparations

Need structures on several sides of a specimen in order to make an ID

Damage due to handling

Benefits

Facilitates identifications, fewer loans needed, so decreases damage/loss in the mail (especially for types)

Makes the specimen available to many people at once when linked to databases

Gets holdings information out to many users – especially useful for small collections



AWare Systems for batch scanning of slides, Belgium

Examples of commercial imaging systems









Do-it-yourself systems if you have in-house expertise, Univ. Michigan



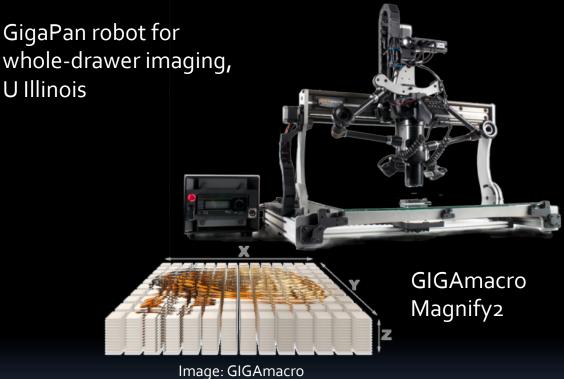


Essig Musuem of Entomology, UC Berkeley uses a scanner and PhotoShop scripts for batch processing of slides



Useful technology for our imaging challenges can come from unexpected sources, such as high-throughput slide scanning from pathology applications, and robotics for imaging whole drawers of insects or that can rotate around a given specimen.





The downside is that cost is prohibitive for many museums; a possible fix is for a few institutions to buy imaging systems and charge others to take/process images.

Check iDigBio's wiki (https://www.idgibio.org) for webinars from the InvertImaging group and the calendar for upcoming workshops. Many thanks to the people from the institutions whose imaging setups are included here.