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So, You Want an X-Y Table?

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So, You Want an X-Y Table?

Cultural Heritage Imaging Professionals Conference
Stanford University
Stanford, CA
July 11-13, 2016

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Digital Production Librarian
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How Large of a Capture Surface Is Best?

Make sure to not go too small... or what is the point? However, make sure to take into consideration the table’s full x/y travel when space planning.
Table or Easel?
Automated? Manual? Or Both?
Camera & Lights Support Structures? Object Flattening Mechanism?
Tried and True Vacuum Bed, But We Didn’t Go This Route...
Ergonomic Considerations?

Table Height? Reach Needed To Manually Focus Camera?
Ready to Design? CAD is Your Friend!

Ready for Delivery? CAD (again) is Your Friend!

Virtually “walk” table components through doors and hallways. This will help answer how much of the system needs to be broken down (and re-assembled) in studio.
Design Decisions That We Ended Up Making...
1. Table’s Surface Dimensions: 50” x 69”

2. Table’s Footprint: 70” x 98”

3. Table’s Surface Height from Floor: 32”

4. Table Components: 80/20 Aluminum Alloy CNC Cut to CAD Designed Specs. Yamaha Controllers & Servos. Foba Asaba Camera Stand w Extension Arm

1. Table Control: Fully Automated Capture System (touchscreen controller) with Manual Override

2. Object Flattening: 50” x 69” Electrostatic Board Table Surface (also magnetic)
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Acknowledgments

Michael Ulsaker, Ulsaker Studios, Glastonbury, CT

Mike Westkamper WEI Inc., Old Saybrook, CT
Watch It In Action...

https://youtu.be/5bluRZjY--M