

Self-service, Express Digital Scanning

Proposers:

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Sponsoring Organization: George A. Smathers Libraries

Purpose and Specific Objectives:

The George A. Smathers Libraries request \$108,890 to purchase five KIC Bookeye 4 Scanners, which will provide easy access to quality high-speed digital scanning options for students and faculty. This equipment has an intuitive interface with embedded universal accessibility features.

Previous Technology Fee funding awarded in 2016 allowed the Smathers Libraries to purchase six KIC Bookeye 4 Scanners for Library West, Marston Science Library, Education Library, Architecture and Fine Arts Library, and Special and Area Studies Collections. Since installation in February 2017, the existing KIC scanners have seen the following use:

- Library West: 7,369 sessions with 188,991 images scanned
- Marston Science Library: 5,241 sessions with 74,406 images scanned
- Architecture and Fine Arts Library: 2,949 sessions with 80,584 images scanned
- Education Library: 1,512 sessions with 32,499 images scanned
- Special and Area Studies Collections: 639 sessions with 22,938 images scanned
- **Total: 17,710 sessions with 399,418 images scanned**

This success has led the project team to identify additional locations across the campus that will broaden the usage of this instructional technology by students and faculty currently without convenient access. Each proposed location for the new scanners was selected based on specific needs:

- **Disability Resource Center** – Among its other services, the Disability Resource Center (DRC) provides alternative format textbooks for students registered with the DRC. Converting textbooks to an alternative format will be made much easier through the Bookeye scanner’s speed of scanning bound volumes and accessibility features (optical character recognition (OCR), scan to audio, foot pedal controls). Similarly, DRC staff can quickly scan print articles needed for instruction and save them either as MP3 files or OCR PDFs (enabling screen reader programs to read from the PDF). In addition, DRC note-suppliers supply notes for over 200 courses on campus and most of these note-suppliers scan their notes and class documents at the DRC and then send these to the requesting student. This represents a large volume of items that need to be scanned and often ties up the current flatbed scanner used. Having access to a Bookeye scanner will allow note-suppliers to easily scan their notes to a digital file for transition to students. Additionally, students who have visual and or hearing impairments often feel the DRC is their ‘safe place’ since they are familiar with the location and setup. Often times, DRC students can feel anxious about having to go into a crowded area to have to use the Bookeye

scanner, so a scanner at the DRC will allow this population of students to access high-speed scanning technology with ease.

- **Health Science Center Library (HSCL)** – The HSCL serves the students and faculty of six health science colleges (Dentistry, Medicine, Nursing, Pharmacy, Public Health & Health Professions, and Veterinary Medicine) and numerous interdisciplinary centers and institutes, which are physically distant from other Smathers Libraries branches. Serving a population of over 12,000 students, residents, and faculty, the HSCL sees about 400,000 visits per year. HSCL faculty and staff anticipate that the scanner's speed will be particularly appealing to this audience, given health science students' busy schedules with class, research, and clinical responsibilities. Additionally, health science students frequently work on group projects and function in interdisciplinary teams, so the Bookeye scanner's collaboration features will be particularly useful for this population.
- **Latin American and Caribbean Collection (LACC)** – LACC is one of the few libraries in the country specializing in materials from Latin American and the Caribbean and holds approximately 500,000 volumes. For security reasons, students and faculty are unable to borrow rare or unique materials from this collection to one of the existing Bookeye scanners, so having a scanner within the LACC will greatly enhance the research agendas of students and faculty. Given the popularity of Bookeye scanners in the University of Texas's Benson Latin American Collection (a peer collection), the project team anticipates that the high speed scanner in LACC also will experience high usage. Preliminary data confirms this assessment. The LACC currently has on loan the existing Bookeye scanner purchased for the Education Library (for use while the Education Library is closed for major renovations); during the seven weeks the scanner has been at this location there have been 101 sessions with 3,991 images scanned.
- **Library West** – Library West is one of the busiest Libraries branches on campus and has had the highest usage thus far of their previously purchased Bookeye scanner. As seen above, over the 13 months since it was installed, this scanner has performed 7,369 sessions and produced 188,991 images scanned. Because of this high level of usage, Library West has seen lines of students waiting to use the existing Bookeye scanner. The proposed additional scanner will be housed on the third floor, one floor above the existing scanner, and will alleviate lines and accommodate the overflow.
- **Marston Science Library (MSL)** – MSL also has experienced very high usage of its previously purchased Bookeye scanner over the course of 13 months, with 5,241 sessions, 74,406 images scanned, and queues of students waiting to use the scanner. In order to offer more options for scanning bound library materials, the proposed additional scanner will be housed on the third floor near the periodical collection, one floor above the existing scanner. MSL faculty and staff also anticipate high usage of the automatic document feeder at both locations for scanning course notes, research articles, and other documents.

Impact/Benefit:

The project team anticipates students and faculty will use this instructional technology tool to:

- Quickly scan selected pages from books, journals, other documents, and course reserves items
- Easily share materials with collaborators
- Create keyword-searchable and ADA-accessible PDF files for online teaching and learning
- Streamline the process for uploading digital copies of materials to Canvas
- Digitize original content such as notes, drawings, charts, etc.
- Make use of universal accessibility features such as scan-to-audio, foot pedal controls, and optical character recognition
- Save some trees by using less paper

Current flatbed scanners yield an average of one to three page scans per minute depending on size, resolution, etc., while the Bookeye can produce 22 scans or more per minute. Scanning is available immediately upon walkup, as the system requires no login. Use of this equipment to produce digital files is easy, fast, and free. Scans may be saved to a USB drive or sent via email.

The following unsolicited testimonial from a graduate student at Library West, who has become a frequent user of the existing Bookeye scanner. It speaks to how this tool is being used:

“Is there any way that Library West could purchase a second Bookeye scanner for Graduate student use? I can’t tell you how important it has become for me during the run up to my qualifying exams... My problem is that lines for it in Library West are usually quite long... The scanner has absolutely become an essential research tool for me because my dissertation topic is a bit obscure, and I have been forced to rely heavily on InterLibrary Loan to access to the critical sources I need. Unfortunately, the ILL loan times on many of the books I borrow are really too short, so it is necessary that I scan large parts of these books in order to have them back in time but still have access to this material when I will actually need it (Quals!). Other students in my cohort are experiencing the same thing and this leads to long lines and short fuses! ... Thanks for investing in the one on the second floor – like I said, it’s amazing!”

Some additional trends make the Bookeye scanners even more necessary to student success:

- Decreasing Library Purchasing Power - The rising costs of books and journals have led to cancellations of many titles, forcing students and faculty to rely heavily on InterLibrary Loan and UBorrow. As the graduate student above mentions, the loan periods on many of these titles are short, requiring students and faculty to scan necessary sections of borrowed titles.
- Textbook Cost Savings for Students - With the rising costs of textbooks, faculty have been trying to help alleviate the burden of purchasing expensive texts by taking advantage of Course Reserves. Consequently, course reserve numbers are up and, with ten-hour loan restrictions on those items, students end up scanning chapters of their texts to read on their laptops and mobile devices. This is another reason for long lines at Library West in particular.



Sustainability:

The Libraries and Disability Resource Center have committed to absorbing recurring maintenance costs, maintenance agreement with KIC Bookeye vendor, and any infrastructure upgrades needed such as port drops/activation. Per the vendor’s literature, scanners are rated for one million scans, but most last longer with proper maintenance. Given the current average use among the existing scanners of around 75,000 scans in a year, this would mean the scanners have the potential to function for over 13 years.

Timeline:

Time	Activities
Receipt of funds	<ul style="list-style-type: none"> ● Place order for scanners and accompanying computers. ● Coordinate with Library Facilities, Library IT and DRC to identify any power or network needs at all locations and schedule work orders for any requirements.
Month after receipt of funds	<ul style="list-style-type: none"> ● Coordinate with Library IT, Library Facilities, and KIC Bookeye vendor to map out an installation schedule so there is minimal disruption of services and avoid critical dates such as midterms and final exams.
2-6 months after receipt of funds	<ul style="list-style-type: none"> ● Installation and testing of KIC Bookeye Scanners. ● Staff training and creation of signage and instructional handouts. ● Advertising/Promotion. ● Assessment.

Budget:

Five KIC Bookeye Scanners @ \$20,878 per unit = \$104,390

Five Dell OptiPlex 7050 computers @ \$900 per unit = \$4,500

Total Cost: \$108,890

Budget Narrative:

Please see specifications below from the KIC Bookeye vendor for what is included with each unit. The only repair/maintenance problems found with the existing scanners was the inability of Libraries IT staff to make needed changes to the computers included. Therefore, the quote for the scanners has excluded computers, and Libraries IT will separately purchase and install a Dell OptiPlex 7050 computer for each scanner.

Each Bookeye 4 V2 scanner system includes the following hardware, software, and features:

- Bookeye 4[®] V2 Color Planetary Book Scanner with:
 - 1-Gig Ethernet Card and Scan2Net[®] Technology
 - Foot Pedal
 - 600 dpi optical resolution
 - 24.4" x 18" scan area (A2+) easily handles over-sized materials
 - Flat or "V" Cradle modes – "V" Cradle mode holds books at 120° angle
 - "V" Cradle completely protects book spines and bindings
 - Rated for 1 million scans; properly maintained, most last longer
- KIC True 2-Touch (T2T) Application Software User Interface
- KIC Custom Secure Metal 'K' Cabinet – houses PC and Built-In LCD Touch Screen; KIC Cabinet is Wheelchair Accessible & ADA (Americans with Disabilities Act Compliant)
- 24" Built-In LCD Interactive User Interface Touch Screen Monitor
- 24" Image Preview Monitor mounted on 'K' Cabinet
- Kodak i1150 Automatic Document Feed (ADF) Scanner (for loose paper documents)
- Easy Clear User Instruction Guide within the User Interface Touch Screen
- USB Jump Drive Support and Network Drive Compatible
- Supports Saving/Sending images via USB, Email, FTP and/or Printing
- Real-time Image Editing (i.e.-Crop, Enlarge, Adjust Exposure Controls)
- Auto Page Separation, Auto Focus, Alternate Scan of left & right page
- Automatic Border Recognition and Removal
- Output Formats Supported: JPEG, PNG, PDF, Searchable PDF, Editable Rich Text (RTF), Text-to-Audio (MP3), save to Cloud (Google Drive, OneDrive, Dropbox & Box) and save via QR Code readers
- Standard Web/Phone assisted set-up, installation and training
- Shipping and handling Included