

The APT BookScan 1600™

With increased volume comes the need for greater speed. The Kirtas APT BookScan 1600™ is Kirtas' intermediate level system designed to keep up with the demand for steady digitization of bound documents.

Superior Image Quality

All of Kirtas' digitization systems use high-quality, digital cameras rather than traditional scanner technology to capture page images. The APT 1600™ is equipped with one 16.7 megapixel Canon EOS-1Ds Mark II digital camera. It photographs each right- and left-hand page sequentially using a mirror array through the camera's 24-70mm Zoom EF lens. Resolution can be set to 300 pixels per inch, with the ability to interpolate to 600 dpi through BSE software.

Robotics More Gentle Than the Human Hand

The book rests gently in the patented SmartCradle™ Dynamic Book Handler, which automatically adjusts to compensate for the decreasing number of pages on the right side as they are turned and captured. The SmartCradle™ maintains the book open at exactly 110 degrees throughout the process, providing a low-stress support for rare and fragile books.

The SureTurn™ robotic arm reduces the need for manipulating pages by hand, which is most critical in the case of old or fragile bound documents. The computer-controlled arm uses an adjustable vacuum system, in tandem with page fluffers to gently pick up and turn one page at a time.

Quality Assurance Through Technology

To assure only one page is picked up and none are missed, the APT 1600 is equipped with the Kirtas Page Edge Sensor, which monitors the APT's performance and adjusts the head's position as needed. The Enhanced Page Separator helps to separate the individual pages while the Page Edge Sensor monitors the page lift to make sure one, and only one page is turned at a time. If a page is missed, or multiple pages are lifted, the APT 1600 will pause and allow the operator to take corrective action.

Productivity Through Speed and Simplicity

The APT BookScan 1600™ can capture up to 1600 pages per hour, but that's not the only feature designed to increase productivity. The APT Manager— the software that runs the APT system— is easy to learn and intuitive to the user. In addition to the user manual, each step in the set up and digitization processes is explained through comprehensive videos. Both these valuable resources are available to all Kirtas customers through the Kirtas Customer Extranet, where software updates and other documentation can be easily downloaded.

Leveraging Metadata

Kirtas is the only solution that integrates metadata into the production process to ensure seamless workflow and inventory control. Simply scan the book's bar code, and the APT Manager searches the selected library database for any descriptive metadata available— including MARC, MARC21, DublinCore, MODS, and other formats— and saves it in the Metadata folder for that particular book. APT Manager and BookScan Editor also produces technical metadata during book scanning and post-processing for authenticity and archival purposes. Where books are going to be reprinted ONIX metadata is included in the metadata folder.

Specifications

Performance

Cycle Speed: Up to 1600 images per hour
Output: Color, Grayscale, B/W, JPEG and TIFF

Technical

Capture: 1 16.7 MP Canon EOS 1Ds Mark II cameras
24 bit RGB, 4992 x 3,228 pixels
Resolution: 300 ppi with the ability to interpolate to 600 dpi
Page Size: Up to 4.5 in x 7 in to 11 in x 14 in
11.4 cm x 17.8 cm to 28.0 cm x 35.5 cm
Paper: 13 lb to 80 lb / 49 gsm to 300 gsm
Binding: Up to 4 in. / 10.16 cm
Machine Dimensions: 33" w x 30" d x 48" h
84 cm x 76 cm x 122 cm
Accuracy Enhancements: Page Edge Sensor, Enhanced Page Separator
Weight: 160 lbs (73 Kg) approx
Power: Standard 120-240 VAC 15 amp Receptacle
Workstation: 1 Kirtas Image Servers
Quad Core Processor 2GHz minimum
Windows XP Pro
3 GB RAM
2 1TB drives RAID 10 Storage
2 Gigabit Ethernet cards
17" Flat screen monitor on stand
Keyboard & mouse
Software: APT Manager, BSE software License
Optional Software: BookScan Editor PRO (OCR)
BookScan Editor Arabic (OCR)
Certification: AN/NZS, CE, CSA, EN, FCC, IEC, RoHS, UL

