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## **Product Specifications**

# 1. Specifications

## 1.1 ScanCraft Dual Configuration Book Scanner (Model: SV4-3C-A2)

### 1.1.1 Overview

- A first of its kind, **Dual Configuration Scanner (v-shape plus flatbed)** for scanning books, documents, newspapers, maps, manuscripts and more. (*Patent Applied, Application No: 1785/MUM/2014*)
- Three high-resolution cameras, v-shaped base cradle with v-shaped glass-top & flatbed with glass-top
- Dual configuration achieves functionality of two scanners in one hence reduces project costs.
- Designed for non-destructive scanning and can handle new as well as fragile and precious old books and documents
- Produces high quality digitized version of the scanned books & documents in PDF format.
- Easily scan more than 1,00,000 pages per month.
- Ideal for large scale digitization projects.
- Scan Sizes: A4, A3, A2

### 1.1.2 Scanning

- **Model:** ScanCraft SV4-3C-A2
- **Scanning Type:** V-Type & Flat-bed dual - convertible configuration
  - **V-Type:** V-shaped base cradle with V-shaped glass top for gently flattening pages.
  - **Flat-Bed:** Removable flat bed with glass top for gently removing folds and creases.
- **Scanning Sizes:**
  - **V-Type Configuration:** For books, A4, A3 sizes. Scans up to two A3 (420mm x 297mm) sized pages simultaneously. Suitable for books, magazines or any bound publications. Can also scan two single page documents simultaneously.
  - **Flat Bed Configuration:** Scans up to single A2 (594mm x 420mm) sized document. Suitable for scanning maps, newspapers, manuscripts and more.
- **Advanced & Precision Camera Positioning**
  - High precision camera alignment in 3-dimensions for accurate scanning.
  - Precision centering of the camera for any (standard or non-standard) page sizes up to A3 in V-Type configuration and up to A2 in flatbed configuration.
- **Scanning Speed**
  - More than 600 pages per hour (4800+ pages per day) which translates to over 1,00,000 pages/month in a single 8-hours per day operations.

### 1.1.3 Optics

- **Cameras:** Three High-resolution Nikon DSLR cameras.
- **Lenses:** Each camera attached with variable focal length lens.
- **Camera Sensor:** 24 Mega Pixel sensor. **Scan Image Size:** 6000 x 4000 pixels.

### 1.1.4 Computer

- No need of external computer for the scanner.
- Scanner contains built-in compact high-end computer with 64bit Quad Core CPU, 8GB RAM, 1TB HDD, high resolution monitor with scanning & processing software pre-installed.

### 1.1.5 Software

ScanCraft software's scanning & post processing features can produce excellent quality, ready to use digitized books in 99% cases. No additional manpower, hardware or software required for external post processing. This significantly reduces costs and time.

- **Scanning Software:** Runs on Windows 7 or higher
- **Scanning Modes**
  - Manual mode
  - Timer based auto scanning mode
- **Post-scan Processing Features**
  - Auto and manual page cropping
  - Page Rotation: Range 0.01 to 359.99 degrees
  - Brightness/Contrast adjustment
  - Color cast removal for old publications
  - All above corrections can be applied to all left pages, all right pages or a single page.
  - Page normalization: Automatically sets all page dimensions to equal size.
  - Unattended batch creation of output in PDF format
  - Customized export file name patterns
  - Produces high quality output ready for Optical Character recognition (OCR)
- **Scanning File Formats**
  - Raw: TIFF
  - Export (output): PDF, TIFF, JPEG

### 1.1.6 General

- **Compact and portable:** Can be transported for digitization at multiple locations.
- **Includes :** UPS & surge protector
- **Dimensions:** 1080mm x 800mm x 1140mm (W x D x H)
- **Weight:** ~50kg                      **Rated Voltage:** AC 220V      **Frequency:** 50 – 60Hz
- **Power Consumption:**
  - Compact built-in computer: 60W      Monitor: 15W
  - Four LED Lights (combined): 60 W      Three Cameras (combined): 120W

## 1.2 ScanCraft Single Configuration Book Scanner (Model: SV4-A3)

Similar to ScanCraft High Dual Configuration Scanner Dual Configuration (SV4-3C-A2) except following difference

- Two High-resolution Nikon DSLR cameras
- Without **Flatbed Configuration**
- Scan Sizes:
  - **V-Type configuration only:** For books, A4, A3 sizes. Scans up to two A3 (420mm x 297mm) sized pages simultaneously. Suitable for books, magazines or any bound publications. Can also scan two single page documents simultaneously.

## 2.0 DPI & Storage Calculations

### 2.1 DPI (Dots Per Inch) Calculations

- ScanCraft scanners use two cameras to scan two pages simultaneously.
- Each rectangular page is scanned by individual camera. Two pages scanned simultaneously by two cameras.
- Each camera is attached with variable focal length lens. Scanned area can be increased or decreased by changing the focal length of the lens (or by attaching different lens with a different focal length range).
- DPI depends on the camera sensor resolution and the area being scanned. Hence changing focal length of the lens (or using a different lens) will also change effective DPI.
- Hence, you get variable DPI arrangement while scanning on a camera based scanners.

#### Formula for DPI calculation:

#### DPI at a set focal length =

*Smaller Dimension of Camera Sensor Resolution in Pixels ÷ Smaller Side of the Area Being Scanned in Inches*

Sample DPI values: (For camera with sensor resolution **6000 x 4000 pixels**)

Page Size (or area) Being Scanned	DPI
A5 (5.82" x 8.26")	687
Book (6" x 9")	667
A4 (8.26" x 11.69")	484
A3 (11.69" x 16.53")	343
A2 (16.53" x 23.39")	241

#### 600+ DPI Scanning Available For Large Size Documents

ScanCraft provides customized, special purpose printed grid and support in software to create high-resolution images for large size (e.g. A3, A2 size) documents, artifacts, manuscripts and more. Multiple images scanned with this technique can be seamlessly combined to create 600+ DPI high-resolution images and saved in TIF, JPEG or PDF format.

### 2.2 Storage Calculations

#### Hard Disk Storage

- ScanCraft scanner produces image based PDF as output file.
- Each page in PDF is created using jpeg image format by default.
- Size of each PDF page (jpeg image based) is approx. 200KB (when exported at 200DPI)

**Size of each PDF file is: (Size of each page) x (Number of pages in PDF)**

- **Sample storage values for processed scanned pages**
  - Processed page size (jpeg format): **Approx. 200KB per page**
  - Number of pages stored in 1TB (1024 GB) Hard Disk: **50,00,000 Pages (5 million pages)**

- Number of pages stored in 2TB (2048 GB) Hard Disk: **1,00,00,000 Pages (10 million pages)**
- **Sample storage values for raw scanned pages (recommended for archival, long term storage projects)**
  - Raw page size (tif format): **Approx. 25MB per page**
  - Number of pages stored in 1TB (1024 GB): **40,000 Pages (40 thousand pages)**
  - Number of pages stored in 2TB ( 2048 GB): **80,000 Pages (80 thousand pages)**

### 3.0 Additional Info

- **Website:**
  - [www.scancraft.in](http://www.scancraft.in)
- **Video Demo:**
  - [www.scancraft.in/index.html#demo](http://www.scancraft.in/index.html#demo)
- **Scanner Photos:**
  - [www.scancraft.in/images.html](http://www.scancraft.in/images.html)
- **Product Specifications, Brochures, Solution Presentation & other docs:**
  - [www.scancraft.in/brochure.html](http://www.scancraft.in/brochure.html)
- **Scan Samples:**
  - [www.scancraft.in/samples.html](http://www.scancraft.in/samples.html)

#### Please Note

- For additional information, please contact: [contact@webgenic.com](mailto:contact@webgenic.com)

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