

Central Library
The Maldives National University

Specification of Robotic Automatic Document Scanner

Specifications	Description as per the Client Requirement	Description of the Product as per each requirement (To be filled by the supplier)
Operating Modes	3 in 1 : Must accomodate automatic, Semi automatic and manual form of scanning.	
Scan Speed	Around 2.500 pages / hour in automatic mode and around 1000 pages / hour in manual mode	
Scan size	Up to A3	
Paper Weight & Quality	30 – 350 g/m ² in all textures and qualities Must be able to scan brittle, acid, torn and single pages	
Book Cradle / Book loading system	Adjustable book spine support which can manage most of the book bounds as mentioned in the "Types of documents that must be scanned".	
Glass plate	V-shaped glass plate or flat glass plate which is relaiable and long lasting	

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Page Turning Technology	Patented Bionic Finger System or air cushioned automatic paper turning mechanism reliable and suitable for scanning multiple type of material indicated in this document	
Single Page Control	Must have sensors that automatically measure size, density and paper quality. It also must have automatic features that turn page by page and scanned at a time. For more older and fragile documents, scanning semi automatic and manual setup also must be available.	
Lighting System	LED – museum standards, No UV / IR or Equivalent lighting which provides constant illumination over the whole page. Independent from ambient light	
Colour Tone	24 bit color, 8 bit greyscale, 1 bit b/w	
CMOS Capturing System	Respective high quality cameras or relevant mechanism must be included such as: Canon D-SLR 700D Canon D-SLR 5D Mark III Nikon D-SLR D810 Or any other high quality equipment to match the product.	

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Optical Lens Systems	Sigma 30 mm, Carl Zeiss 35 mm Distagon T, Carl Zeiss 50 mm Makro Planar, Canon / Carl Zeiss / Sigma Compatible with all future lense developments or Specify the lense system provided.	
Automatic Processing	Must be able to create templates with pre-defined settings for fast processing or automatic system which calculates and manages automatically	
Image Formats	JPEG, TIFF, GIF, PNG, RAW, PDF, PDF OCR, XML	
Software	Comprehensive software for image processing, quality control, data conversion, workflow management & OCR licenses.	
Image resolution:	300 // 400 // 600ppi	
Type of documents that must be scanned	Must be able to manage large variety of bound documents such as - hard and soft covers (like magazines and newspapers) - spontaneously closing books (squarebacks) - wavy and irregular pages (manuscripts)	
Scanning Quality	Distortion free scanning up to the book fold No perspective distortions No curvature effects No artefacts in the images	

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IT System	DELL quad core processing system for image capturing & batch processing or high end system for storage and processing need of the scanner.	
Warranty	Terms of warranty to be specified	
Future Technical assistance	Future technical assistance such as software upgrade etc after the warranty terms to be specified. And in case of technical failiure procedure to be followed to be specified.	