

# scan2page

Scanner for books, magazines and bound newspapers for all page formats from the smallest to A2+ (540 x 750 mm)

## Technology

This scanner includes two high resolution cameras. Each camera takes an image of one page of the document. Two pages are scanned at a time. This parallel treatment allows twice higher throughput for a large surface or twice more surface for a given image resolution.

A motorized book cradle allows placing books in the focal plane of cameras. The scanner may be placed vertically in 3 positions LOW, MED, HIGH to allow different image resolutions.

Operator sits in front of the book cradle, turns the sheets and uses a foot switch to start the scan. A busy light indicates to operator when exposure has finished so a new sheet may be turned. Scanner software drives the process and shows in real time the output of cameras allowing immediate image inspection.

After scanning, saving of images and page turn may be started simultaneously. File save time depends on size of images and on selected format. The longest time between file saving and page turning has to be considered for productivity calculations.



position	HIGH	MED	LOW
available dpi	200, 300	200, 300, 400	200, 300, 400, 600
max opened book format	standard 2xA2 extended 2xA2+	2xA3	2xA4
max page size format	standard A2 (420 x 600 mm) extended A2+ (540 x 750 mm)	A3 (297 x 420 mm)	A4 (210 x 297 mm)

## Image Resolutions and Page Formats



page format	qty	color mode	dpi	exposure time [s]	file save time [s]	turn time [s]	cycle time [s]	productivity [pages / hour]
A2++	2	gray	300	2	5	3	2+5 = 7	3600 / 7 * 2 = 1028
A4	2	gray	300	2	1	3	2+3 = 5	3600 / 5 * 2 = 1440
A2++	2	color	300	4	8	3	4+8 = 12	3600 / 12 * 2 = 600
A4	2	color	300	4	2	3	4+3 = 7	3600 / 7 * 2 = 1028

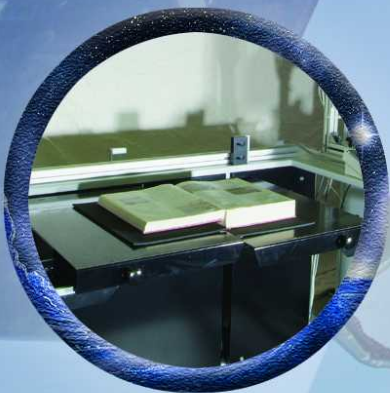
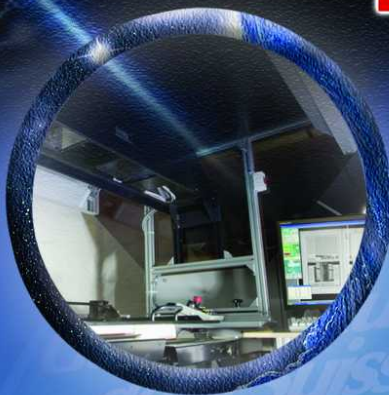
## Productivity Samples

Digitization of newspapers and large format books requires maximum of surface and maximum of resolution. This context is most demanding in resources and presents the lowest productivity. Time to turn next sheet is about 3 sec and two pages are scanned at a time.



# 4DigitalBooks™ scan2page

## Components and Specifications



Scanner	
<b>Cameras</b>	2x digital camera from I2S CopiBook, optical resolution 56 Mega Pixels each
<b>Global scanning surface</b>	standard max 2xA2 (880 x 600 mm) extended max 2xA2+ (1080 x 750 mm)
<b>Colors</b>	Gray Scales 8 bit, Color RGB 24 bit
<b>Standard exposure time</b>	gray scales : 2 sec, color RGB : 6 sec
<b>Cameras features</b>	digital setting of focus, exposure, optical resolution and color mode
<b>Automatic features</b>	auto-focus, image resolution measure
<b>Set of lamps</b>	fixed in front and rear for optimal exposure of gutter, temperature 6000°
<b>Start trigger</b>	foot switch and busy light
<b>Adjustment of cameras</b>	vertical and horizontal
<b>Frame protection of external light</b>	black ceiling, surrounding of dark Plexiglas
<b>Frame dimensions</b>	1640 x 1580 mm
<b>Frame height</b>	1750 mm
<b>Weight</b>	60 kg
<b>File output formats</b>	TIFF, JPEG

Book Cradle	
<b>Open book size</b>	standard max 2xA2 (880 x 600 mm) extended max 2xA2+ (1080 x 750 mm)
<b>Page size</b>	standard max A2 (420 x 600 mm) extended max A2+ (540 x 750 mm)
<b>Book thickness</b>	max 300 mm
<b>Book weight</b>	max 40 kg
<b>Book placement platens</b>	manual adjustment horizontally motorized adjustment vertically
<b>Surface of platens</b>	covered by film for adherence
<b>Angle of document</b>	180°
<b>Focal plane</b>	adjustable height
<b>Ergonomics</b>	operator may work in sitting position in front of the book
<b>Length x width</b>	1640 x 900 mm
<b>Height of table</b>	850 mm
<b>Weight</b>	130 kg
<b>Positioning</b>	lockable wheels, adjustable feet
<b>Power supply</b>	110-220 V, 300 VA max

PC Rack	
<b>Chassis</b>	19", 24U, 2 doors, 4 wheels
<b>Dimensions</b>	800 x 600 mm, height 1200 mm
<b>Weight</b>	40 kg
<b>Cooling</b>	thermo controlled fan
<b>PC for scanner interface</b>	Power PC including 1TB of local storage in RAID1, Win XP Pro.
<b>PCs for image capture</b>	2x PCs driving the cameras
<b>Ethernet</b>	Gigabit Switch
<b>Console</b>	KVM switch, 24" TFT monitor, keyboard, mouse,
<b>Power supply</b>	110-220 V, 1200 VA max