

QUARTZ HD  
600x600 dpi optical  
on A1 format  
up to  
11lp/mm




# SupraScan™

## QUARTZ A1

**“Just smile... you are in the best hands!”**





The SupraScan™ QUARTZ A1 scanner is the third generation of i2S DigiBook's SupraScan™ range that has been sold successfully around the world for 7 years.

The new SupraScan™ QUARTZ A1 has been developed with a very simple frame of mind: *“Learn from the past, learn from your customers, be smart with technologies and no compromises!”*.

This is why today you are facing the most reliable and efficient scanner bringing you all you need to make your digitization projects successful and makes you confident and satisfied for long time.



**METAMORFOZE  
COMPLIANCE**

***Metamorfoze Preservation Imaging Guidelines*** are international specifications of technical criteria and tolerances for imaging preservation. The SupraScan™ QUARTZ A1 is fully compliant with Metamorfoze guidelines. These results have been achieved working with the standard SupraScan™ software and with Profile Maker modules to create the scanner ICC profile. All criteria and specifications are correctly reached!



### FAST

Less than 8s for  
400 x 400 dpi A1 color scan



### IMAGE QUALITY

Metamorfoze compliant  
> 11 lp/mm at 600 x 600 dpi



### GENTLE

Automatic glass pressure  
control and adjustment



### LARGE

1100 (43") x 630 (24.8") mm:  
the largest scanning size on  
the A1 scanners market



### SMART

Automatic calibration  
and automatic focus



### RELIEF

A unique lighting to enhance  
documents and objects relief

## SUPRASCAN™ STANDARD

Since the beginning, the SupraScan™ range has been developed to achieve the highest level of benefits.

This new SupraScan™ generation called "QUARTZ" has been optimized and comes today with a new camera, a new book cradle, a new lighting system, a new software and exclusive features. This is why the SupraScan™ QUARTZ A1 is today the best solution with all in one: **image quality, productivity, ergonomics, versatility of uses, reliability and document preservation.**

## IMAGE QUALITY: 30 YEARS OF KNOWLEDGE

**i2S DigiBook** is part of the i2S Group internationally well-known in industrial vision. i2S Group's high level of knowledge in image technologies (sensors, optics, electronics, lighting, image processing) allows i2S DigiBook to offer you the best components to design its premium cameras.

## NEW CAMERA QUARTZ HD



- > The new CCD camera offers a 600 x 600 dpi optical resolution on A1 format, up to 800 x 800 dpi on A2 and 1000 x 1000 dpi on A3.
- > Resolution efficiency is more than 11 lp/mm at 600 x 600 dpi and more than 18 lp/mm at 1000 x 1000 dpi!
- > Images are compliant with Metamorfoze standard.
- > Focus is motorized and automatic.
- > Scan time is less than 8s for an A1 scan at 400x 400 dpi optical.
- > No image distortion: distance and angle between the camera and the document is fixed and the camera is always perpendicular to the document.

## FORMAT

- > The SupraScan™ QUARTZ A1 offers you the largest scanning size on the A1 book scanners market with a maximum scanning dimension of 1100 x 630 mm (43" x 24.8").

## NEW LIGHTING SYSTEM

- > Very long life LED lightings. No UV and IR emission.
- > Relief enhancement system.
- > Exclusive glare free system.
- > Lighting below the operator's eyes level.
- > Lights only switched on during the scan time.





## RELIEF ENHANCEMENT

The SupraScan™ QUARTZ A1 has the ability to digitize using only one lateral light (right or left). This exclusive feature allows you to enhance the relief of documents or objects and give a better value to your images.



Uniform light

Relief enhanced

## NEW BOOK CRADLE

SupraScan Quartz A1 can be equipped with a book cradle, two models are possible : book cradle 25 or book cradle 40.

### Similarities between book cradle 25 and book cradle 40 :

- > Similar to a Robertval system with electrical commands (up and down)
- > Motorized with electronic commands (no air compressor) and has an A1 glass plate with automated pressure and controls on the book.
- > The scan can be done without contact on the glass plate.
- > The glass plate is easily removable: 1 person and 10 seconds only.
- > The constant level of the document simplifies the daily use of the scanner by eliminating the need to setup the camera for each document.
- > Security sensors detect intrusions between the glass plate and the book cradle and release pressure or stop the glass plate move.

### Differences between book cradle 25 and book cradle 40 :

- > Scanning area :  
Book cradle 25 : up to 1100 x 630 mm / 43.3 x 24.8 in. (open book)  
Book cradle 40 : up to 1100 x 630 mm / 43.3 x 24.8 in. (open book)
- > Document thickness :  
Book cradle 25 : up to 25 cm / 9.84 in.  
Book cradle 40 : up to 40 cm / 15.75 in.
- > Document weight :  
Book cradle 25 : up to 25 kg / 55.12 lb.  
Book cradle 40 : up to 40 kg / 88.18 lb.

## SMART SCANNER



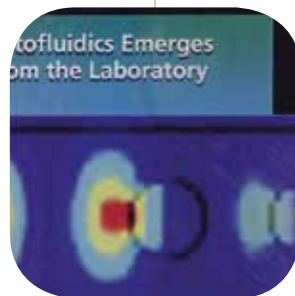
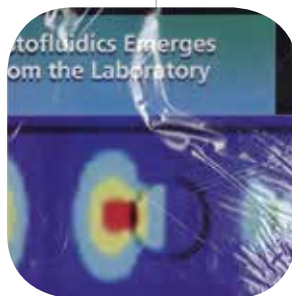
- > Automatic calibration mode (assisted and manual modes also available).
- > Batches of image processing and compression.
- > Automatic and real-time image quality control.
- > Easy integration into workflow solutions.
- > A remote maintenance function.

## NEW SOFTWARE

- > A new easy to use GUI (Graphical User Interface).
- > Multiple saving frames with customized outputs.
- > Thumbnails flow to check/delete/add/insert images.
- > Production environment: login, metadata tagging, METS outputs...
- > Operates on Windows 7, 64 bits platforms.

## GLARE CONTROL SYSTEM

The SupraScan™ QUARTZ A1 offers an innovative feature that prevent glares even on highly reflective documents (glossy paper, plastic blister, oil paintings, Mylar, etc.) This is an exclusive hardware solution (lighting system and optical head) and not a software processing.



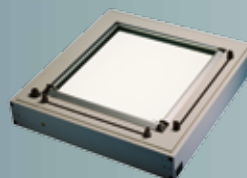
No glares control

With glares control

## ACCESSORIES



**V-SHAPE CRADLE:**  
to digitize at 90°  
for fragile bounded  
document up to A1  
format.



**LIGHT TABLE:**  
to digitize transparent  
documents (glass  
plates, negatives or  
positives, etc.)

# SUPRASCAN A1 REFERENCES

Since 2004, more than **500 SupraScan™** have been sold worldwide to about **380 customers**.

These customers are libraries, archives, universities, academies, town halls as well as services providers or other private structures.

*"The SupraScan™ RGB is a safe and fast scanner that produces high quality work consistently. The robust design requires little maintenance. The combination of impeccable image quality, high scanning speed and ergonomics ensure comfortable working for high quality results. In addition to the scanner i2s CopiBook in our digitization workflow, the SupraScan™ allows significant efficiency gains and increased the productivity of our digital projects".*

Martin LIEBETRUTH, Technical advisor and co-head of digitization strategies for the Göttingen Scan Centre (GDZ), State and University Library Goettingen, Germany.

*"Since mid 2004, we are heavily using the SupraScan™ scanner purchased from i2S. After 6 years of use to digitize our old books and manuscripts, this machine is still working properly. I recommend i2S as their machines are robust and reliable. The images provided by this scanner are very good. Hence, the machine is easy to use and user-friendliness, allowing to be manipulated by many operators".*

Sarifah ABDULLAH,  
Chief of Digitization Projects, IIUM Library, Malaysia

 **National Library of France (France)**  
 **Municipality Archives of the Hague (Netherlands)**  
 **Ministry of Culture (Russia)**  
 **Toppan Printing (Japan)**  
 **National Archive of Argentina (Argentina)**  
 **University of Southampton (UK)**  
 **Royal Botanic Garden (Spain)**

 **Library of Congress (USA)**  
 **State Archives of Venice (Italy)**  
 **University of Miami (USA)**  
 **Bibliotheca Alexandrina (Egypt)**  
 **National Library of Uganda (Uganda)**  
 **National Library of Iraq (Iraq)**  
 **National Library of Norway (Norway)**

## SUPRASCAN RANGE

The SupraScan™ is the perfect scanner to digitize with a high level of quality and productivity.

The range comes with 3 scanning sizes: **A1**, **A0** and **2xA0**.



SupraScan II A1



SupraScan QUARTZ A1  
SupraScan QUARTZ A1 HD  
SupraScan QUARTZ A1 V



SupraScan QUARTZ A0 HD



SupraScan QUARTZ 2A0

## i2S DIGIBOOK

Since 2000, i2S DigiBook has been designing, manufacturing and marketing scanners for books, maps and any type of bound documents up to 2xA0 format, as well as dedicated image-processing software suites. In 2011, i2S group has acquired Kirtas Technologies becoming the largest group in the world for Cultural and Administrative Heritage digitization and web-promotion solutions.

By being present in 80 countries, involved in research and development programs (Polinum), partner in national digitization programs and with hundreds of thousands documents housed and printable on demand, i2S DigiBook has started to build the most complete offer to help all public or private heritage organizations to manage with success their digitization, enrichment, long term storage, dissemination and return on investments objectives.



# TECHNICAL SPECIFICATIONS

## DIGITIZATION

<b>TYPE</b>	Planetary scanner
<b>MODELS</b>	SUPRASCAN™ QUARTZ A1 SUPRASCAN™ QUARTZ A1 HD
<b>CAMERA</b>	Tri-linear CCD sensor Automatic Focus (QUARTZ HD)
<b>OPTICAL RESOLUTIONS</b>	400 x 400 dpi optical on A1 format 600 x 600 dpi optical on A1 format (QUARTZ A1 HD)
<b>A1 (ANSI D)</b>	300 x 300 dpi to 400 x 400 dpi (to 600 x 600 dpi with QUARTZ A1 HD)
<b>A2 (ANSI C)</b>	300 x 300 dpi to 600 x 600 dpi (to 800 x 800 dpi with QUARTZ A1 HD)
<b>A3 (ANSI B)</b>	300 x 300 dpi to 800 x 800 dpi (to 1000 x 1000 dpi with QUARTZ A1 HD)
<b>A4 (ANSI A)</b>	300 x 300 dpi to 1000 x 1000 dpi
	More than <b>5 lp/mm</b> at 300 x 300 dpi More than <b>6,7 lp/mm</b> at 400 x 400 dpi Up to <b>11 lp/mm</b> at 600 x 600 dpi More than <b>11 lp/mm</b> at 600 x 600 dpi (QUARTZ A1 HD) More than <b>18 lp/mm</b> at 1000 x 1000 dpi (QUARTZ A1 HD)
<b>OUTPUT</b>	24 bits for color, 8 bits in grayscale, 1 bit in binary
<b>STANDARDS</b>	Compliant with Metamorfoze and FADGI standards
<b>LIGHTING</b>	Long life <b>LED</b> lighting system with no UV or IR emission <b>Relief enhancement</b> on documents or objects <b>No glares</b> even on highly reflective documents
<b>LIGHTING CERTIFICATION</b>	Lighting complies with Directive 2006/25/EC of the European Parliament on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (optical radiation) <b>lighting classified in the group «Safe»</b> according to NF EN 62471 - IEC 62471:2006.
<b>LIGHTING CORRECTION</b>	Embedded and in real-time

## SIZES HANDLED

<b>FORMATS</b>	Over DIN A1 / D (2 x A2)
<b>MAXIMUM DIMENSIONS</b> for A1 HD	<b>630 mm (24.8") (h) x 1100 mm (43") (w)</b> <b>618 mm (24.3") (h) x 1100 mm (43") (w)</b>
<b>MAXIMUM THICKNESS</b>	25 cm (7.8") – 40 cm (15.7")
<b>MAXIMUM WEIGHT</b>	25 kg (55 lbs) – 40 kg (88 lbs)

## IMAGES

<b>MIN. SCREEN RESOLUTION</b>	1920 (w) x 1080 (h) pixels (Full HD)
<b>ENHANCEMENTS</b>	Manual deskew, sharpen filter, white balance
<b>STORAGE</b>	Fast data transfer to local hard drive or network
<b>FILE FORMATS</b>	TIFF, TIFF G4, TIFF Multipage, TIFF LZW, DNG, PNG, JPEG, JPEG 2000, PDF

## SCAN TIME

	A1	A1 HD
<b>300 x 300 dpi optical</b>	<b>6,0 s</b>	<b>11,9 s</b>
<b>400 x 400 dpi optical</b>	<b>7,9 s</b>	<b>15,9 s</b>
<b>600 x 600 dpi optical</b>	<b>-</b>	<b>23,8 s</b>

## SOFTWARE

<b>PLATFORM</b>	Windows 7, 64 bits
<b>LANGUAGES</b>	Multilingual operator interface
<b>SAVING</b>	Images saved during scanning process
<b>SCAN SEQUENCES</b>	Next scan launched immediately after the previous scan is done
<b>IMAGE CONTROL</b>	Images displayed during scanning
<b>COLOR PROFILE</b>	ICC profile management
<b>IMAGE PROCESSING</b>	Processing and compression during scanning
<b>OPTIONAL PROCESSING</b>	Batch of image processing: page splitting, cropping, deskew, book fold correction, finger masking, smart binarisation, areas detection, etc.) Batch of image compression

## OTHERS

<b>ACCESSORIES INCLUDED</b>	Motorized book cradle 25 (or book cradle 40) Motorized glass plate with pressure control ICC chart Footswitch, mouse, keyboard
<b>WARRANTY</b>	12 months hardware and software warranty included Warranty extensions available up to 5 years

## PHYSICAL CHARACTERISTICS

<b>DIMENSION (including book cradle 25, excluding PC)</b>	L 1990 mm (78.3") x l 1620 mm (63.7") x h 1840 mm (72.4")
<b>TOTAL WEIGHT (including book cradle 25)</b>	310 kg (683.4 lbs)
<b>ELECTRICAL POWER</b>	220 V – 50 Hz, 110 V – 60 Hz 300 VA max
<b>OPERATING TEMPERATURE</b>	Between 10°C / 50°F and 30° / 86°F
<b>CERTIFICATIONS</b>	CE / FCC part 15 conformity Low voltage electrical safety EN60950 radioelectrical disturbances EN55022, EN61000-3-2, EN61000-3-3 electromagnetic immunity EN55024



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